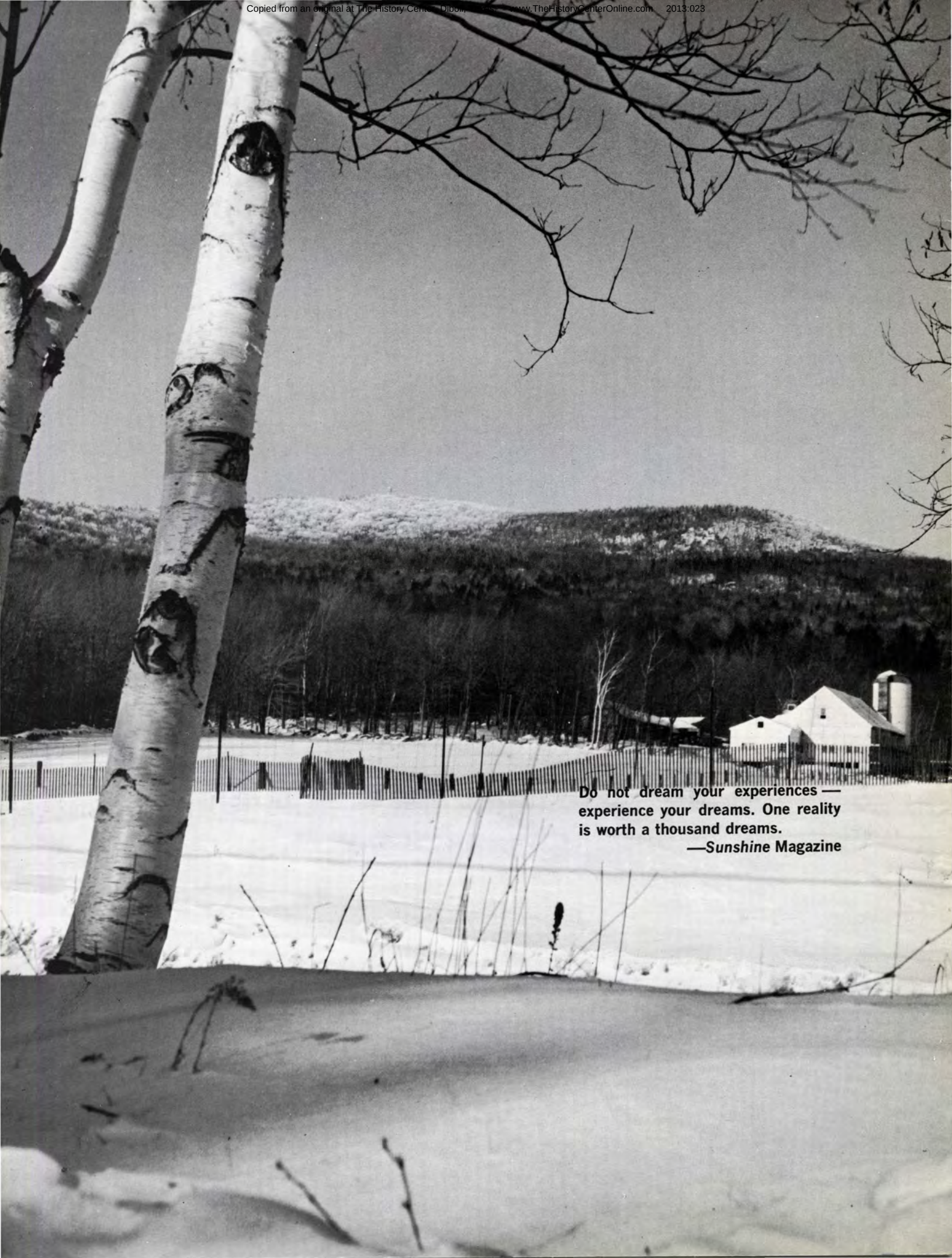




THE *Lufkin* **LINE**

JANUARY-FEBRUARY • 1971



Do not dream your experiences —
experience your dreams. One reality
is worth a thousand dreams.

—Sunshine Magazine

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THE Lufkin LINE

JANUARY • FEBRUARY, 1971
Volume 46 Number 1

Published to promote friendship and good will with its customers and friends and to advance the interest of its products by LUFKIN INDUSTRIES, INC., LUFKIN, TEXAS



Virginia R. Allen, Editor
Carolyn Curtis, Ass't. Editor

EXPORT DIVISION (WESTERN HEMISPHERE) ISSUE

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COVER: Transparency by William Hamilton, Munich, West Germany

OPPOSITE PAGE: Birches, snow and fences near
Peterborough, New Hampshire
—Eric M. Sanford Photo, Manchester, N.H.

CIRCULATION THIS ISSUE 10,527



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MOUNT AVILA cable car affords breathtaking view of Caracas

By CHARLES F. WETTACH

VENEZUELA is a land that's overflowing with fascinations. It's so close—less than three air hours from the United States—yet it's so completely different.

Caracas, the capital, has become quite modern but not by sacrificing any of its rich colonial heritage. And a two-hour DC-3 flight beyond Caracas, by way of Ciudad Bolivar, brings one to the world's highest waterfalls, in the heart of Venezuela's lush unexplored jungle which is described so vividly in W. H. Hudson's *Green Mansions*.

Angel Falls is caused by an underground river rushing out, high up on the sheer precipice wall of Devil's Mountain, to plunge a total of 3,212 feet into the dense jungle below—and that's more than 3,000 feet (15 times) higher than Niagara Falls, or $2\frac{1}{2}$ times higher than the Empire State Building! It's one of the most spectacular sights on earth.

Ciudad Bolivar is a colorful inland port, on the Orinoco River, serving the Guiana Highlands and

VENEZUELA

Land of Contrast

the southern *llanos* or great plains. Founded in 1764, the city was originally popularly called Angostura. The well-known bitters originated here. The 5,507-foot-long \$18 $\frac{1}{2}$ million suspension bridge crossing the Orinoco at this point, has been named the Angostura Bridge. Its 2,336-foot four-lane central span makes it the longest clear span in Latin America. Giant ocean-going freighters come 260 miles upriver from the Atlantic to unload and load cargo at Ciudad Bolivar. Gold and diamonds are often on the outgoing list.

Big things have been happening south of Ciudad Bolivar too. One of the world's major dams now converts much of the Caroni River's might into



CASA NATAL was the home of South American liberator, Simon Bolivar

electricity. The builders of Guri Dam, after overcoming incredible construction obstacles, have created a hydroelectric giant that's one of the largest in the world. It will guarantee those planning heavy industrial projects in this part of Venezuela, that large amounts of power will be available.

Another rapidly developing corner of Venezuela is the exotic *Isla Margarita*, 23 miles off the coast and only 45 minutes by air from Caracas. Lovely natural pearls are not the only treasures found on Margarita Island. The palm-studded scenery—especially the multi-colored tropical sunsets—is some of the best found anywhere; the fishing and skin diving is tops; and the white-sand beaches are irresistible. Margarita is still one of the world's few remaining unspoiled island paradises.

Christopher Columbus discovered Margarita Island—and Venezuela—in 1498. However, a subsequent explorer, probably Alonso de Ojeda, gave the country its musical-sounding name. He called it "Little Venice" when he found the Indians of the Lake Maracaibo area living in huts built on stilts which raised them above the water.



LAKE CANAIMA is southeast of Ciudad Bolivar



DRIZZLE FALLS of the Caroni River is a spectacular sight

The country's capital city of Caracas was founded in 1567. But, in spite of its 400 fascinating years of history, this "City of Eternal Spring" is very modern. Even the *autopista* leading up from the capital's port city of La Guaira, past modern Maiquetia Airport, is one of the finest super-highways in the world.

The impressive multi-million-dollar Simon Bolivar Civic Center with its twin 30-story skyscrapers and underground shopping arcades, is an excellent futuristic example of city planning. Many of the



ANGOSTURA BRIDGE, \$18½ million suspension bridge and the longest clear span in Latin America

city's luxurious hotels are also the last word in modernity and the ultra-modern buildings of University City are outstanding. Modern highrise office buildings and apartment houses contrast sharply with the reminders of colonial Caracas which may also be found.

Yes, in spite of its modern look, the capital city clings tenaciously to many things which perpetuate her glorious past. For example, all should remember that Caracas was the birthplace—and home—of the great South America liberator, Simon Bolivar; and the city's magnificent National Pantheon is his final resting place.

In Caracas one may visit Plaza Bolivar and photograph the beautiful Cathedral which dates from 1595; then the Casa Natal where Bolivar was born and lived as a young man. The museum, next door, is said to contain the world's largest collection of Bolivar relics and mementos. For another excellent reminder of yesterday, one should drive

to the former residence of the Marquis del Toro. It's still a tastefully-furnished Spanish colonial home with fragrant gardens, delightful patios and artistic fountains—even though it's only a few minutes away from modern downtown Caracas.

The golden-domed Venezuelan capitol building, almost a hundred years old, is southwest of the Plaza. Now used only by Congress, it occupies an entire city block. Its collection of historically-significant items includes the nation's venerated Declaration of Independence.

Motoring is very popular in Venezuela, probably because its network of roads and highways is the best in Latin America. A part of the Pan American Highway System, appropriately called the Simon

STILTED HUTS on Lake Maracaibo prompted Christopher Columbus to name the country "Little Venice"





MACUTO BEACH is near La Guaira, the port for Caracas

Bolivar Highway in Venezuela, runs from the Colombian border area to Caracas. Many charming cities and villages are found along the way.

The colonial city of Valencia, almost a hundred miles west of Caracas, was founded by the Spanish in 1555. During the intervening years it has three times served as the capital of Venezuela. Today it is one of the country's leading industrial centers with agricultural products playing an important role in its economy. Historically it is near the site where Venezuela's final battle for independence, the Battle of Carabobo, was fought in 1821. But the city is probably best known for its Valencia oranges and pretty women.

Puerto Cabello, on the blue Caribbean, is the port for Valencia and the second largest seaport in Venezuela. Points of interest include an 18th century fort built to protect the city from pirates; numerous picturesque colonial-styled homes and buildings; The Eagle Monument erected in honor of nine North Americans who lost their lives while fighting for Venezuelan independence; and a modern petroleum-chemical plant (nearby). The area's palm-lined beaches are especially alluring.

The Indian village of Sinamaica is believed to

be one of the settlements which the fifteen and sixteenth-century Spanish explorers found when they discovered "Little Venice" and visited the Lake Maracaibo area. Thatched-roof huts still stand on stilts above the water. But just a few miles away, on the surface of the Lake and along its nearby shores, one now finds a forest of oil derricks—thousands of them! The nation is said to be the third largest producer of oil in the world, and this region the largest oil field on the South American Continent.

Lake Maracaibo, conveniently connected to the Caribbean by a 34-mile-long channel, is about 133 miles long and 74 miles wide, and that leaves plenty of room for a lot of oil wells. Although much of the water is shallow, some of the wells had to first penetrate as much as fifteen feet of water to reach the lake's bottom. The city of Maracaibo, on the west shore of the channel, is Venezuela's second largest city. Its tropical setting has earned for it the name "City of Palms."

The fascinations of Venezuela seem endless . . . an exotic offshore island specializing in romantic palm-fringed beaches and pearls . . . an ocean of fragrant oranges blossoms . . . a beautiful capital city featuring both the old and the new . . . the highest waterfall in the world!



Left to right, GERMAN LOPEZ MESA,
LOUIS S. CREWS, FIDEL RAMIREZ, all with
Tennessee Colombia S.A., Bogota, Colombia



Left to right, ANGEL BRICENO, MARY FORT,
WALFREDO FINOL, all with Lufkin Overseas
Corporation, S.A., Maracaibo, Venezuela



CLINE REED, left, Maracaibo;
HERBERT LINGG, Caracas, both with
Phillips Petroleum Company, Venezuela

Left to right, BILL TROUT, LUFKIN, Lufkin, Texas;
RAY GONZALES, LUFKIN, Anaco, Venezuela; BOB SCHMALHAUSEN,
Texas Petroleum Company, Caracas, Venezuela



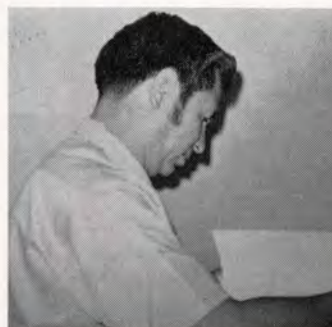
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RAMON ROBLEDO
Amoco Argentina
Comodoro-Rivadavia, Argentina



Snap

by Lufkin


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Phillips Petroleum Company
Morichal, Venezuela



RAFAEL CASAS
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Cia. Shell de Venezuela
Lagunillas, Venezuela



R. D. CORRIE
Cia. Shell de Venezuela
Lagunillas, Venezuela



FERNANDO URREGO
Phillips Petroleum Company
Bogota, Colombia

shots

Cameramen ...



G. A. ROMERO, left, G. PEREIRA
both Compania Shell de Venezuela
Lagunillas, Venezuela



ALBERTO SANCHEZ
Corporation Venezolana del Petroleo
San Tome, Venezuela



THOMAS KEENER
Cooper Bessemer, S.A.
Anaco, Venezuela



ALEX DOBRIN
Mobil Oil Co. de Venezuela
Anaco, Venezuela



Front row left to right, ADOLGO GEE, JOSE PEREZ,
Back row left to right, LUIS MIELINSKY,
ADOLFO GARCIA, REMIGIO GIACOMEL,
BOBBY EVANS
Amoco Argentina, Comodoro-Rivadavia, Argentina



BILL HAMMON
Creole Petroleum Corporation
Quiriquire, Venezuela



CARL RODRIGUEZ
Mene Grande Oil Company
San Tome, Venezuela



FRANCISCO CUPELLO
Creole Petroleum Corporation
Quiriquire, Venezuela



ANTONIO JOSE SUCRE, left,
EMILIO MARINO, Compania Shell
de Venezuela, Lagunillas, Venezuela

HORACIO RODRIGUEZ
Empresa Colombiana de Petroleos
El Centro, Colombia



JOSE BARRETO
Mobil Oil Company de Venezuela
Barinas, Venezuela



ARMANDO IATARELLI
IRE, Buenos Aires,
Argentina



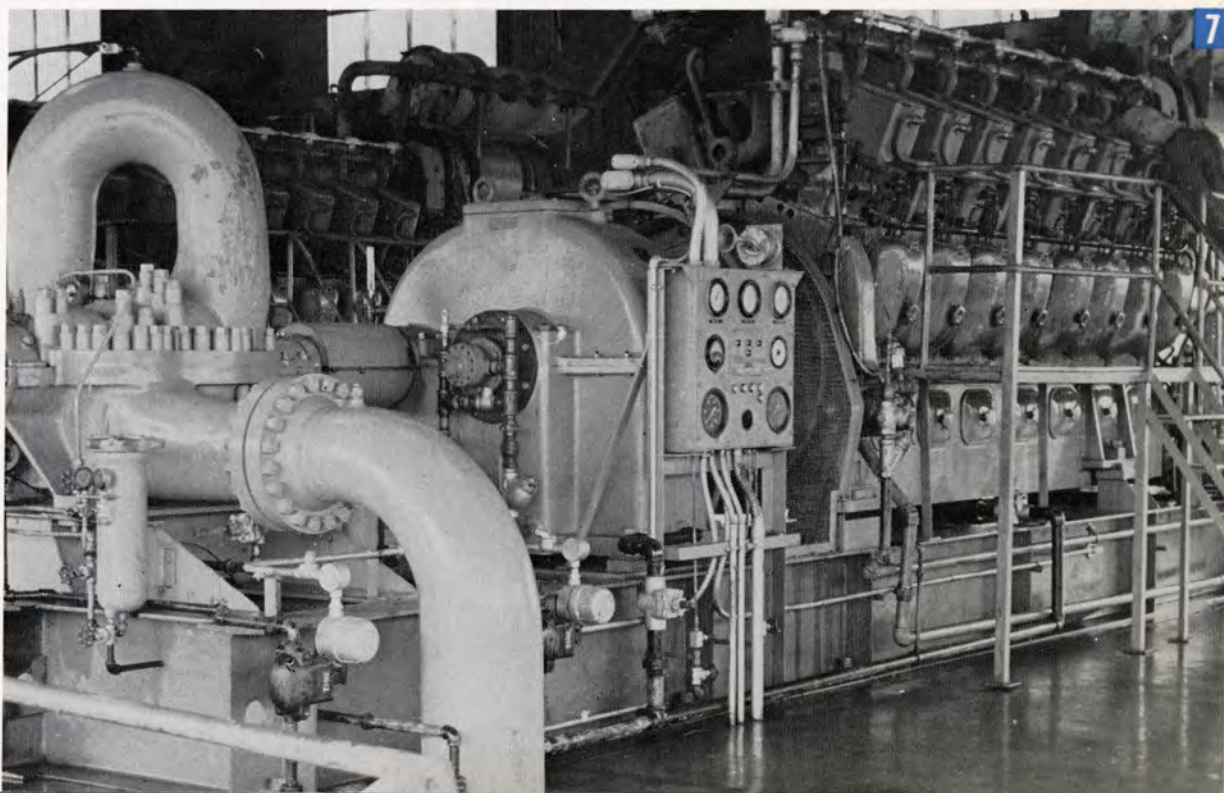
JIM BEAKEY
Colombian Petroleum Company
Tibu, Colombia





LUFKIN in

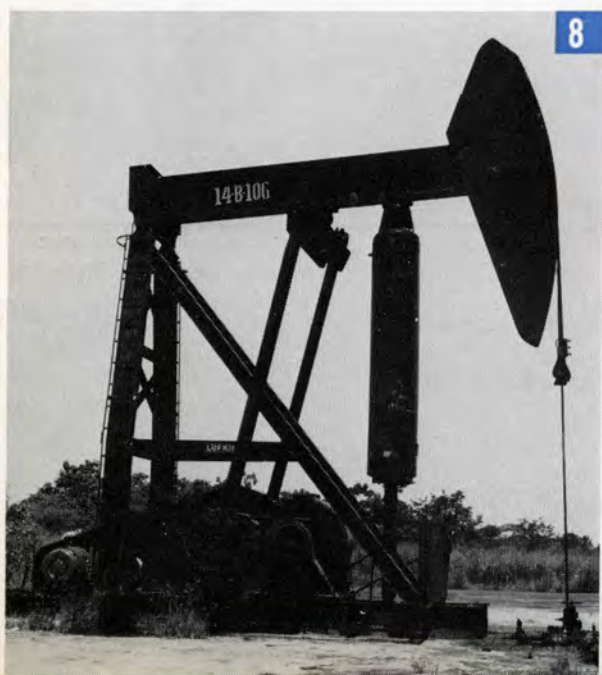
- 1 LUFKIN M-912D-356-168 Unit, Corporacion Venezolana de Petroleo, Barinas, Venezuela
- 2 LUFKIN A-1824D-240-47 Unit, Phillips Petroleum Company, Morichal Field, Venezuela
- 3 LUFKIN A-912D-42.7-144 Unit, Pan American Venezuela Oil Company, Morichal-Jobo Field, Venezuela
- 4 LUFKIN M-320D-25.6-120 Unit, Creole Petroleum Corporation, Jobo Field, Venezuela





Installations

- 5 LUFKIN C-640D-304-120 Unit, Compania Shell de Venezuela, Lagunillas, Venezuela
- 6 LUFKIN C-456D-25.6-120 Unit, Creole Petroleum Corporation, Pilon Field, Venezuela
- 7 LUFKIN N2412A Gear Speed Increaser, Mobil Oil Company de Venezuela, Western Venezuela
- 8 LUFKIN A-1280D-192-42 Unit, Corporacion Venezolana de Petroleo, Boscan, Venezuela
- 9 LUFKIN A-2560D-240-47 Unit, Chevron Oil Company of Venezuela, Boscan, Venezuela





CHARLES BIÉT
Amoco Argentina
Comodoro-Rivadavia, Argentina



LESTER BROCKMAN
Texas Petroleum Company
Bogotá, Colombia



EDMOND TALAVERA
Chevron Petroleum Co. of Colombia
Bogotá, Colombia



JOHN SUTHERLAND
Chevron Petroleum Co. of Colombia
Bogotá, Colombia



HAROLD PERALTA, left, MIGUEL GAZZANEO
both with Mobil Oil Company de Venezuela
Barinas, Venezuela



R. GOODLEY, left, R. H. W. AMBROSE
both with Sinclair & BP Colombian Inc.
Bogotá, Colombia



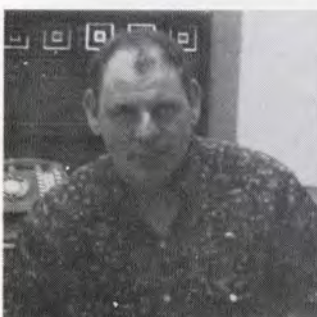
JORGE LONBANA, left
JAVIER PERDOMO, International Petroleum
(Colombia) Ltd., Bogotá, Colombia



ROBERT MAC CONVILLE
Signal Oil and Gas of Venezuela
Maracaibo, Venezuela



BERNARDO EICHNER, left,
CASIMIRO KVEDARAS, C.V.P.
Maracaibo, Venezuela



R. L. SLATON
Texas Petroleum Co.
Anaco, Venezuela



RICARDO ARANA, left,
LUIS ZERPA, Mene Grande Oil Company
Lagunillas, Venezuela



JORGE WHITTY, left,
LUIS RAMOS, both with YPF Argentina
Comodoro-Rivadavia, Argentina

NESTOR RAMIREZ
Mene Grande Oil Company
San Tome, Venezuela

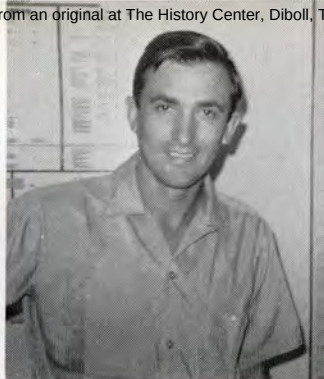
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Caracas, Venezuela

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C.V.P.
Maracaibo, Venezuela

SILIO LUDOVIC
C.V.P.
Maracaibo, Venezuela



MORE Snap shots



MAURICIO TEDESCHI
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Quiriquire, Venezuela



STANLEY MATECKI
Texas Petroleum Company
Punta Gorda, Venezuela



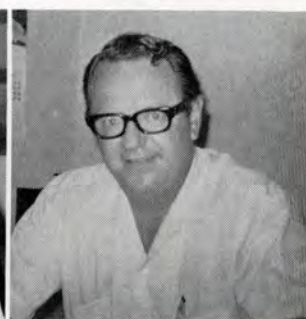
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SIMON ANTUNEZ
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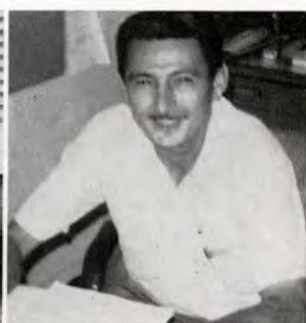
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IVAN MORA
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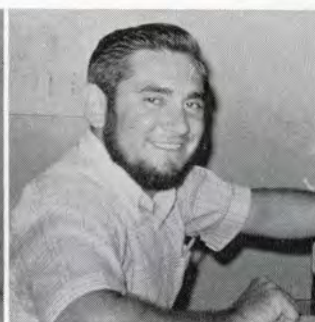
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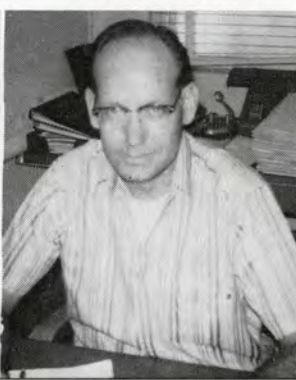
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La Salina, Venezuela



I. PELAEZ
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Buenos Aires, Argentina



PAUL RICE, left, JUAN PASCUAL
both with Creole Petroleum Corporation
Tia Juana, Venezuela



CARLOS LAYUN
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Comodoro-Rivadavia, Argentina



ROBERTO VEGAS, left, BOB POLLOCK
Creole Petroleum Corporation
La Salina, Venezuela



HECTOR DEL CUETO
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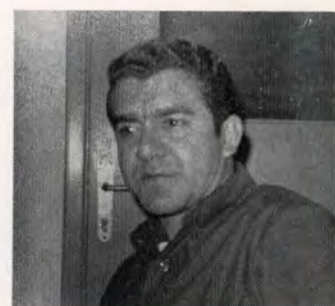
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Texas Petroleum Company
Punta Gorda, Venezuela



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Phillips Petroleum Company
Maracaibo, Venezuela



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Mendoza, Argentina



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Barinas, Venezuela





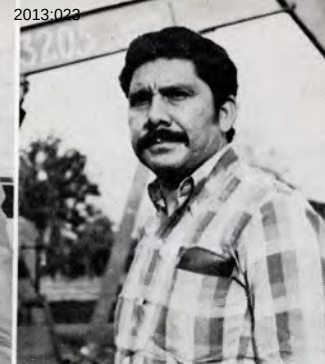
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Argentina Cities Service Development
Buenos Aires, Argentina



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Colombian Petroleum Company
Tibu, Colombia



NEURO SILVA
C.V.P.
Maracaibo, Venezuela



JUAN MARTIN PASCUAL
Cia. Shell de Venezuela
Lagunillas, Venezuela



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BOB PAUSELL
Texas Petroleum Company
Bogota, Colombia



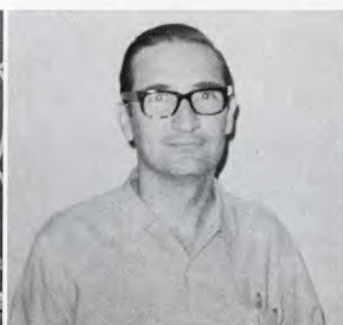
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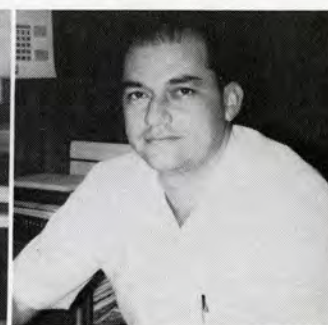
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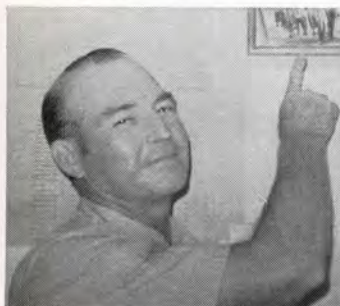
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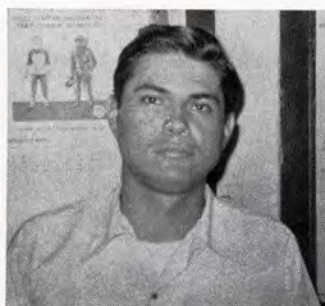
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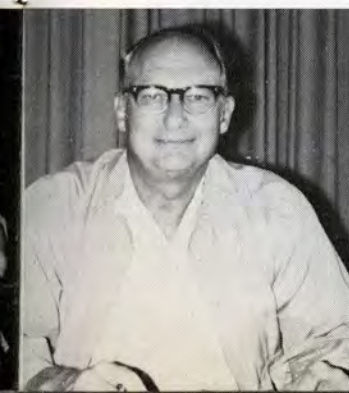
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La Salina, Venezuela

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Compania Shell de Venezuela
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RALPH C. SHOLTZ
Mobil Oil Company de Venezuela
Barinas, Venezuela

AL STUART
Phillips Petroleum Company
Maracaibo, Venezuela





TWO of the world's largest pumping units were operating at the exhibit of Lufkin Industries, Inc.

By VIRGINIA R. ALLEN

Permian Basin

IT WAS shirt-sleeve weather in Odessa, Texas, when the Permian Basin Oil Show opened October 21 for a 4-day run. Before the last visitor walked through the turnstiles, some 300,000 would have seen more than 400 exhibits devoted to the petroleum industry and related fields.

LUFKIN's contribution to the Oil Show was an exhibit featuring two operating pumping units—the largest in the world—whose gigantic size captivated the show's visitors.

One was a Mark II unit, M-1280D-427-192, and the other was an Air-Balance unit, A-1824D-240-47. These units reached into the sky on the up-stroke higher than a 5-story building, and could be seen for blocks before the visitors reached the parking area of the show.

The Air-Balance unit has 1,824,000-inch-pound torque capacity with a double reduction gear reducer, a polished rod capacity of 47,000 pounds and a stroke length of 240 inches. As a structure,

it is the largest Air-Balance available, although one other comes equipped with a larger gear reducer, the A-2560D-240-47, which has a peak torque capacity of 2,560,000-inch-pounds.

The Mark II unit has a 1,280,000-inch-pound torque capacity with a double reduction gear reducer, a polished rod capacity of 42,700 pounds and a stroke length of 192 inches.

Although the structures are the same dimensions, the Mark II unit on display at the show is technically outsized by only one other Mark II unit, the M-1280D-427-216, which has a stroke length of 216 inches rather than 192.

The Permian Basin Oil Show had its beginning back in 1940, when members of the Odessa Chamber of Commerce were looking for a way to promote the petroleum industry in Odessa and the Permian Basin. They developed what they called the Little International Oil Show.



A CABLE tool drilling rig circa 1920 was a well-visited exhibit. In the "Driller's Shack" adjacent to the rig there was a collection of early day photographs and mementos of West Texas' boom days

OIL SHOW...

Another show was held in 1941 and then the show became inactive during the war years. In 1950, the show was reactivated and incorporated as the Permian Basin Oil Show, Inc. and dedicated to the growth of the petroleum and allied industries within the Permian Basin. Since 1950, the show has been held every two years without exception.

The purpose of the show is to reach everyone connected in any way with the petroleum industry whether he be field employee or general manager. The first two days of the show are reserved for petroleum personnel only, with the last two days opened to the public.

The 1970 show was planned around the theme "Oil for the Lamps of Freedom." Proportionately larger than the 1968 show, due to the addition of another building with 70 spaces, this year's show featured 334 inside and 128 outside exhibits.

Traditionally, this show spotlighted innovations

in every aspect of the oil industry.

Of particular interest to oil industry personnel was the presentation of an old Cooper-Bessemer Type 13 compressor by the El Paso Natural Gas Company. Texas Governor Smith previously had declared the old compressor as an official Texas Historical Marker and he was present on opening day to participate in the unveiling ceremonies.

The old engine was originally placed in service October 1, 1931, in the Orla area and had been in continual use until El Paso Natural Gas dismantled it last year and moved it to the Old Rig Area on the show grounds. It is now housed in a special building there.

Besides viewing all the exhibits, oil people took this opportunity to renew old acquaintances and visit with friends from near and far. The warm, sunny weather of mid-October was conducive to just that, and all concerned pronounced the 1970 Show a tremendous success.



Left to right: BILL TROUT, LUFKIN, Lufkin; M. R. DILLON, Shell Oil Company, Hobbs, New Mexico; DON SCOTT, Ralph Johnson Rig, Inc., Hobbs; WILLARD CHAPPELL, LUFKIN, Odessa



Left to right: JOE BYRD, LUFKIN, Lufkin; HUGH ELLEDGE and T. J. AULD, both with Mobil Oil Corporation, Hobbs; LEE AULD, Lee Tool Company, Hobbs



MILTON WALTHER, left, LUFKIN, Lufkin; JOHN TYLER, center, Union Oil Co. of California, Midland, Texas; JACK HILL, LUFKIN, Odessa, Texas

LUFKIN'S OIL SHOW Visitors



C. R. SAULSBURY, left, Saulsbury Electric Co., Odessa; L. E. ARNOLD, center, Phillips Petroleum Co., El Dorado, Arkansas; MILTON WALTHER, LUFKIN, Lufkin



WILLARD CHAPPELL, left, LUFKIN, Odessa; LAWRENCE HODGE, Sun Oil Company, Colorado City, Texas



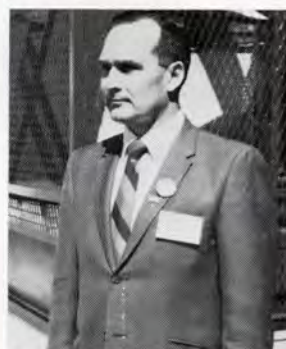
VIRGINIA ALLEN, LUFKIN's Editor; D. RAY LANGFORD, Sun Oil Company, Dallas, Texas



RAY HEFNER, left, Phillips Petroleum Company, Odessa; C. D. BOYKIN, center, Lufkin, and JACK HILL, Odessa, both with LUFKIN



Left to right: J. L. BUSSELL, Cities Service Oil Co., Hobbs, New Mexico; JAMES E. SEALY, United Chemical, Hobbs; A. G. BLACK, LUFKIN, Hobbs; DON OSMUS, Mobil Oil Corporation, Midland



BILL LABENSKE, Sun Oil Company, Midland, Texas



DOUG PATTON, left, Pool Company, COROD Pumping Systems, Denver, Colorado; C. D. RICHARDS, center, LUFKIN, Lufkin; FRANK POOL, Pool Company, COROD Pumping Systems, Denver

W. L. JENNINGS, left, Continental Oil Company, Odessa; JOE BYRD, center, LUFKIN, Lufkin; L. W. BEE, Continental Oil Company, Odessa

A. G. BLACK, left, LUFKIN, Hobbs, New Mexico; L. T. TELFORD, center, Hanley Company, Midland, Texas; WILLARD CHAPPELL, LUFKIN, Odessa

FRANK CONSTANT, left, Midland, Texas; CLYDE GREEN, center, Andrews, Texas; BOB PERVINSEK, Midland; all with Union Oil Company





We like a girl that says "no"—especially when you ask her if she's had enough.

"You know," says Susie, "champagne never bothers my head—but it sure plays heck with my virginity."

Do you know what's harder than getting a pregnant elephant into a Volkswagen? Getting an elephant pregnant in a Volkswagen!

The psychiatrist straightened up and began rearranging his clothes. He looked at the lovely lass on his couch and said, "Wow! I'd have given up this racket long ago, if it weren't for you nymphomaniacs!"

Mr. Simonson came home from the office unexpectedly and found his wife in bed with Mr. Jacobs, the next door neighbor. Distraught and angry he ran next door and confronted Mrs. Jacobs.

"Mrs. Jacobs," he cried, "your husband is in bed with my wife!"

"Calm down, calm down," Mrs. Jacobs said. "Look, don't take it so hard. Sit down, have a glass of tea. Relax."

Mr. Simonson sat quietly and drank his tea. It was then he noticed a little glint in Mrs. Jacobs' eye. Coyly she suggested, "You want a little revenge?"

And with that, they withdrew to the couch and made love. Then they had another glass of tea. Then a little more revenge, more tea.

Finally, Mrs. Jacobs looked at Mr. Simonson and asked, "How about another revenge?"

"I'll tell you, Mrs. Jacobs," said Mr. Simonson quietly, "to be truthful, I ain't got no hard feelings left."

There's a new sex pill on the market called Upjohn. If you don't swallow it fast enough, you get a stiff neck!

"Now remember what I said," whispered the mother to her voluptuous young daughter, "make hay while you're 38-25-34."

The college professor called on the pretty co-ed and posed the question: "Where do women have the curliest hair?"

The sweet young thing blushed and stammered, and the prof said sternly, "I'm afraid your mind is the wrong place. The correct answer is 'Africa'."

A good definition of conscience: That's what hurts when everything else feels good.

Fashion experts say the mini-trend will continue, but it looks as though the end is in sight.

The German word for brassiere is Holzumfrumpopinaut.

The prosecuting attorney's voice reached fever pitch as he cross-examined the defendant: "And, sir, you mean to tell me and this jury that you had a completely assembled still on your premises and were not engaged in the illegal production of alcoholic spirits?"

"That's the truth," answered the defendant. "I acquired it as a conversation piece, just like any other antique."

"Young man, you'll have to do better than that," the prosecutor sneered.

"As far as this court is concerned, the very possession of such equipment is proof of your guilt."

"Well, in that case, you'd better charge me with rape, too," stated the defendant.

"Young man," interrupted the judge. "Do I understand you correctly? You are confessing to the crime of rape?"

"No, your honor," answered the defendant, "but I sure as hell have the equipment."

"Oh, I had a wonderful time," cooed the coed to her mother. "Everybody said that Teddy and I were the cutest couple on the floor."

"I thought you said you weren't going to the Senior Dance," replied her mother.

"We intended to, but instead, Teddy took me to a pajama party."

The wife of a prominent businessman was going away on a short trip. As she was leaving, she suddenly remembered something and called her husband's office. His new secretary answered, and the wife instructed the girl to inform her employer that the alarm clock on her boss' side of the bed was not plugged in.

"I'll be glad to tell him," replied the secretary, "and who shall I say called?"

A man picks up a girl at a bar. After several drinks, he asks if she would like to go to his hotel room and see his plants. She bursts into laughter.

"What are you laughing about?" he asks.

"I've been asked to fellows' rooms to see etchings, to look at paintings, but never plants. That's a new one. Sure, let's go and see the plants."

So she goes to his room where, after an hour of boredom, looking at plants, she leaves in a huff. The moral is: you can lead a horse to water but not a horticulture.

A local driver was taking a pair of honeymooners to a cabin in a remote area of woods and suddenly realized he had lost his way. As the car approached a side road, he queried, "I take the next turn, don't I?"

"The hell you do," shouted the groom from the backseat. "You just keep driving!"

A tip to the playboys: Never marry a pretty girl—she'll run away. Marry an ugly girl. If she runs away, so what?

Jordan never worried about his wife's fidelity until the family moved from Texas to California and he discovered they still had the same milkman.

They tell of a rising young movie starlet who returned home from a hard day in front of the cameras to find six of her admirers waiting for her.

"Look, fellas," she said, "I've had an awful day. Been working since dawn. I'm knocked out. So one of you will have to leave."

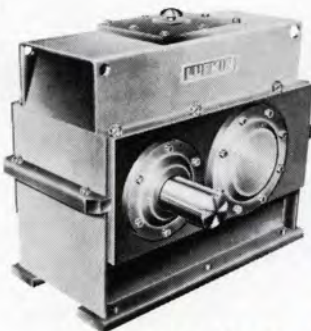
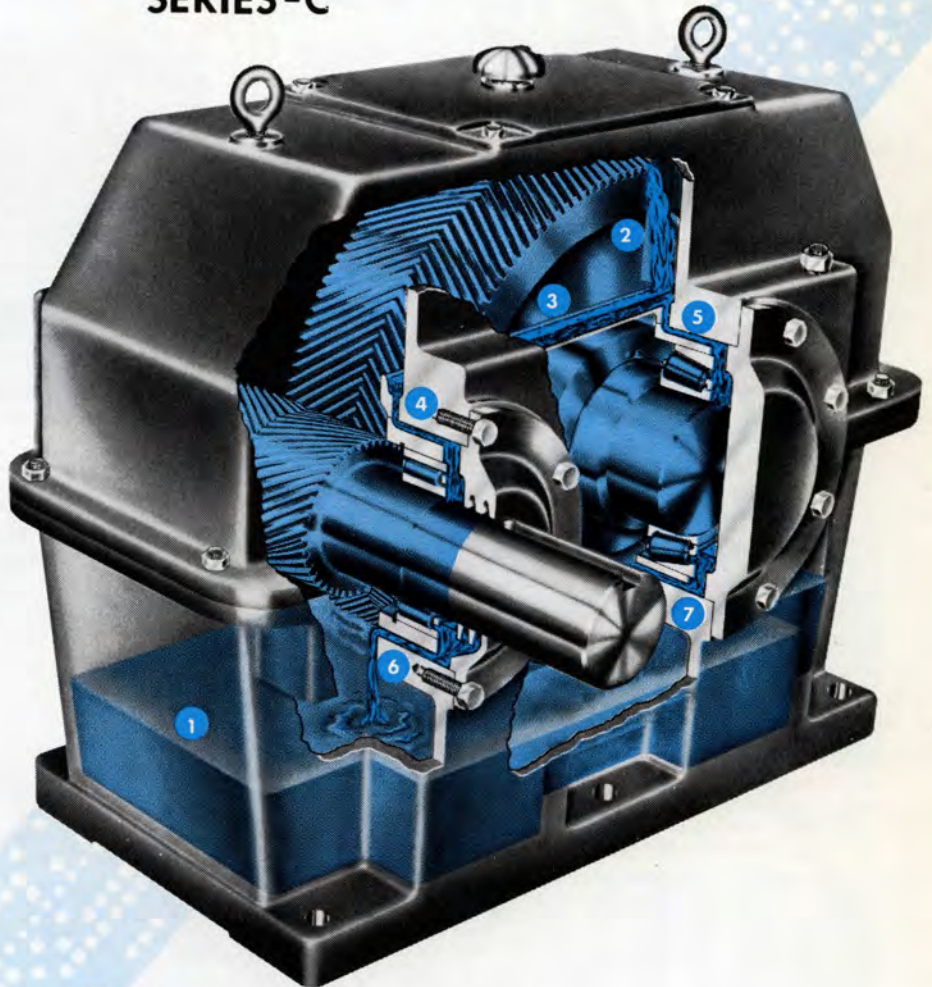
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Due to the complexity of the problems involved in arriving at the exact relationship between face width, center distance and tooth geometry Lufkin has resorted to the use of the computer to accomplish design perfection which otherwise would be impossible to obtain.

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