



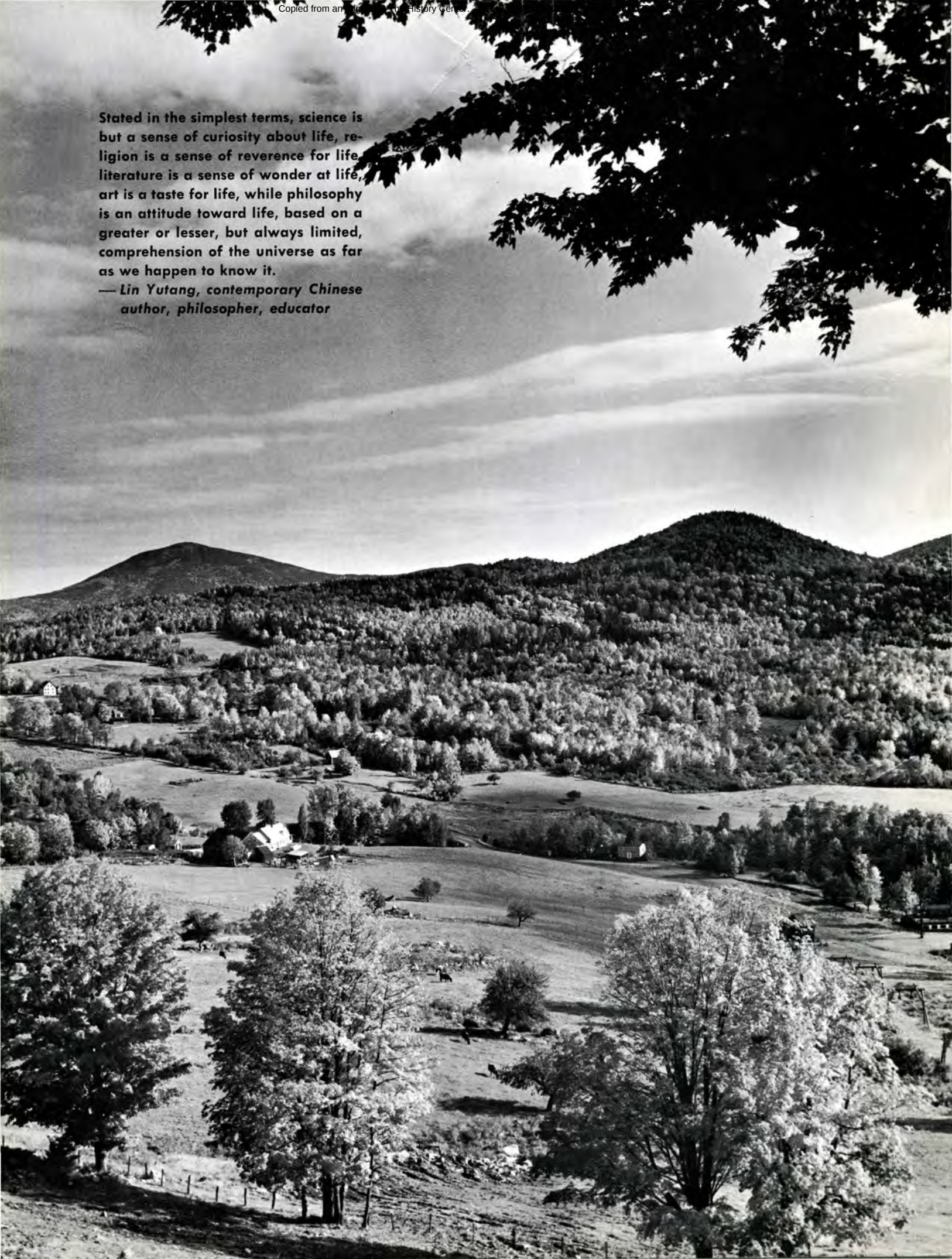
Bob
Poland

THE *Luffkin* **LINE**

MAY-JUNE • 1963

Stated in the simplest terms, science is but a sense of curiosity about life, religion is a sense of reverence for life, literature is a sense of wonder at life, art is a taste for life, while philosophy is an attitude toward life, based on a greater or lesser, but always limited, comprehension of the universe as far as we happen to know it.

— *Lin Yutang, contemporary Chinese author, philosopher, educator*

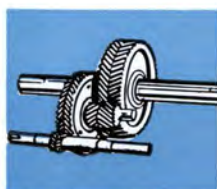




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OIL FIELD PUMPING UNITS THE *Lufkin* LINE GEARS FOR INDUSTRY



MAY • JUNE, 1963
Volume 38 Number 3

Published to promote Friendship and Good Will
with its customers and friends and to advance the
interest of its products by the Lufkin Foundry &
Machine Company, Lufkin, Texas.

Virginia R. Allen, Editor

GULF COAST ISSUE

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COVER: Photo by Peter Gowland, Santa Monica, Calif.

OPPOSITE PAGE: Peaceful Valley of Jackson, New Hampshire
—Dick Smith Photo, No. Conway, N. H.

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TRAILERS FOR EVERY HAULING NEED



THIS is the oldest schoolhouse in the United States. Built of hand-hewn red cedar clapboards, it was erected in the early 1700's. Flowering vines of flame-colored blossoms soften and hide the stark lines of the ancient house

Florida State News Bureau Photo



Lure of St. Augustine

By Charles F. Wettach

DOWN on the east coast of Florida, basking in the semitropical sun, there's a city which is one of the most fascinating spots in America. This is only natural, for St. Augustine, Florida, is the oldest city in America.

To see the city, many visitors trade their cars for picturesque surreys with fringe on top, drawn by horses which seem proud to be a part of this world of long ago.

The most appropriate place to start exploring the venerable city is probably right in front of the rugged stone portals known as the City Gates. For more than a century-and-a-half they have welcomed visitors to the salt-water lagoon called Matanzas Bay.

Not always were the St. Augustinians the noticeably hospitable and genuinely friendly hosts that they are today. For, early in the 18th century these gates, then made of wood, flanked the main

land entrance to the town. They were the only break in the wall that otherwise completely surrounded the settlement. (The stone pillars which are now seen, were constructed about 1804.) They were therefore guarded zealously, and visitors were regarded with considerable suspicion.

The early guards of the City Gates, when not watching for hostile Indians or foreign invaders, would catch up on their sleep in the red-cedar building a short distance down St. George Street. They say that this delightful building, erected with the aid of hand-hewn cedar clapboards in the middle 1700's is the oldest wooden school house in the United States. The school room with its life-size wax children and teacher, dressed just as they were when school was in session more than a century ago, is most interesting.

Many excellent examples of Spanish architecture can be seen on St. George Street. The Old



Spanish Treasury, on the corner of St. Augustine's narrowest street, is one of the finest that camera enthusiasts could possibly select. Inside, its furnishings of priceless antiques and old paintings, take one back a hundred years. The coin collection in the Old Treasury's strong room includes coins dating back to 1483.

Speaking of collections, The Lightner Museum of Hobbies is unique, even from the outside. Its design is an exotic combination of Spanish and Moorish architecture. Each visitor is almost certain to discover at least one collection or hobby which excites his imagination and arouses his complete enthusiasm. There is everything from musical instruments, ladies stockings of long ago, hand-cuffs, and tea-bag tags . . . to mustache cups!

The Oldest House in America's oldest city was constructed with hand-hewn beams and that durable native shell rock, coquina, about 1703. The site, however, has been occupied since early in the 1600's. To step inside its door is to step back into the days when St. Augustine was a Spanish colony.

This most inviting dwelling is overflowing with century-old Spanish heirlooms. Attractively-costumed girl guides enhance the loveliness of the picturesque patio and well in the adjoining authentically-landscaped colonial garden.

AMERICA's oldest house is owned by the St. Augustine Historical Society and exhibited as a house museum accurately depicting life in early colonial times. The present house with its native coquina walls and hand-hewn beams was constructed about 1703

St. Augustine & St. Johns County, Chamber of Commerce Photo



CASTILLO de San Marcos National Monument. Guns were once brought up this ramp to the "ter-replein" or fighting deck

St. Augustine & St. Johns County, Chamber of Commerce Photo

Potter's Wax Museum is occupied by such well-known personages at Rembrandt, Shakespeare, Franklin, Beethoven and Queen Isabella. These wax figures are life size, and the result of incredible painstaking research and effort. All of the clothing, for example, was designed and made by the costumers for the Court of St. James, the world's greatest. And the hair is human hair which has been put on one strand at a time!

St. Augustine's famous old Spanish fort, officially called Castillo de San Marcos National Monument, is just a short walk along the waterfront from the Wax Museum. Built by Spain, almost 300 years ago, this symmetrically-shaped moat-encircled citadel was considered the Atlantic Coast's most important military fortification. Primarily, it served two purposes. It protected Spain's holdings in America, and it provided protection



THE Alligator Farm is a tourist favorite—especially at mealtime when thousands of slithering, beady-eyed alligators become a violently-thrashing nightmare

St. Augustine Alligator Farm Photo



for Spanish cargo ships and treasure galleons which followed the Gulf Stream route when sailing home.

Today, visitors are invited to cross the drawbridge so that they may inspect and photograph the innermost secrets of the almost impregnable fortress. The garrison chapel, the old powder magazine with its round-vaulted ceiling and extremely low door, and the deep, dark, damp dungeon, are called to their attention by an efficient National Park Service aide. Long ramp-type stairways lead up to the fort's terreplein (fighting deck or roof) for impressive land and marine views from the frequently-notched parapet.

Across the Bridge of Lions and a little south on Anastasia Boulevard is one of Florida's strangest sights. It's the largest known collection of live alligators and crocodiles in the world. Thousands of slithering, beady-eyed alligators that usually enjoy basking motionless in the Florida sunshine, become a violently-thrashing nightmare at mealtime. It's a good example of snap judgment.

SEVERAL fine attractions in Florida offer visitors the opportunity to see marine animal life first hand. It is an unforgettable experience if one gets to see the porpoises at Marineland of Florida

Florida State News Bureau Photo



SPLASH, the "educated" porpoise smashes through a paper-covered hoop suspended above the water at Marineland of Florida

Marineland of Florida Photo

Some of these alligators are famous, having appeared in the movies and on TV, as well as in the regular exciting shows at the St. Augustine Alligator Farm. The Farm's complete zoo contains such unusual inmates as green monkeys, rare birds, venomous snakes, and giant turtles that weigh over 500 pounds!

About 15 miles south is one of the most spell-binding places on the entire East Coast. Visitors to Marine Studios, at Marineland, are fascinated by the deep-sea life which swims unconcerned in the two giant outdoor aquarium tanks. Their every movement can be continuously observed—and photographed—through the more than 300 underwater portholes as they live harmoniously together, just as they do in the open sea.

Mealtime here is exciting too, for a daring underwater diver gives personalized service as giant sharks, deadly barracudas, exceedingly dangerous moray eels and other unpredictable denizens of the deep pass menacingly close.

But the most exciting moments of all, take place in Porpoise Stadium when the Trained Porpoise Show gets under way. One of the giant porpoise pupils rises out of the water and soars through a huge paper-covered hoop suspended high above the water. Another star porpoise athlete makes a thrilling skyward leap that takes his nose to the end of a 16-foot-high jump mark. Others play basketball and football and ring their own school bell.

They're all apt pupils of Marine Studios' Porpoise School. It is said that these deep-water mammals learn very rapidly and do a good job of retaining their knowledge. The newest feature, however, is a performing pilot whale!

All in all, there's no place quite like St. Augustine.



MOBY Dick, Marineland of Florida pilot whale, gets a quick medical examination. It's all part of the act at the marine attraction located between St. Augustine and Daytona Beach

Florida State News Bureau

STAFF diver at Marineland of Florida hands fish to the friendly and gentle porpoises at mealtime. They never would harm him, but sometimes nudge him so enthusiastically for a fish that they send him sprawling to the oceanarium floor

Marineland of Florida Photo





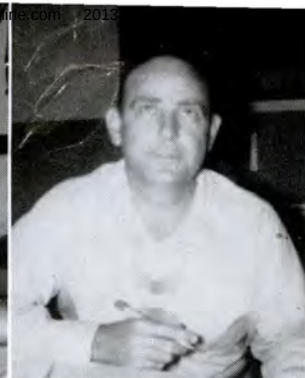
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Jackson, Mississippi



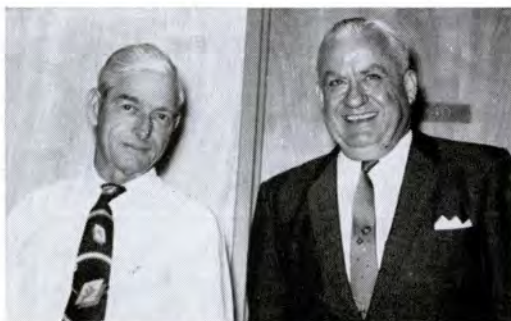
JACK McGOULDRICK
Atlantic Refining Co.
Lafayette, Louisiana



JACK GOODWIN
Larco Drilling Co.
Jackson, Mississippi



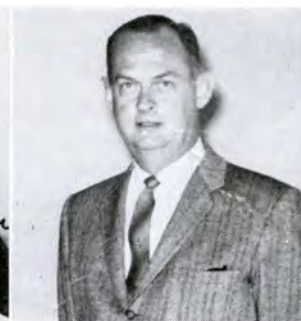
Left to right: W. W. TROUT, President, Lufkin Fdy. & Mach. Co., Lufkin;
CAPTAIN FORD and PAUL GAUTREAU, both of Slade Towing Co., Orange,
Texas; GENE TATE, Lufkin Fdy. & Mach. Co., Lufkin; DON HAUPFAUER,
Livingston Shipyard, Orange; JOE RANDOL, Lufkin Fdy. & Mach. Co., Houston



JOEL BATTLE, left;
RALPH ROACH, both with Texaco, Inc.,
Houston, Texas



BOB TISSING
Humble Oil & Ref. Co.
Houston, Texas



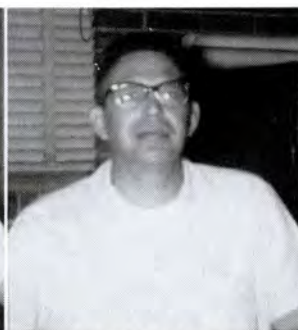
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Houston, Texas



RAY STEVENS
Texaco, Inc.
El Campo, Texas



TED R. MOORE
Cities Service Oil Co.
Lafayette, Louisiana



J. R. ALEXANDER
British American Oil Prod. Co.
Lafayette, Louisiana



CHARLES SEGNA
Standard of Texas
Houston, Texas



HOLLY BIRD, left,
CHUCK STEWART, both with Sunac
Petroleum Co., Borger, Texas

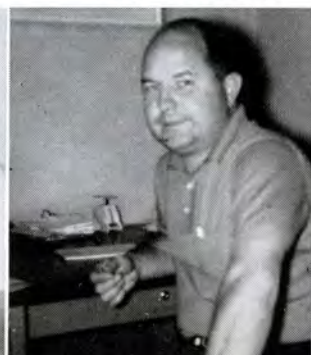
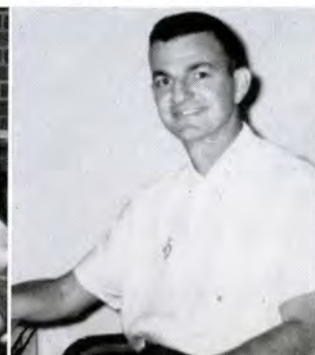
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Lafayette, Louisiana

GEORGE T. MURCHISON
Southwest Gas Prod. Co.
Lafayette, Louisiana

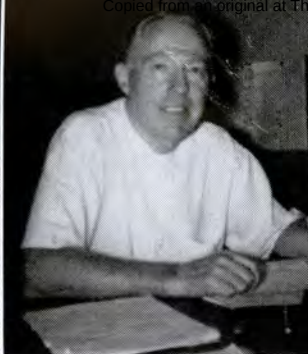
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Lafayette, Louisiana





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I. D. ELLIS
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Lafayette, Louisiana



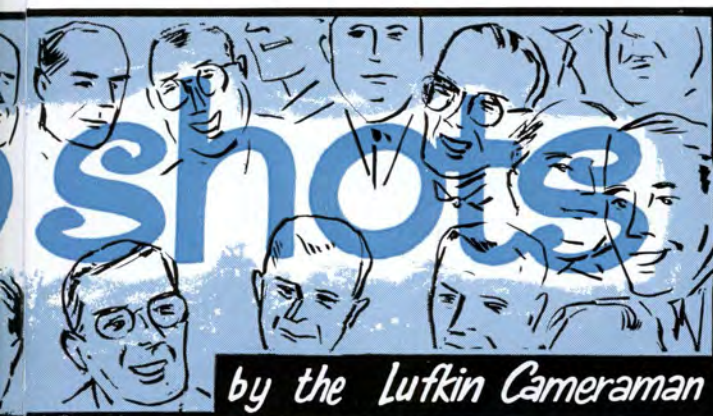
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Lafayette, Louisiana



DICK WHALEY
Atlantic Refining Co.
Lafayette, Louisiana



SAM HUNT
Texaco, Inc.
Columbia, Mississippi



Left to right: L. A. LITTLE, Vice-Pres., Lufkin Foundry, Lufkin; W. H. MINER, Lufkin Foundry, Houston; BAYO HOPPER, Lufkin Foundry, Lufkin; BILL TRIBBLE and JIM COATES, both with Phillips Chemical Co., Houston; W. T. LITTLE and R. L. POLAND, both with Lufkin Foundry, Lufkin.



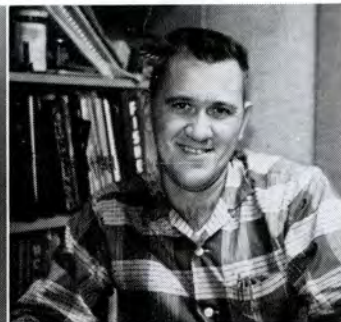
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Guymon, Oklahoma



WAYNE ALLEN
Phillips Petroleum Co.
Guymon, Oklahoma



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Freer, Texas



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Houston, Texas



Front row, left to right: **JOE VAN BENTHUYSEN**, **MUNGER BALL**, both with Sabine Towing Co., Port Arthur, Texas; **W. W. TROUT**, President, Lufkin Foundry; **CHARLES W. MOORE**, retired, American Bureau of Shipping, Beaumont, Texas; **ED MORGAN**, Phillips Chemical Co., Pasadena, Texas.
Second row, left to right: **J. B. HOPPER**, **GENE TATE**, **BILL LITTLE**, **R. L. POLAND**, all with Lufkin Foundry, Lufkin; **JOE RANDOL**, Lufkin Foundry, Houston.



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Texaco, Inc.
Houston, Texas



JOHN FLOETER
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H. E. KELLEY
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CHARLES PERILLOUX
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El Campo, Texas



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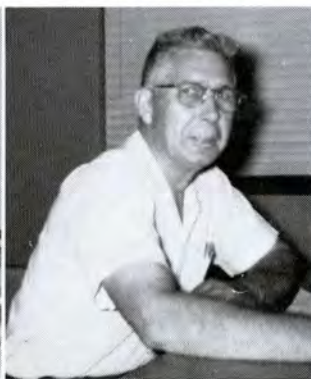
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Natchez, Mississippi

J. R. BLACK
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Natchez, Mississippi

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Houston, Texas



JIM YARBROUGH
Humble Oil & Refining Co.
Houston, Texas



DOUG RATLIFF
Tidewater Oil Co.
Houston, Texas



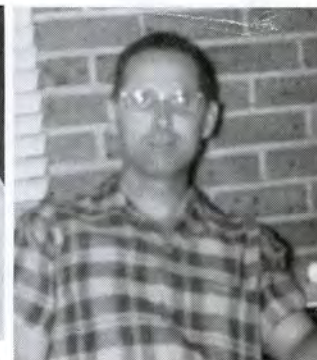
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Beaumont, Texas



FRANK NOLEN
Texaco, Inc.
Houston, Texas



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HENRY R. SPEYRER
British American Oil Prod. Co.
Lafayette, Louisiana



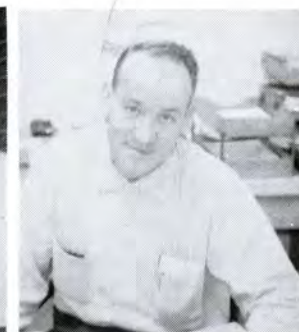
GEORGE WALKER
Gulf Oil Corp.
Luling, Texas



BOB STRICKLIN
Sun Oil Co.
Freer, Texas



C. L. COX, left, Sinclair Oil & Gas Co.; **W. E. BOYD**, British American Oil Prod. Co., Lafayette, Louisiana



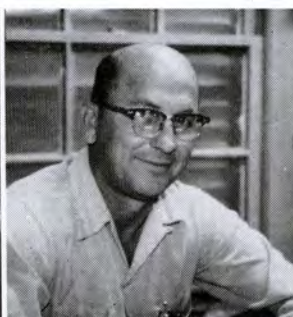
BOB WINK
Gulf Oil Corp.
Luling, Texas



GLEN CAIN
Texaco, Inc.
Columbia, Mississippi



EARLE WRIGHT
Texaco, Inc.
Houston, Texas



WAYMON BRUMBLE
Texaco, Inc.
Freer, Texas



DON HARLAN
Texaco, Inc.
Houston, Texas



ROY FLY
Gulf Oil Corp.
Houston, Texas

TRAVIS BROWN
Texaco, Inc.
El Campo, Texas



BILL SHROPSHIRE
Sam Harrison Oil Co.
Houston, Texas



DICK HOLLY
General Crude Oil Co.
Houston, Texas



CLEM FAIN
Texaco, Inc.
Houston, Texas



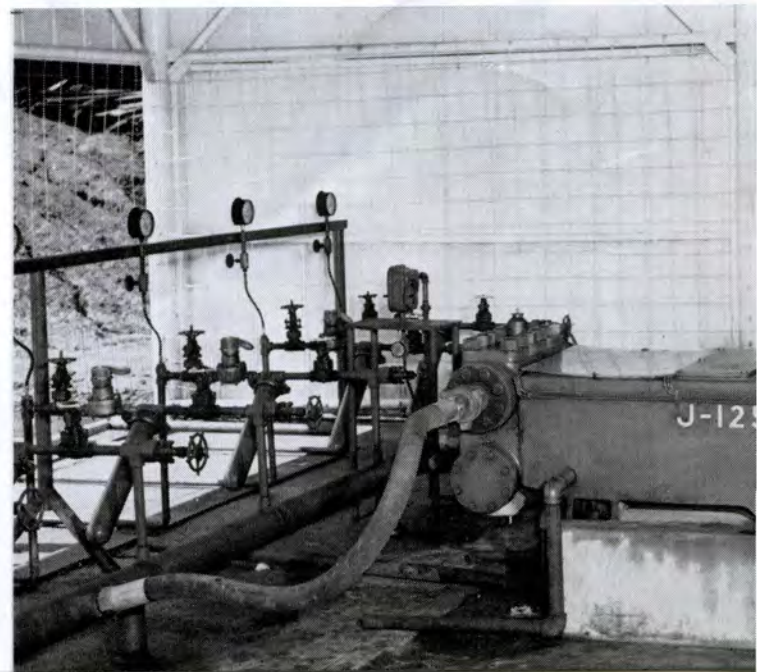
A. R. COTTEN
Sun Oil Co.
Beaumont, Texas





LUFKIN INSTALLATIONS

- 1 LUFKIN C-114D-143-64 Unit, Cities Service Oil Company, Oil City, Louisiana.
- 2 LUFKIN RS-3622 Marine Reverse Reduction Gear being installed on "Battler" tug at Bludworth Shipyards, Houston, Texas. Tug is owned by Port Everglades Towing Company of Florida.
- 3 LUFKIN H-2165 Gas Engine directly connected

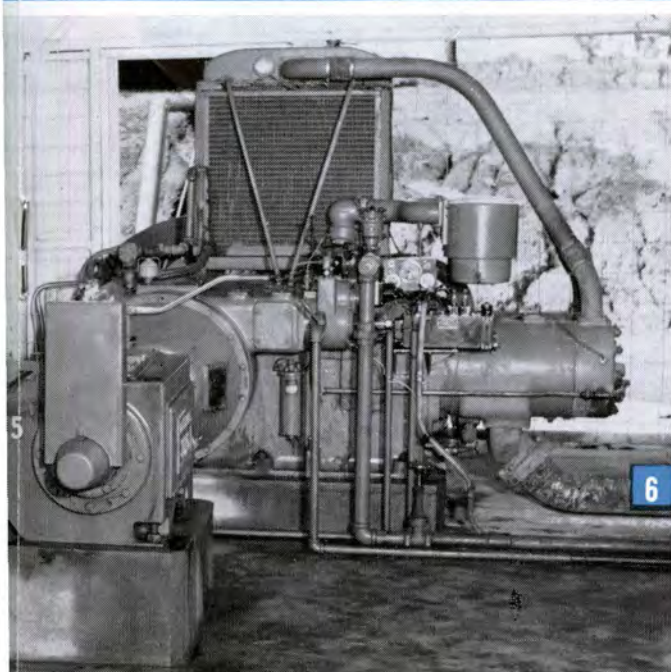




2 3

to triplex pumps for waterflood installation in Central Texas.

- 4 LUFKIN M-456D-253-144 Unit, Atlantic Refining Company, Magnolia, Arkansas.
- 5 LUFKIN M-456D-304-144 Unit with LUFKIN H-795-CCW Gas Engine on installation in Mississippi. Gas Engine fits compactly between gearbox and samson post.
- 6 LUFKIN H-2165 Gas Engine directly connected to triplex pump for waterflood installation in North Texas.
- 7 TWO LUFKIN M-456D-305-168 Units, Southeast Bradley "A" Unit Tract M-12 in foreground, L-12 in background, Mobil Oil Company, near Bradley, Oklahoma.





HARRELL BALLENTINE ... President



JOHN BALLENTINE ... Secretary-Treasurer

HOW GREEN IS *Ballentine's*



H. Q. RICHMOND ...
field produce purchasing for southern states

IN THE northwestern corner of Arkansas near Van Buren, made famous as the home of Bob Burns, the late comedian, and his Bazooka, is a quiet, pleasant valley. The land in this valley is dark and rich and it produces verdant vegetables for America's food tables.

Just a few miles northeast of Van Buren is the little town of Alma, Arkansas. Although Alma may be classified by maps as a "small town," there's big business going on there under the sponsorship of Ballentine Produce, Inc.

It was one of those "happen so" things that started Harrell Ballentine, President of the company, in the produce hauling business.

Back in 1937, when jobs and income were scarce, Harrell had a friend who was about to lose a truck. He told his friend he would take the truck and complete the payments on it. They agreed that in the event Harrell sold the truck, he would divide the proceeds with his friend. That was the beginning of Ballentine Produce, Inc.



ONE of Ballentine's new LUFKIN refrigerated vans with foam-in-place insulation

VALLEY...

Having been born and reared in Alma, Harrell knew the value of the farming land in that area as well as the potential market for the vegetables it produced. His first truck run was between Alma and Kansas City during the summer months hauling fresh produce, and during the winter months, he hauled coal from Fort Smith to southern Missouri.

At the end of two years, Harrell had earned enough profit to consider enlarging. In 1939, he bought a new trailer, and then his fleet consisted of one bobtail truck and one tractor-trailer.

About this time, Herman Ballentine, his brother, joined Harrell and they pooled their energies to keep the business growing. The brothers would load the bobtail truck into the produce trailer and drive from Alma to the vegetable-producing valley of Texas. There they would load both units, and both drivers would head for their various destinations.

Following World War II, Ballentine Produce, Inc., began to grow quickly, and it was necessary for the Company to purchase modern equipment to stay competitive. In 1946, Harrell Ballentine

bought his first insulated bunker and blower trailers.

Since the business was getting more complex, the Ballentine brothers divided the responsibilities. Harrell, the President, began spending his time and efforts on the 1000-acre truck farm near Alma, and in purchasing other produce from throughout the United States. Herman, Vice President, devoted his full time to purchasing produce throughout the southern states. Assisting him in the purchasing of produce is H. Q. Richmond. The trucking equipment and its operation became the responsibility of another brother, John Ballentine, Secretary-Treasurer.

Harrell Ballentine Farms produce spinach, mustard greens, cucumbers, cantaloupes, sweet-corn and soy beans on the land near Alma. They produce green beans and blackeyed peas in the Texas valley.

Ballentine Produce, Inc. Transportation department operates in 31 states hauling exempt commodities and has authority in 11 states to haul frozen vegetables and fruit.

Recently the Ballentine company added to their fleet eight new Lufkin all-aluminum refrigerated vans with foam-in-place insulation. Lufkin is happy to have this Company and the men who operate it as its friends.

LOUISIANA'S



AN observation tower atop the state capitol affords a view of the Mississippi River and the many sea-going ships that come up as far as Baton Rouge

"SUGARLAND" road is dotted with small cemeteries with most of the graves above ground. This is because the water level in this country is very high; dig almost anywhere for a couple of feet and you will strike water



By Jack B. Kemmerer

THE huge blackened kettles bubbled musically over the open fires, giving off a steamy sweet fragrance as the yellowish-brown mixture in the pots became thicker and darker. A silent, restless circle of men and women surrounded the kettles, watching intently as if their very lives depended on it. In a very real sense, they did.

At long last, one of the watching men, M. Etienne de Bore, owner of the kettles and the Louisiana plantation on which they cook, took a long-handled spoon and strode to the nearest kettle. Thrusting the spoon deep into the bubbling black mixture, De Bore stirred briskly for a few minutes and then stooped to examine the kettle's contents more closely.

"It's granulating; it's granulating," he yelled excitedly.

This scene took place in 1795 and its successful ending changed Louisiana's history. Planter Etienne de Bore and his neighbors were desperate. Until this moment they were farmers without a crop. They had planted wax myrtle, tobacco and indigo; each crop had failed. They knew they could grow sugar cane in the moist, rich soil along the Mississippi but of what value was the cane.

THE sugar crop is "blessed" each year before the harvest begins

SUGARLAND



LYING on the west bank of the Mississippi, below Baton Rouge, are many old plantation homes. This is Oak Alley, so named because of the long alley of huge live oak trees leading up to the house. The River Road lies some 300 yards from the house and is reached by the famed Oak Alley which is composed of a double row of live oaks, 14 to each side



MANY small churches dot the roadside along the River Road to New Orleans

They had not been able to refine the sweet juice stored in the thick stalks. Now their problems were solved. They had a crop that this land would produce in large quantities and they could now reclaim the juice.

From this early beginning arose Louisiana's Sugarland, long-time heart of American cane production, along and near the Mississippi River. With the great wealth sugar produced went an even greater manner, a bountiful existence revolving around the white-columned plantation mansions that rose along the great waterway of the South—the Mississippi.

The warm, moist air was filled with the fragrance of magnolias and carefree laughter. The river, bearing an occasional steam packet, flowed serenely to the Gulf. One could travel from Baton Rouge to New Orleans, more that a hundred miles along the river, and never be out of sight of cultivated ground and only rarely out of sight of an opulent mansion.

Those were years of glory and graciousness—of lovely homes rising proudly from their sheltering groves of oaks and magnolias, with peacocks lazily preening their feathers in the shade. Planters journeying down to New Orleans by steamboat amused themselves by tossing silver dollars at the bubbling white wake of the great paddle wheels. It was wealthy land and an extravagant one. Life moved slowly but surely. This was the South and Louisiana's Sugarland on the Mississippi one

hundred and more years ago. It was built namely on one crop—sugar cane.

Today, sugar is still king in this Louisiana country; in recent years all time records have been set in cane production. From a long, twin-spread of black land stretching more than a 100 miles along both sides of the river, sugar pours in a greater flow than ever before. For many months of the year the bamboo-like stalks of cane create jungle-like fields, and always the rich aroma of cane juice lies over the moist earth.

Today the Mississippi still flows to the Gulf—but at a faster pace. Oil tankers, barges and cargo ships churn its waters. Giant industrial plants and bustling commercial centers line its broad levees. While a few of the oldtime planters or their descendants still have the great plantation homes, most of them are gone or in ruins and no longer carry on as the center of a cane-growing unit. Sugar production has become mechanized as an agricultural-industrial enterprise.

Sugar, perhaps more than any other food, plays a highly important role in the daily life of every individual, and today the world consumes more of the sweet stuff than it ever did. The average American uses about a hundred pounds a year, and the United States annually consumes a fifth of the entire world supply.

The bamboo-like cane must have lengthy periods of warm sunshine, abundant rainfall, and proper drainage—enough water but not too much. The



THE cane is cut and hauled to local sugar mills for processing



AT the mill, giant cranes feed the cane to grinders where the juice is pressed out, boiled and made into sugar

length of time the stalks stay above the ground determines the sugar content—the longer the better. Yet, if they remain too long, a hard freeze may destroy the crop.

For the most part, today's harvesting and refining is highly mechanized although in this area alone 16,000 men pour into the fields during the peak harvesting months.

Mechanical harvesters, each doing the work of about 75 men, slices the cane off evenly with the ground, severs the tops, and deposits the stalks neatly on the field. The next day, flames are used to burn off the foliage and mechanical loaders deposit the cane on carts to be hauled to the refineries.

Mechanization has taken over the refineries, too. Here, huge knives slice stalks to bits, feeding it into thick rollers for extracting the juice. Lime is added to help precipitate impurities, and the sticky juice flows into clarifiers where the foaming liquid is rolled about at some 190 degrees F.

The cloying richness of the cane is everywhere, mixed with the hissing and pounding of giant machinery. In skyscraper evaporator towers the juice becomes a thick syrup, then crystalized in vacuum pans.

Swiftly revolving screens, known as centrifugals, separate the molasses, and now the raw sugar crystals are washed, melted in water, treated with chemicals, filtered through animal bone char, and then finally re-crystalized. Now the familiar white sugar of our dinner tables reaches the revolving drumsdryers as the final step before packaging.

Cane is planted with slips, each containing an "eye" or bud-joint. Planting takes place in the late summer and fall and soon after long, light-green shoots push up through the dark moist earth. Growing thickly, the heavy, waving green mass, spreading as far as the eye can see, looks like a huge lake by the following July. About mid-October it is ready for the harvest and Louisiana's Sugarland populace again rushes into the fields to harvest about 200,000 acres—accounting for more than three-fourths of the United States' mainland sugar production.



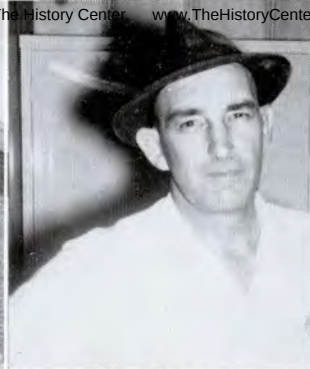
BEHIND the vast sugar cane fields on the west bank of the river lies the mysterious Bayou Country and its immense swamps of cypress and tupelo trees



BOB FARRIS
Fort Stockton, Texas



NOLAN TIDWELL
Tidwell Paving
Midland, Texas



DON MANGUM
Gardner Denver Co., Mayhew Division
Dallas, Texas



C. M. MORENC
Huckman Trucking Co.
Corpus Christi, Texas



J. D. POLLOCK
Foremost Dairies
Dallas, Texas

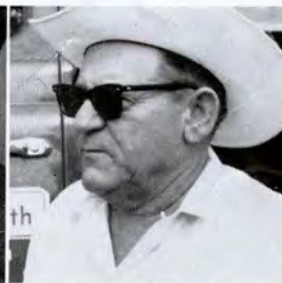
Here and There among Trucking Folk



CLARENCE MILLER
Foremost Dairies
Dallas, Texas



TEX SMITH, left,
JACK GOODWIN, Texas Trucking &
Leasing Corp., Dallas, Texas



TOMMY BIGGS
Biggs Lease Trucking
Houston, Texas



CHARLES R. EVANS, left, Charles Evans
Trucking Co., Austin, Texas; **NORMAN**
SCHUETZ, Sahm & Schuetz Trucking Co.,
New Braunfels, Texas.



E. V. VOSS
Jacksonville, Texas



JOHN WRIGHT
Kroehler Manufacturing Co.
Dallas, Texas



GEORGE STATON
Staton Co.
Jacksonville, Texas



CHARLES ENGLAND
E & E Manufacturing Co.
Cedar Hill, Texas



CLIFTON SAHM
Sahm & Schuetz Trucking Co.
New Braunfels, Texas



BILL COOPER
Permian Metals, Inc.
Odessa, Texas



ED HUCKMAN
Huckman Trucking Co.
Corpus Christi, Texas



ROBBIE BIGGS
Biggs Lease Trucking
Houston, Texas



MR. AND MRS. LOYD SIMPSON
Durant, Oklahoma



CLIFF GLASGOW, left, Lufkin
Trailers, Dallas, Texas; **WALT**
CLEMONS, Terrell, Texas

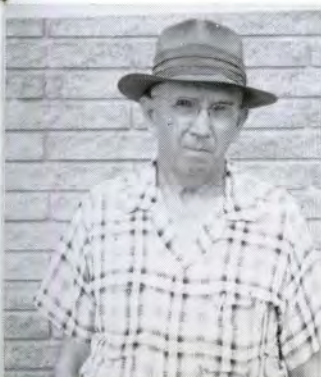
FRANK STEPHENS
Frank Stephens & Son
San Antonio, Texas

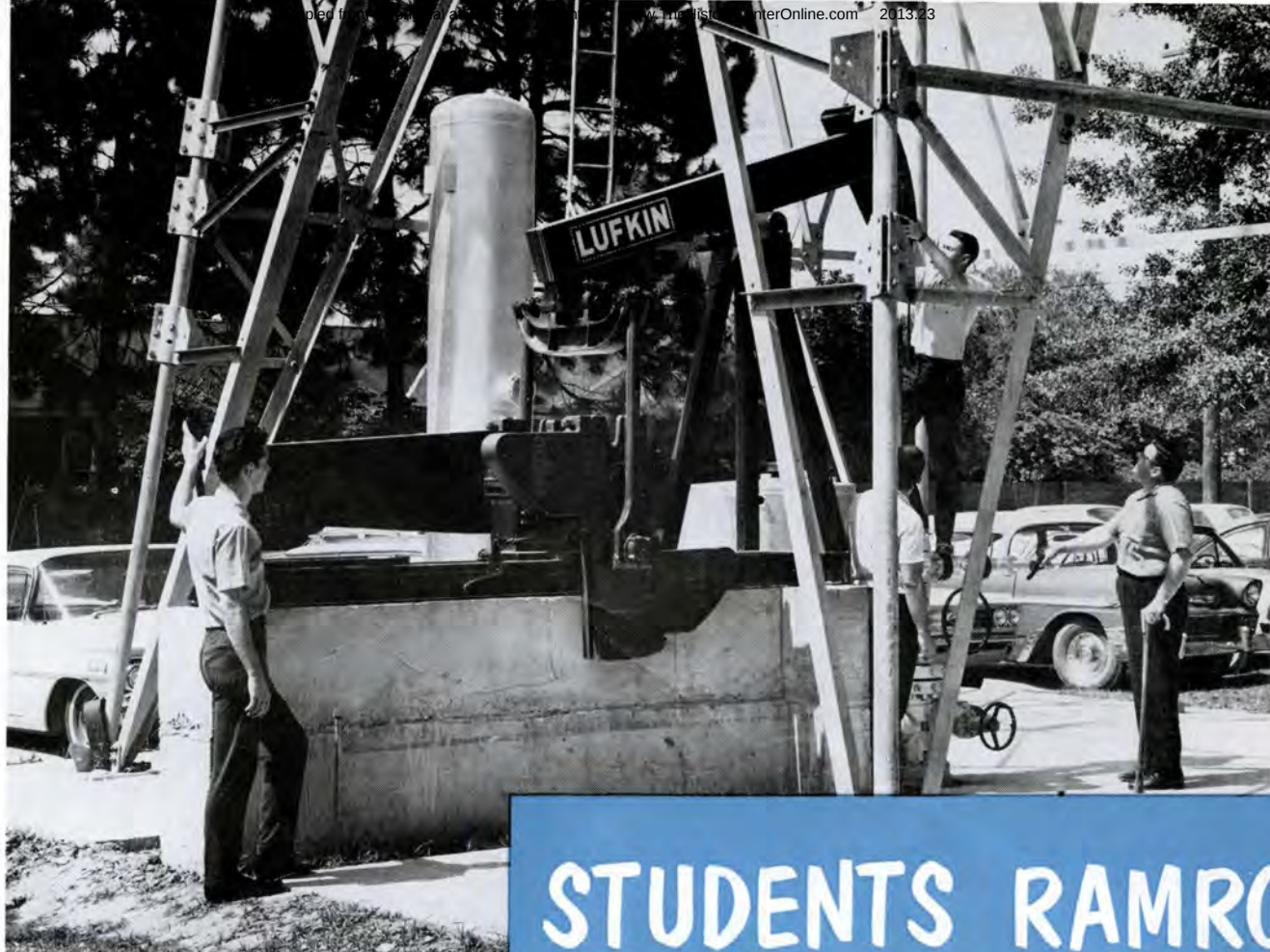
HARVEY WELLS
Wells Concrete
Fort Stockton, Texas

ANGUS VOSS
A & B, Inc.
Odessa, Texas

FRED WILSON, Fred J. Wilson
Oilfield Transportation, Inc.
Houston, Texas

C. P. CARDER
Foremost Dairies
Dallas, Texas





STUDENTS at University of Southwestern Louisiana look over their success with a dual completion for classroom studies

STUDENTS RAMROD DUAL COMPLETION

IT ALL started with a donation from the Lufkin Foundry and Machine Company.

In 1959, the Department of Petroleum Engineering at the University of Southwestern Louisiana received as a gift a Lufkin Pumping Unit. The full scale field unit and accessory equipment was modified to make it flexible and adaptable for experimental work.

The faculty-designed installation was to be incorporated into the petroleum production laboratory facilities of the university. Due to the lack of necessary funds, the pumping unit was not installed, but sat idle near the engineering building for several years.

In 1962, the student section of the Society of Petroleum Engineers at the University discussed the installation and decided that it would be a valuable addition to the Department's physical plant, and would benefit future petroleum engineering students.

Undaunted by an estimated \$30,000 budget requirement and by the lack of school funds, the ac-

tive and talented student group tackled the problem as a club project. Spurred into action by an ingenious group of senior students, they started the project by re-designing the original installation. They expanded the modest original design into a fully instrumented dual completion with a pumping and a gas lift system completed in a 1,000-foot well perforated for production in a fresh water sand. Their design incorporated a production derrick as a permanent installation together with all the necessary accessory equipment to completely re-work the well and all the dual strings when necessary.

The installation designed by the students included separator and test tank facilities, and all necessary instrumentation to make both the pumping and the gas lift system suitable for laboratory work.

Once this design was completed, the group—possessing more than a normal share of salesmanship—soon sold their ideas to the oil industry and service company personnel of the area. The stu-

dents and school officials were overwhelmed by the instant and generous response of the area oilmen.

Their story quickly spread through the Oil Center and the surrounding area. Before long, calls began pouring in from companies and people offering services and materials for the project. Being assured of the necessary services and materials, the students organized themselves into a supervisory group and shifted the operation into a high gear.

Before long the campus took on the appearance of a full fledged wildcat location. Rig movers, rig builders and oil field equipment poured onto the campus under student direction. The well was spudded and the drilling was supervised by student personnel. The entire operation was coordinated by the students from the beginning right through the process of securing the necessary permits to drill a well, to move the heavy equipment into the city limits and the coordination of efforts of the diversified service companies who offered the equipment and labor necessary to complete the project.

A nine and seven-eighths-inch hole was drilled to 1,000 feet. A string of seven-inch casing, donated by a local company, was cemented in place after necessary logs of the formation had been secured. The rig and related drilling equipment moved out, and the rig building crew moved in and erected a production derrick and associated facilities.

The students then constructed the forms necessary to pour a slab around the entire base of the structure and a foundation was erected high enough to work above the dual tree. The group refinished the pumping unit and installed it in place. They are presently in the process of running the dual string for the completion of this operation.

The installation is slated for completion in June. When completed, the pumping installation will be powered by an electric motor equipped with watt meter and necessary instruments to determine input to the installation. Volumetric output will be determined with test tank facilities and related equipment. A dynamometer will be installed to determine the various characteristics of the pumping cycle. The unit and installation will be so equipped that pumping stroke, counterbalance, speed, and other variables which affect the efficiency of the pumping cycle can be varied to illustrate the effect of these variables on the synameter chart.



THESE beauties were candidates for Petroleum Engineering Queen, 1963, University of Southwestern Louisiana in Lafayette

All pumping characteristics and problems will be readily investigated and illustrated with the unit. The gas lift system will be instrumented and completed in such a manner that each installation can produce from perforation below a packer or the liquid level in the annulus can be controlled by shutting off the perforated interval with a wire line tool and allowing the fluid level to be maintained by fluid injection at the surface.

The installation will have a permanently installed unit and traveling block assembly for work-over operations and for maintenance. Several items are still required to complete this project. The students are still attempting to secure a dynamometer and a 5 HP electric pumping unit motor for the installation.

This installation is unique in that it is the only one of its type on a university campus, and it probably is the only operation of this magnitude which has been tackled by a student group.



The Texan was wound up. "Another thing," he said, "in Texas we got the fastest-running dogs in the world."

"Don't doubt it," replied the listener, "the trees are so far apart."

Banker to elderly colored woman turning in her gold: "Auntie, you've been hoarding."

"No, suh, boss, you is wrong," she said, "at least \$20.00 of that is washing money."

"Know what a Phillips Screwdriver is?"

"Nope. What?"

"A jigger of Vodka in a glass of milk of magnesia."

Whoever named it "necking" was strangely ignorant of anatomy.

A wolf decided to take the direct approach.

"Have you ever objected to making love?" he asked.

"Well, I'm afraid that's something I've never done," she answered.

"Oh, you've never made love before?" inquired the disappointed wolf.

"No, never objected."

The curves men view with such delight

Are often kept in drawers at night.

The following is an interesting, if true, story. A southern lawyer applied to the RFC for a loan for a client. The RFC asked for an abstract of title to the Louisiana property involved. The lawyer traced the title back to 1803 and submitted the abstract and application for the loan to the RFC.

He received from the RFC the following letter:

"Dear Sir: We received today your letter enclosing application for your client, supported by abstract of title. Let us compliment you on the able manner in which you have prepared and presented the application. We have observed, however, that you have not chained the titles back of the year 1803 and, before final approval, it will be necessary that titles be chained back of that year. Yours truly,"

The lawyer called his secretary and dictated the following letter to the RFC:

"Gentlemen: Your letter regarding titles received. I note you wish titles to extend further than I have presented them.

"I was unaware that any educated man in the world failed to know that Louisiana was purchased by the United States from France in 1803. The title to the land was acquired by France by right of conquest from Spain. The land came into possession of Spain by right of discovery made in 1492 by a Spanish-Portuguese sailor named Christopher Columbus, who had been granted the privilege of seeking a new route to India by the then reigning Monarch, Queen Isabella.

"The good queen being a pious woman and careful about titles (almost as careful, I might say, as the RFC), took the precaution of securing the blessings of the Pope of Rome upon the voyage before she sold her jewels to help Columbus.

"Now the Pope, as you know, is the emissary of Jesus Christ, who is the Son of God, and God, it is commonly accepted, made the world. Therefore, I believe, it is safe to assume that He also made that part of the United States called Louisiana—and I hope to hell you're satisfied!"

"I don't know why I go out with

her," complained the petroleum engineer. "In the first place, she's too skinny . . . and in the second place, too."

Joe: "Do you know your girl friend has a fellow's picture tattooed on her leg?"

George: "Yeah, and for about a week now I've been trying to get my hands on that guy."

Many girls leave nothing to a man's imagination and everything to his self-control.

A bikini bathing suit is like a barbed wire fence. It protects the property without obstructing the view.

The young city chap brought his auto to a stop before the general store of a sleepy little county seat. There was an old man, quite deaf, basking in the sun, and the urbanite shouted to him:

"I say, Pop, where can I find the court house?"

The old man replied sardonically: "Ain't got none here. Ye got to pick 'em up on the street."

A handsome American soldier stationed in Germany met a beautiful German girl and spent the weekend with her. As he bade her a tender farewell, she speculatively remarked:

"How's about a bit of change as a going-away gift?"

The soldier drew himself up to his full six feet and with great dignity replied: "My dear young lady, members of the Seventh Infantry never accept money from women."

Two new duplicating machines—a mimeograph and a photocopier—were installed in an oil office and placed in the care of one of their more shapely secretaries. This office remained open 24 hours each day because of a research staff working on three shifts. It soon developed that the research boys on the night shift were using the new duplicating machines and leaving the clean-up mess for the day shift secretary.

She complained several times to the office manager who finally posted this sign on the door of her office:

NOTICE

No one shall use the secretary's reproduction equipment without express permission of the office manager.

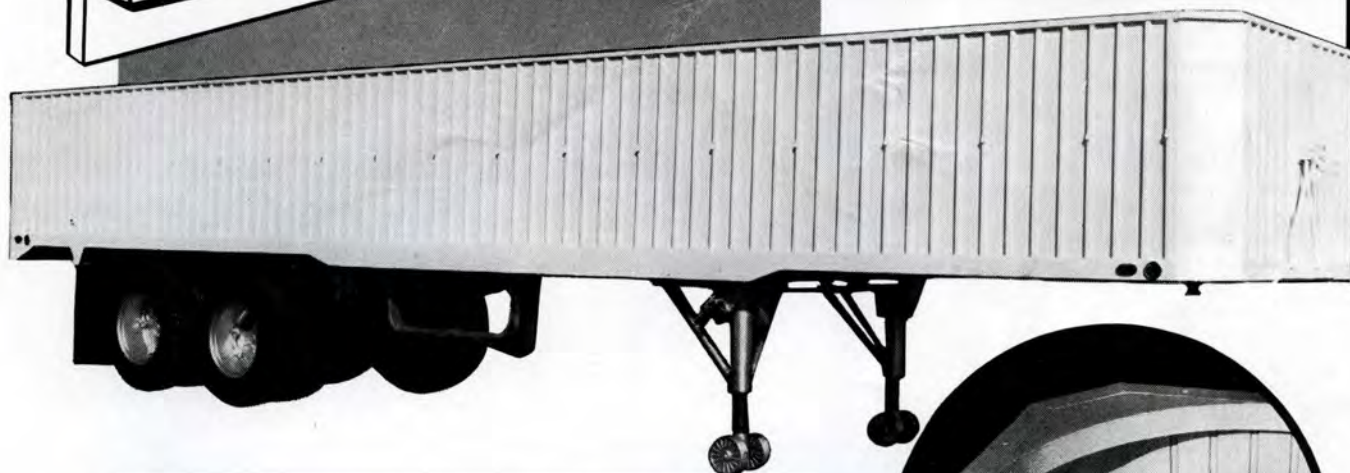
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M-228D-246-74
M-228D-200-74
M-228D-173-74
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M-160D-200-86
M-160D-246-74
M-160D-200-74
M-160D-173-74
M-114D-143-86
M-114D-200-74
M-114D-173-74
M-114D-143-74
M-114D-169-64
M-114D-143-64

KEY TO NOMENCLATURE

M-114D-200-74

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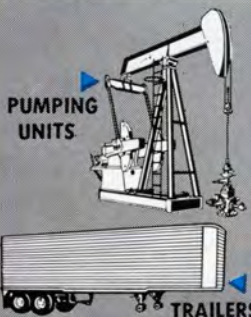
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