



Published monthly to advance and promote friendly service with the customers of The Lufkin Foundry & Machine Co., Lufkin, Texas

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NOVEMBER

1925

Ye
Editor's
Boss =

as others
see him



Read the
"dope" on
next page

Louisiana State Fair [Oil and Gas Men's Day] Issue

OUR BOSS ~

W. C. TROUT

(As Seen by the Editor of Lufkin Line)

The front page of "The Lufkin Line" has carried the photographs of numerous men, many of whom have built a national or even world wide reputation. The "Editor" of this little organ of news and cheerfulness has always used care in selecting the Man and the Story.

The photograph on the front cover of this issue is that of W. C. Trout, vice-president and active general manager of the Lufkin Foundry and Machine Company,—inventor, salesman, manufacturer, and friend—a man who seems to have found his niche and is filling it to the fullest extent.

Mr. Trout has spent the last twenty years in the service of the Lufkin Foundry and Machine Company, has played an important part in the growth and development of the company, and has been of help to both the oil and lumber industries.

Starting in 1893, Mr. Trout served twelve years with the old E. P. Allis Company, now known as the Allis-Chalmers Company, manufacturers of saw mill machinery, power and mining machinery, etc., working in the engineering department. He was later made sales engineer of the company, designing and selling many of the country's largest and best saw mills in that period. Since joining the personnel of the Lufkin Foundry and Machine Company, this company has designed and built 80 per cent of the saw mills in the entire Southwest.

During recent years Mr. Trout has been exceptionally interested and active promoting the company's efforts in the oil industry. During this time the Lufkin Equipment for the oil industry has become widely known, and the demand showing a steady growth.

Many of Mr. Trout's inventions both in the saw mill and oil industry are seeing active service today.

Mr. Trout is a member of the American Society of Mechanical Engineers; the American Society of Testing

Materials; President of the Southern Metals Trades Association, and has been very active in the standardization program of the American Petroleum Institute.

His associates, his friends, his town and his state appreciate the efforts and success of my friend, Mr. W. C. Trout.

—A new hat or a pink slip, which shall it be?—Ye Editor.

Lufkin Foundry and Machine Company Has Enjoyed Real Growth

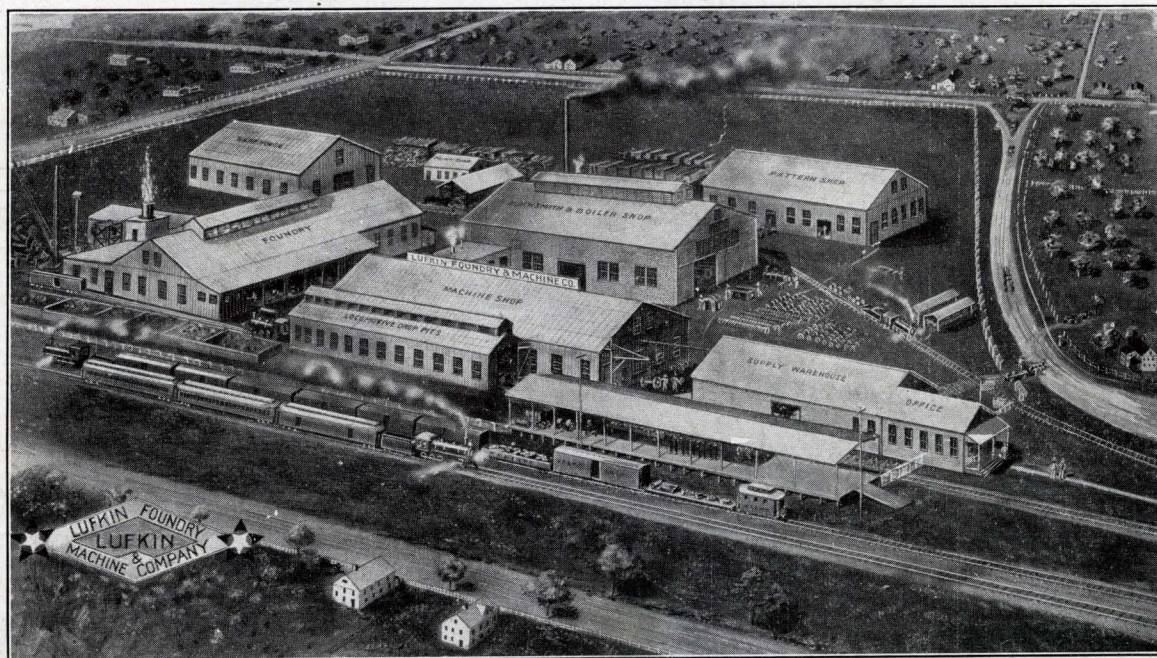
Some quarter of a century ago the Lufkin Foundry & Machine Company was started by a Mr. Frank Cavanaugh, an expert mechanic and foundry man. Five years later, Mr. W. C. Trout, now vice-president and general manager of the company, was induced to take the management of the plant and try and develop a saw mill machinery business.

By careful, slow plodding, and with a vision that would not be dimmed by difficulties, this branch of the business was built up to where the "Lufkin Line" of saw mill machinery became universally used throughout Arkansas, Louisiana and Texas, as well as on the Pacific Coast, earning the distinction of designing and erecting the largest saw mills in the Southwest.

A few years ago the management of the Lufkin Foundry and Machine Company decided to develop a Lufkin Line of oil industry equipment. Today this equipment is known favorably throughout the oil fields of the country,—a reputation having been established by consistent, worthwhile performance.

Lufkin Oil Industry equipment consists chiefly of: the Lufkin-Taylor Rotary, the Lufkin Pumping Unit and Hoist, a counter balance crank, Lufkin Crown and Traveling Blocks, heavy pipe line fittings, castings of all kinds, etc.

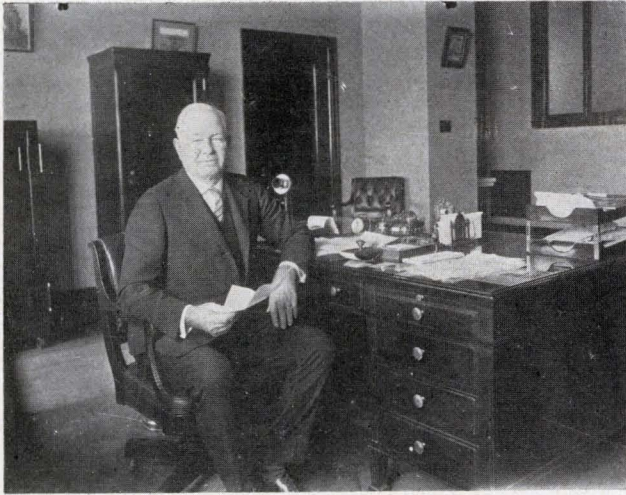
The two illustrations below emphasize the growth and development of this modern manufacturing institution—a growth made possible by the progressive policy of the company, and the superior performance of Lufkin Equipment.



Lufkin Foundry & Machine Company just a few years ago

FRANK P. STERLING

—At His Desk



Frank P. Sterling is a director of the Humble Oil and Refining Company, and in charge of field operations in the Gulf Coast country. His genial good nature and outspoken manner has made him a favorite not only with the men in the field but also with all those who get to know him. They soon call him "Frank." He is not one of those inaccessible fellows, hard to see, but rather one around whom there is no barrier for us average mortals. Incidentally ask him what he thinks of Lufkin Pumping Units and Hoists. "Greatest thing in the country," he'll probably tell you.

Wonder What It Looks Like
7591 Feet Underground?

Seven Thousand Five Hundred and Ninety-One feet is a lot of feet any way you count it, but straight down through the bowels of Mother Earth, it is a tremendous distance.

E. J. Miley, oil operator of California, thought that a hole could be put down to this great depth. He also thought an oil bearing sand existed "on down below" known oil sands. He believed these two things to such an extent that he risked many thousands of dollars to find out whether or not he was right.

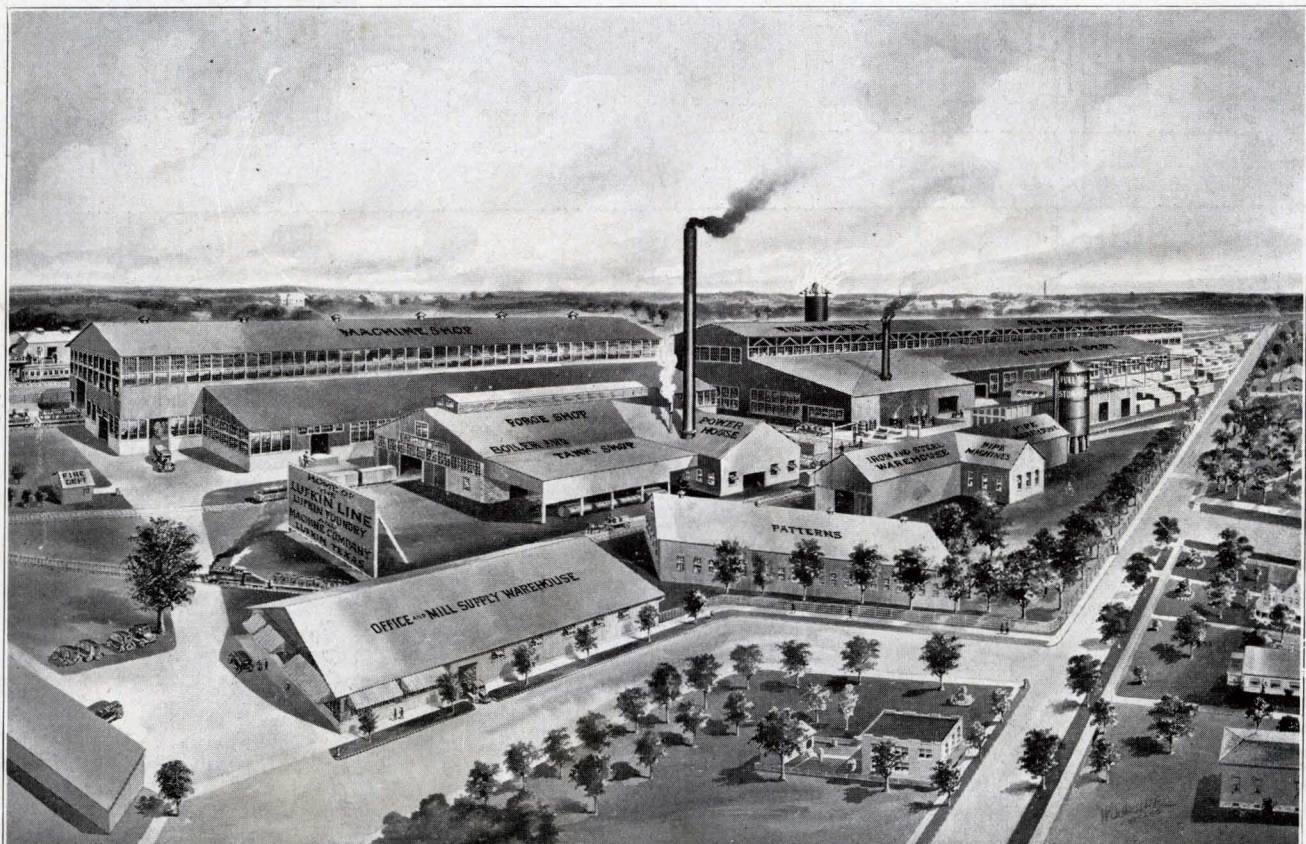
He was.

The E. J. Miley Well No. 6, at Athens, California, was brought in for 1500 barrels at a depth of 7591 feet. It was completed last month and is listed as the deepest oil well in the world.

In checking the geological formations of the well, 154 cores were taken, the last being at a depth of 7570 feet, the deepest core ever taken and the one that showed the deepest oil sand ever found.

In completing this well only 16 days were spent milling and fishing,—with only 172 actual drilling days, an average of more than 44 feet of hole per drilling day.

"Some Hole". "Some Well". "Some Operator". "Some Crew".



Lufkin Foundry and Machine Company today

A "New Wrinkle" in Counterbalance by New "Trout Counterbalance Crank"

The importance of correct counter-balancing is receiving more attention by the oil field men of today, than ever before. It has been proven that proper counter-balancing not only saves rod jobs, but also effects a material saving in power.

One of the oldest and most widely used types of counterbalance is the suspended box of rocks or concrete blocks. The objection to this type, is that speed greater than 30 strokes per minute will cause a jerk in the rod. To overcome this jerk at high speed, concrete blocks are sometimes placed on the tail board of the walking beam, but this is very unsatisfactory owing to the difficulty encountered in placing and securing them in position. A serious objection to both of these types is that the concrete blocks will break up very easily and in the long run are very expensive.

A step forward was made when weights were placed on the rim of the band wheel. However, it is very impractical to attempt to pull rods or tubing with the weight

There is lots more room at the top of the ladder — the lower steps being pretty well crowded: What most of us need is steam enough to climb above the crowded rungs—it's easier going then.

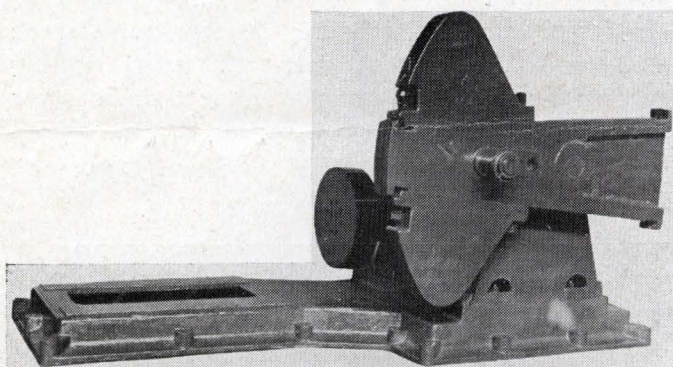
on the band wheel rim in place, and it is rather unhandy to remove.

The Trout Counterbalance Crank shown below overcomes these difficulties. Five minutes are required for one man to loosen the bolts, and adjust the weights to proper position.

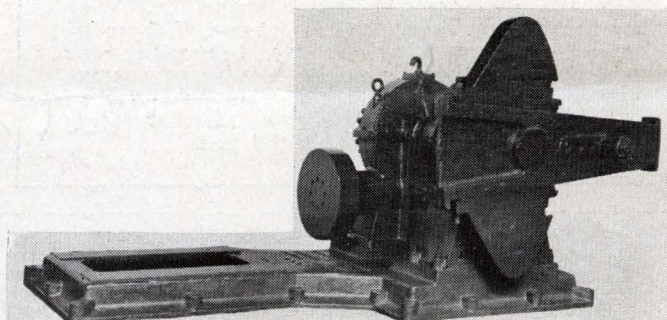
These weights slide in machined slots in the crank and when oiled are easily moved. In pulling rods the weights should be shifted past the center of the shaft, and adjusted to counterweight the crank arm itself. An advantage not possible with any other type of counterweight.

This counterbalance is especially effective at high pumping speeds. It not only takes the jerk out of the rod, but causes a fly wheel effect, that is of great assistance to the motor in handling the load.

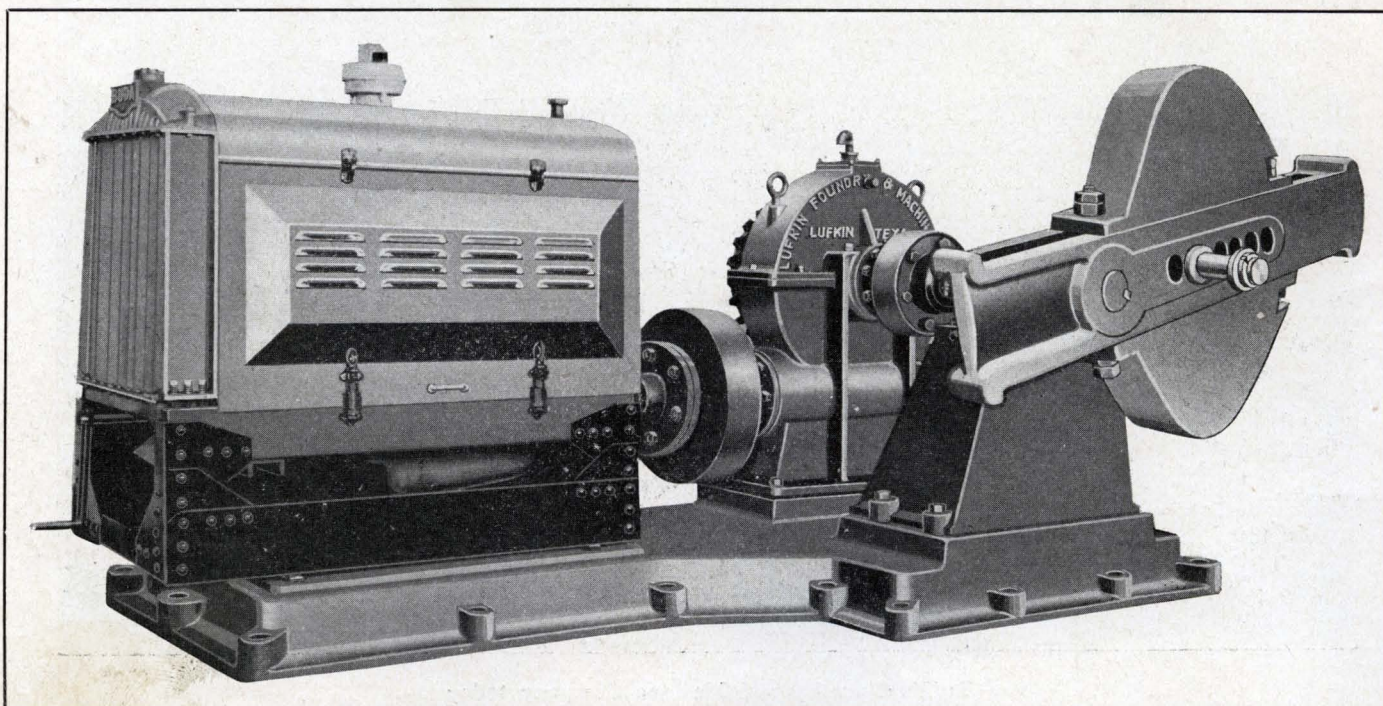
Before the balance crank shown below was installed 9 K. V. A. were required to pump the well, whereas only 6½ K. V. A. were required after this installation.



Lufkin Pumping Unit Equipped With Trout Counterbalanced Crank. Counterweights Shown in Position for Pumping



Lufkin Pump Unit Equipped With Trout Counterbalanced Crank. Counterweights in Position to Balance Crank When Pulling Rods and Tubing



THE LUFKIN LINE

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Lufkin Two Post Hoist Uses One Direction Power

(Reprinted from New Equipment Section of The OIL WEEKLY of October 2, 1925.)

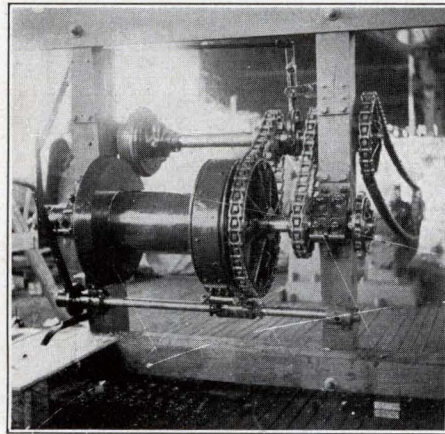
With the Lufkin two-post hoist now being used in many fields it is not necessary to reverse the motor or oil engine for pulling rods and tubing, the speed being in one direction and the power in absolute control of the operator.

A loose drum is mounted on the main shaft, which is provided with bronze bearing and ample oiling facilities. This drum is provided with the usual style of brake band and is driven with a wedge clutch of the usual hoisting engine type. The load is hoisted with this clutch, either at low or high speed.

A friction is provided to overcome the inertia to reverse drum to facilitate fast work in pulling rods and tubing, although when the brake is released the drum will unwind,

but the hurryup friction is provided to give the load a quick start and needs only to be applied for an instant. On the other hand, with no load, the friction is used to bring the block down quickly.

The hoist is provided with 3 15/16-inch shafts, all bearings being duplicates, all sprockets of steel, except the larger clutch sprocket, which is semi-steel, and takes 1030 chain.



Lufkin Two-Post Hoist

The brake band is made of regular asbestos brake lining and is six inches wide.

An extra sprocket is provided on drum shaft for driving rotary, should one be necessary to clean out a well.

The low speed is ratio of 2½ to 1, which gives about 100 feet pulling speed and should be used when starting to pull rods or tubing, and as the load gets lighter the high speed, which is 250 feet per minute, can be used.

All levers to operate the machine are arranged for centralized control.

The whole rig is mounted on two posts, no parts being bolted to the floor. Posts are included in the hoist and are of oak. In a very few minutes this hoist can be arranged to do extra heavy pulling like an ordinary draw works. On the slow speed sprocket are holes for four large, threaded bolts that lock the drum to the slow speed sprocket. This makes a direct drive and of course the clutch is also set to help do the pulling.

By reversing the motor the rig will act as an ordinary draw works, however, it is recommended that the sprocket on the drum shaft for driving the rotary be placed on the pumping unit shaft, which greatly reduces the speed of the hoist and increases the pulling power.

By this plan a speed of sixty-five feet on the drum may be obtained, which with the travelling blocks in proportion to the job to be handled, will take care of sanded tubing in most every case.

More information can be had from the Lufkin Foundry and Machine Company, Lufkin, Texas.

Counterweighting Most Important Test Shows

A very interesting test was made for the Amerada Petroleum Corporation, Cromwell, Oklahoma, by Mr. S. S. Schooley, a Consulting Electrical Engineer, for the purpose of ascertaining just what effect proper counterbalancing had on power consumed.

The seven wells tested were on the C Lease, and at the time of the test were pumping a total of 465 barrels of 42 gravity oil at a depth of approximately 3000 feet. Part of

the wells have 2½-inch tubing, and the balance 2-inch. All have ¾-inch rods. One well pumps oil with very little gas, while the fluid handled by the other pumps is very gassy.

All wells are equipped with standard 2-speed oil well pumping motors; 15-35 H. P. rating operated by the 440 volt power purchased from the high voltage power line in this field.

Five wells required a total of 64.9 H. P. before changes were made, the same wells required 50 H. P. after the changes. That is, 23 per cent less power was required as a result of the test. The two remaining wells required a total of 21.1 H. P. which were not altered.

The test also showed that less power is required by wells with 2-inch tubes, than those with 2½-inch tubes. The lowest power for 2½-inch tube well is 9.6 H. P. while the lowest H. P. 2-inch tube well was 8.4 H. P. Fourteen per cent more power is required for the larger tubes than the smaller.

Superstitious About Graveyards? Shaffer Company Isn't

(Reprint from TULSA TRIBUNE)

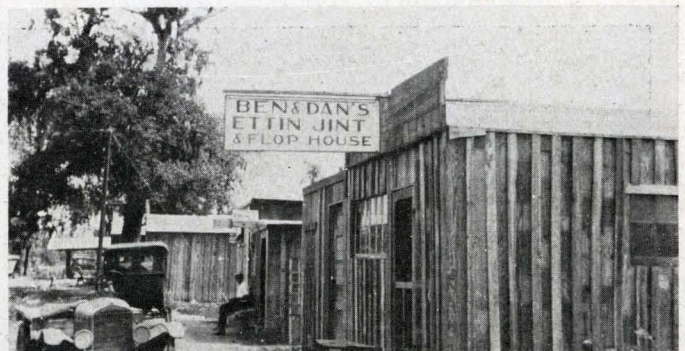
Here is one fair proof why the oil fraternity, which is just about as superstitious as a class as any other group of business men, should deem "graveyard leases" lucky, while practically all of the rest of humanity look with gravest doubts upon the burial places of the dead.

The Shaffer Oil & Refining Co., one year ago last Saturday brought in its initial well on the cemetery lease at the town of Wewoka, in section 32-8-8, Hughes County, Oklahoma. Being the first test to hit the pay sand in that immediate area, and also because it came in flowing at the rate of 1,920 barrels per day, it created a small sensation.

Since that day six additional wells have been completed on this little tract of land owned by Tal Jones, and comprising lots 2 and 3 of the Wewoka townsite, with the exception of a 20-acre piece on which the cemetery is situated. The last producer drilled was completed December 16, 1924, and was good for 912 barrels. All seven wells are in the gusher class.

Gross production for the one year from this lease has totaled 491,161 barrels and the crude tests somewhat above 41 degrees gravity today. Present production of the little tract is over 1,000 barrels at one year old, the lease never having made more than 2,700 barrels per day at any one time since the first test was drilled.

Both pumping and swabbing is done with electricity. All seven wells are equipped with electric motors and gears, there being no belts on the band wheels, and the drive being direct on the pitman.



How's this for your "Ham And"? It's where a lot of the boys of the Liberty field rest their "dogs" and stow in enough energy for another "go" in the field.—But with all its popularity it doesn't equal the 95% coverage of Lufkin pumping units in the same field.

Labor Day Picnic Great Success

The Lufkin Foundry & Machine Company employee's Labor Day picnic at Brookshire's Park was a success. The program included sack races, potato races, centipede races, broad jumping, boxing and wrestling. The merchants of Lufkin offered prizes for the various events, and all contests were highly competitive.

The "Badger Fight" was the feature of the day, it resulting in a victory for the Badger. Mr. A. F. Ochtman of the Buda Engine Company, Harvey, Ill., had charge of the Badger, and led him to victory amid wild cheering.

Plenty of good looking girls were on hand and the judges had some job picking the winners of the Beauty Contest. The photograph below is further proof that Lufkin is famous for things other than saw mill and oil field machinery.

...The Beauty Contest...



How would you like the job picking the winner here?
GUESS who won.

President Coolidge's Omaha Speech

President Coolidge never made a more effective speech than the one which he delivered at Omaha before the American Legion. The chief points emphasized by the President concerned the imperative necessity of unity and tolerance. At the same time he called attention to the willful activities of certain men who sought to force the United States to disregard its policy of economy and to spend money unnecessarily. Five points in the President's speech are covered in the following paragraphs which we regard as the high lights of this notable address:

"Preparedness—I am a thorough believer in a policy of adequate military preparation. We are constantly working to perfect our defenses in every branch, land forces, air forces, surface and submarine forces. The country can rest assured that if security lies in military force, it was never so secure before in all its history.

"Disarmament—In spite of all the arguments in favor of great military forces, no nation ever had an army large enough to guarantee it against attack in time of peace or insure its victory in time of war. Peace and security are more likely to result from fair and honorable dealings and mutual agreements for limitation of armaments among nations than by any attempt at competition in squadrons and battalions.

"Drafting of Industry—Such a law ought to give authority for a very broad mobilization of all the resources of the country, both persons and materials. * * * There is little defense which can be made for a system which puts some men in the ranks on very small pay and leaves others undisturbed to reap very large profits.

"Tolerance—One of the most natural of reactions during the war was intolerance. * * * There should be an intellectual demobilization as well as military demobilization. * * * It is not easy to conceive of anything that would be more unfortunate in a community based upon the ideals of which Americans boast than any considerable development of intolerance as regards religion.

"Americanism—Whether one traces his Americanism back three centuries to the Mayflower or three years to the steerage is not half so important as whether his Americanism today is real and genuine."



East Texas Mill Managers Association Meeting—Some fine crowd of East Texas' best people.

THE LUFKIN LINE

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"The Charleston"

We wonder who started the Charleston Dance anyway. After seeing a few experts perform, the opinion just naturally arises that the first person to dance this knock-kneed clog must have accidentally got a five pound piece of ice down his (or her) back—and the resulting convulsions were mistaken for a dancing effort.

The first big mistake was in ever calling it a dance. It's not a dance. To dance one must be graceful, and no one was ever drunk enough to call the Charleston graceful. It's a good act to put on at a cabaret show, or on the stage of a medium class burlesque show. The motions might even fit in as a sane imitation of the St. Vitus dance, or be even an expression of what most women would like to do to the shins of the neighbors, but as a graceful, emotion provoking, alluring, gliding, hesitating, heart throbbing dance—He—

This is merely ye editor's idea, you're welcome to yours—So on with the Dance.



"Hizzoner" the Boss, W. C. Trout, enjoying himself at the annual picnic.

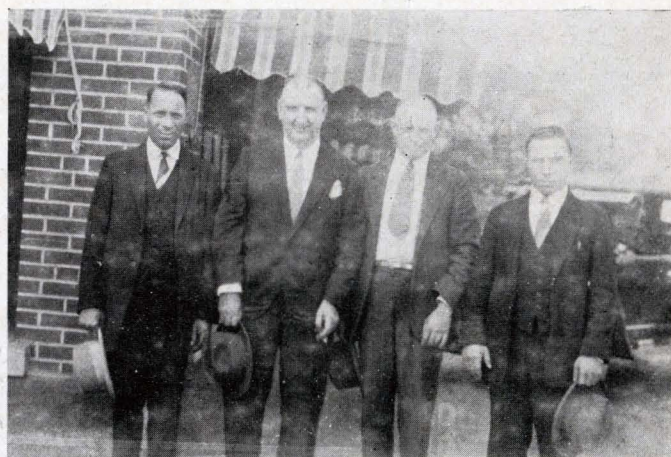
Distinguished Lufkin Visitors



And they're well chaperoned—A. F. Ochtman, Buda Co.; C. B. Edwards, branch manager Lufkin Foundry & Machine Co., (Houston); Nick Carter, superintendent Mills Bennett Production Co., Liberty field. Bottom row—Mrs. C. B. Edwards, Miss Marie Edwards and Mrs. Carter.

Distinguished Russians Visit Lufkin Foundry and Machine Company

Russians from Baku District visit Lufkin Foundry Plant to see how Lufkin-Taylor rotaries and pump units are made. Both machines are being used in that



far off oil country. The Lufkin company recently made its third shipment.

Reading from left to right: Timothy Galkin of Baku; W. C. Trout of Lufkin; I. P. Ippa of New York and Russia, and Aga Bala Salmonoff of Baku, Russia.

The Lufkin Foundry & Machine Co. specialize
in all kinds of

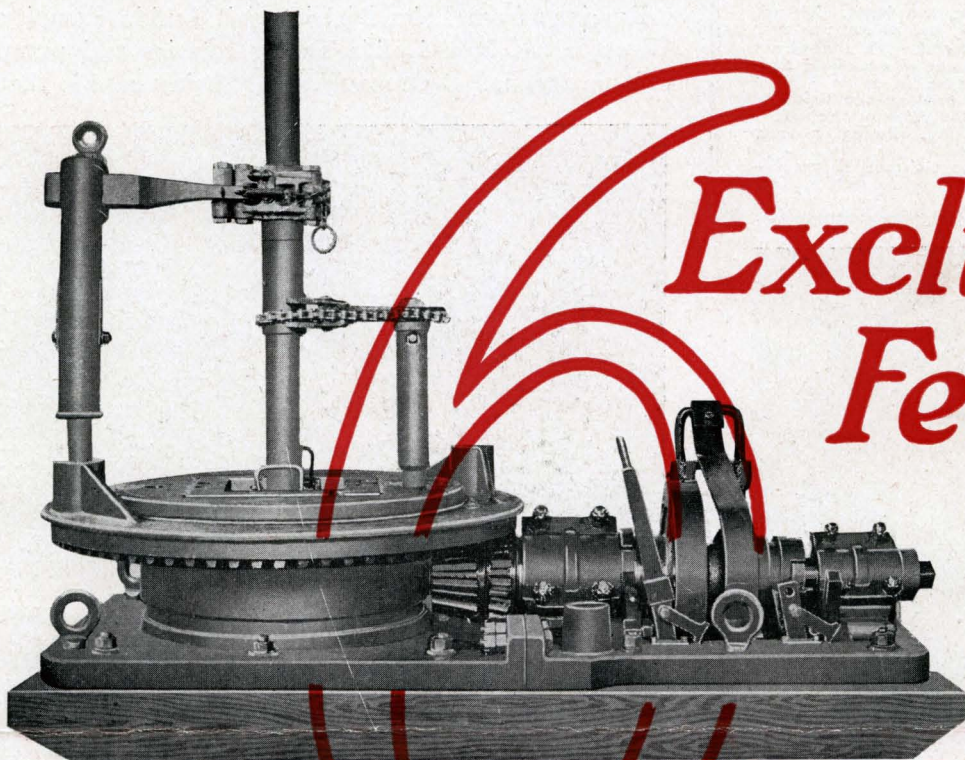
CASTINGS



Modern foundry and ideal working conditions enable us to furnish highest grade castings for the OIL and LUMBER INDUSTRY

Get "Lufkin" prices on your next Castings

For Safety and Speed in Rotary Drilling



*Exclusive
Features
of
the*

LUFKIN "MAKE and BREAK" ROTARY

- 1.—Has outside ring table to make and break drill pipe or casing.
- 2.—Supports weight of drill pipe or casing on main cone bearings,—side thrust roller bearings guaranteeing true running.
- 3.—Has adjustable slip friction that insures joints being made up tight as desired without danger of freezing or stripping threads. This slip friction also eliminates all danger from broken wrenches flying in all directions.
- 4.—Makes and breaks joints within itself without the necessity of reversing engine.
- 5.—Made entirely of steel, with renewable bronze bushings, and alemite

lubrication. Cannot get out of alignment.

- 6.—Allows driller to go into hole at rate of one fourble per minute and come out on a minute and one-half to the fourble. $6\frac{5}{8}$ " casing can be set at the rate 400 to 500 feet per hour.

For details and prices

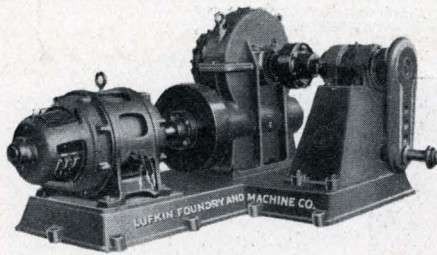
LUFKIN FOUNDRY & MACHINE COMPANY
LUFKIN, TEXAS

NEW YORK CITY
3009 Woolworth Bldg.

LOS ANGELES
913 Petroleum Securities Bldg.

HOUSTON
805 2nd National Bank Bldg.

TULSA
317 Roberts Bldg.



Pumping Unit-

The Last Word in Pumping Economy

Proof of this statement is the ever increasing demand for these units. The following features are the reasons for this remarkable success:

1. It is designed for direct motor connection, or gas or oil engine, directly connected or geared.
2. It is a unit that replaces the standard rig.
3. Gives exceptionally low power cost, requires minimum attention, yet gives efficient, continuous performance.
4. Has no belts, countershafts or rods,—low fire hazard, higher salvage value.

One trial unit sold equipment for the entire lease in Oklahoma. Ninety per cent of the Liberty, Texas, Field are using the Lufkin Pumping Unit. It's a winner—

Write for booklet and prices

LUFKIN FOUNDRY & MACHINE COMPANY

LUFKIN, TEXAS

NEW YORK CITY
3009 Woolworth Bldg.

LOS ANGELES
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• The Tulsa Convention •

Well, the big show at Tulsa is over.

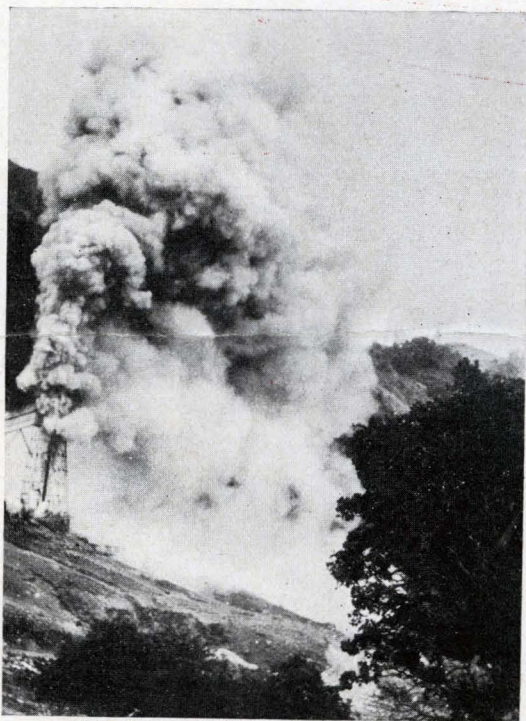
There were thousands of people, old and young, big, little, good looking and homely on hand to see and be seen,—near and be heard.

A little mud failed to dampen the ardor.

One of the biggest surprises of the exposition was the display of the different makes of four cylinder gas engines, such as the Buda, Hercules, Climax and Waukesha. These displays attracted a great deal of attention. While this class of engines have been used for many years by some of the oil companies, the oil industry as a whole is apparently taking note of their higher efficiency, low cost of upkeep, etc.

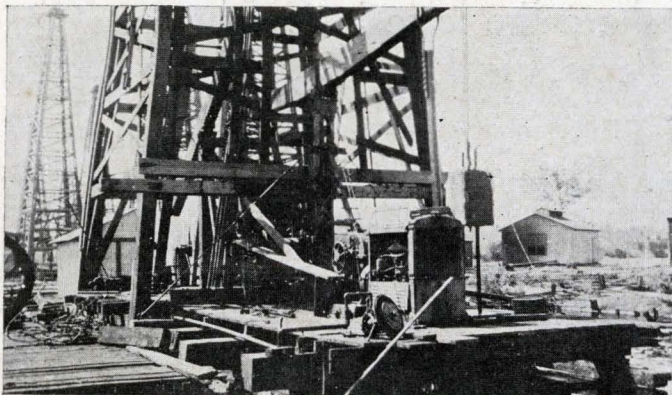
A fifty horse power, four cylinder engine weighs approximately 2600 pounds, and sells for much less than a single cylinder engine, with half its power, weighing three times as much.

Yes, the exposition is over, but it was a big success. It was never meant to be a fair or a circus. So why feel like it was not entirely successful because it was not as heavily attended as last year?



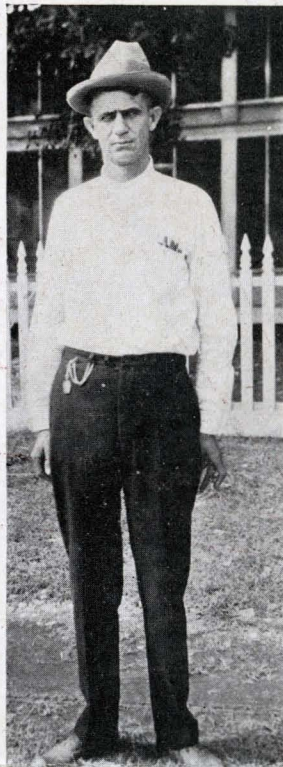
NEITHER GAS NOR OIL

Just to prove that all the wells drilled are not oil, gas, water or sulphur we show this photo of one of California's famous steam wells. Boys she's sure running wild. How would you like the job of "shutting her in"?



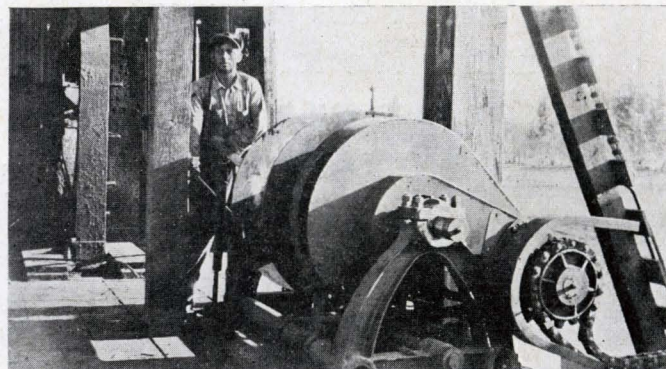
Mills Bennett Rig.—Changed over from standard rig to Lufkin pumping unit, Liberty field.

Morris Standifer Improving

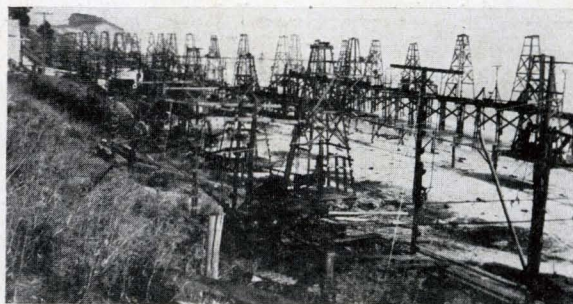


The Lufkin Line is certainly pleased to let its readers know that Morris Standifer is improving nicely from severe burns suffered when a well caught fire in Goose Creek.

Standifer is superintendent for the Humble Oil and Refining Company in the Goose Creek field. It takes a brave man to battle a burning well.



Self contained hoist on General Petroleum Securities Company's Klinemyer lease, B. 17, Torrance, California. Harry Goodwin bailing the well. (Note enclosed sprockets.)



Shallow well oil field right on the "banks" of the Pacific Ocean in California—Summerland field.

THE LUFKIN LINE

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A Photo taken at Delta Land & Lumber Company, Conroe, Texas



No wonder they do a bang up business; look at this personnel. In the picture from left to right.—Miss Betty Childress, accounting department; C. O. Drennen, statistician; O. E. Drennen, agent; J. S. Patten, payroll; J. N. Meredit, secretary and superintendent office; A. E. Hickerson, supt.

COMPLETE MILL SUPPLIES carried in stock—Lufkin Foundry & Machine Co.

LUMBERMEN—

How's This for a Freak of Nature?



The lower branches are oak; the top, the saw mill's pride,

Study this picture close. They say tall oaks from small acorns grow — but there is a "hitch" here. Moral:—DON'T graft. A pine has been grafted into an oak at Conroe, producing the freak shown here. The tree seems to be flourishing and has been growing for several years.

Notes of Interest to the Mill Trade

EXCHANGE AND SALE OF INTERESTS IN TWO NEW ORLEANS FIRMS

J. H. Kurth, Jr., Kurthwood, La., has purchased the holdings of G. J. Palmer and succeeded him as vice president of the Central Gulf Lumber Company of New Orleans. J. L. Spotten has acquired the interest and succeeds R. M. Townsend as secretary. W. A. Burt is president of the company.

In the Gulf Export Company, which was allied with the Central Gulf, G. J. Palmer, secretary-treasurer, acquired the interest of president W. A. Burt and succeeds him in that post. Lynn H. Dinkins is vice president of the company.

Mr. Fred Wilson, Superintendent of the Frost Lumber Industries, Inc., Nacogdoches, Texas, has just returned from his vacation which was spent in Virginia.

Mr. Roy Black, Field Supt. of the Humble Oil and Refining Company, South Liberty, spent about two weeks at Goose Creek looking after the Humble interests in the absence of Mr. Standifer, who was injured when Beaumont No. 10 caught fire early in October. It is reported that Mr. Black was signed up as Assistant Foot Ball Coach for the local high school while in Goose Creek.

O. L. Alexander, formerly of the Jacksonville Crate & Basket Company, has recently built and is now operating the Conroe Crate & Basket factory, at Conroe, Texas.

Mr. A. A. Few, manager of the Palmetto Lumber Company, Jasper, was a recent caller at our plant.

A. E. Cudlipp, manager of Mill Supply Department, was a visitor in Dallas during the Fair.

Mr. Jim Thompson, Inspector for the Southern Pine Association, admits that Mr. J. W. McKee, manager of the W. R. Pickering Lumber Company, Haslam, Texas, knows considerably more about the saw mill business than he does about the outcome of a "World Series."

The Gulf Production Company has recently completed a series of tests on various makes of electric motors, also various types of pumping equipment. These tests were conducted at Goose Creek and were under the supervision of Mr. M. L. Cashion, Electrical Engineer for the Company.

Mr. Nick Carter, Field Superintendent of the Mills Bennett Production Company, South Liberty, helped us celebrate Labor Day at our Annual Picnic.

Jack Geddes, "The Flying Scotchman," representing the Ohio Knife Company, spent the first half of October co-operating with our salesmen in Texas.

Mr. A. J. Peavy, president of the Peavy-Byrnes Lumber Company, Shreveport, also president of the Southern Pine Association, is on a trip to the West Coast, where he has been for the past month.



This is sure a MODEL assorting shed. Delta Land and Lumber Company, Conroe, Texas,

Hoisting Test • Lufkin Unit and Hoist

A special Oklahoma type hoist to be used in conjunction with a bull wheel was furnished the Shaffer Oil & Refining Company by us. Mr. Huey of the Shaffer Oil & Refining Company assisted by Mr. T. D. Williamson, of the Petroleum Electric Company and Mr. McCormick of the Wagner Electric Corporation ran a test on this arrangement, on one of their wells at Wewoka, Okla.

The purpose of the test was to ascertain the power required, and the efficiency of the drive when pulling rods and tubing. This was done in order to obtain an accurate decision as to the proper sprocket sizes that would give the best results from the operator's standpoint, without overworking the motor.

The hoist is driven by means of a chain from a sprocket on the shaft of the Lufkin Pumping Unit. The hoist has a 16-inch diameter by 32-inch long drum and is provided with a brake band, friction clutch, and jaw clutch. The starting and stopping can be easily effected by the use of the brake band without stopping the motor. While the jaw clutch is used for permanently disengaging the drum in case it is desired to drive the bull wheel by means of the chain drive from the hoist shaft.

It was decided that for ordinary hoisting, such as pulling rods, and tubing, a 17-T sprocket would be used on the out-

EXTRA!

Send for details on the new Extra
Heavy Duty Lufkin Pumping Unit
—Just coming out.

side end of the hoist. The bull wheel will be dispensed with entirely except for heavy work like swabbing, etc., which is not required more than approximately once a year, for which work a 35-T sprocket will be placed on the Lufkin Unit, and a regular 15-T sprocket on the outside of the hoist.

In this test 3140 feet of 2-inch pipe filled with oil was lifted on the 16-inch bull wheel, with two ropes of size 1-inch giving a lifting speed of .705 feet per second. The efficiency of this drive was 55%.

The second test was similar to the first, except that three 1-inch ropes were pulled from the 16-inch diameter Lufkin Hoist effecting a lifting speed of .875 feet per second. The efficiency of this drive was 74%. The power saved by using the Lufkin Hoist, over the bull wheel is 23%.

In swabbing this particular well, the motor was run on the high side at 1200 R.P.M., and the swab lifted 3240 feet in thirteen and one-half minutes, the swab line being reeled on the bull wheel and driven across the derrick from the rod and tubing hoist direct as shown in the picture.

• Rex Chain Derby •

Our friends will remember the annual Rex Derby staged by the Chain Belt Company to promote the sale of the famous "Rex Griplock and H Type Chains." This is a regular event in which only jobbers' salesmen participate.

We have never failed to finish in the money and on one occasion landed in first place. This year they have set our quota very high and it will mean that we will have to pull harder than ever to win. We can not have the quota changed, so there is only one thing left for us to do, and that is to appeal to our friends stronger than before.

Not only does volume in sales count but prizes are also offered for:

"The best performance story on Rex Chain (All accepted performance stories). Best photograph of Rex Chain in service (all accepted photographs)."

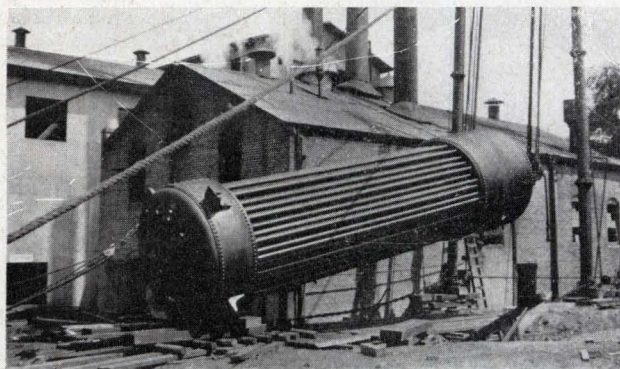
So if you haven't an order for Rex Chain, but know of a chain in your mill that has given exceptional service drag our salesman over to see it. Perhaps he can write a story about it, and take a picture also. Exceptional ability as a writer is not required, only the facts are essential.

Last year we not only finished in the money, but won several prizes for performance stories, and photos.

The Rex Chain Derby will run over a two months track, two months—that's the distance. The finish will be December 1st, at midnight.

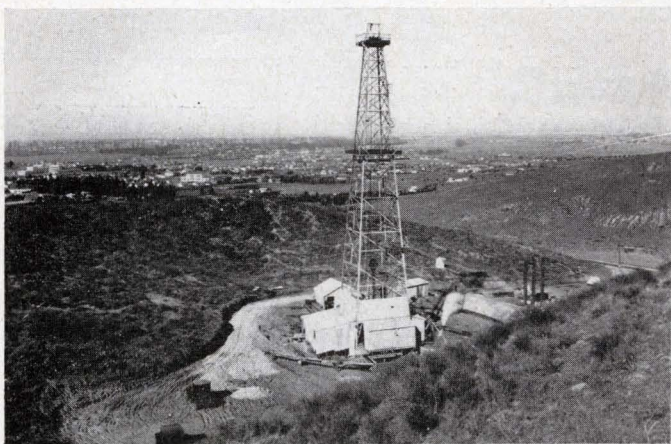
Are you ready—I'll say we are—sure you're with us. Look over our large stock.

**We Build COMPLETE Saw Mills—
RIGHT.**



Raising a 600 H. P. Wicks Vertical Water Tube Boiler at the Angelina County Lumber Company's mill, Keltys, Texas. This new unit which is one of the most modern installations in the South, was sold by the Lufkin Foundry & Machine Company.

Another One In California

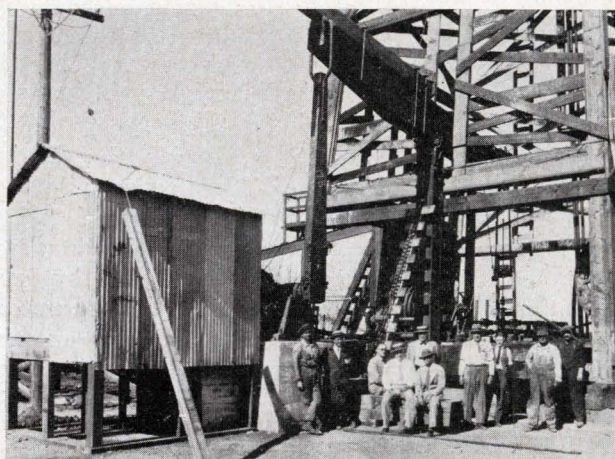


Lufkin Roller Bearing Crown and Traveling Blocks at work

—Photo shows Petroleum Securities wildcat well, Palos Verdes, Cal. Town of Tometa in background, Torrance oil field to left, "Standard" tank farm to right.

Get Ready to Go!

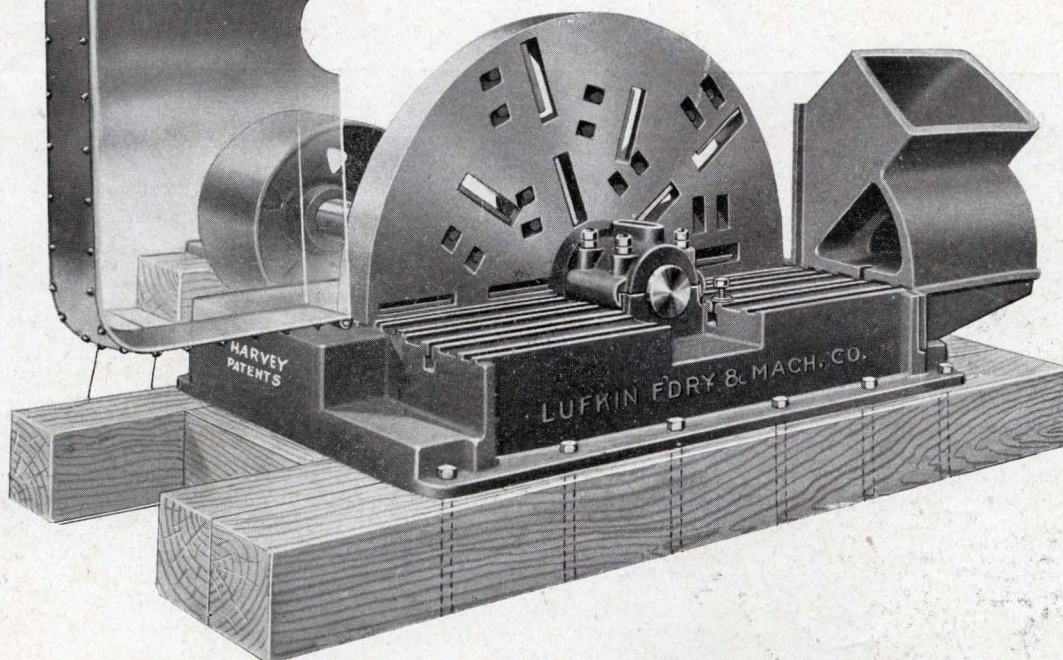
A wonderful excuse to see "Sunny" California in mid-winter and rub elbows with "movie" stars. THE ANNUAL PETROLEUM INSTITUTE gathering at Los Angeles, Jan. 18, 19, 20, 21. We understand the "S. P." is planning a special train from these parts for the big affair.



Lufkin Hoist and Pumping Unit, Petroleum Securities Lease, Torrance, Cal. Their popularity is spreading FAST.

The Harvey Hog

—A Glutton for Work



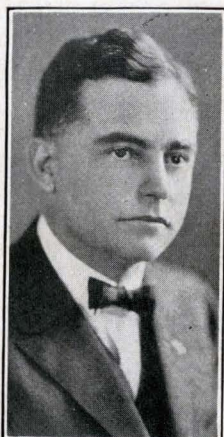
Preferred by mills throughout the Southwest and on the Pacific Coast. Few parts; simple, sturdy construction; Safety Device Protection against iron.

Descriptive Bulletin on request—

**Lufkin Foundry
& Machine Co.**

LUFKIN,
Texas

The Martin Wagon Company Has Shown Substantial Growth



B. L. ZEIGLER
General Mgr. Martin
Wagon Company

The Martin Wagon Company was organized some fifteen or sixteen years ago and began making the Martin Eight-Wheel Log Wagons.

Production began on a small scale for the Eight-Wheel Wagon was unknown and untried at that time but was quickly found to be practical and profitable by saw mill and logging operators and the popularity of the Martin Eight-Wheel Log Wagons began spreading until it is now used throughout the Lumber producing sections of the South.

In enlarging and improving facilities for making the Martin Eight-Wheel Wagons the company added to their production the Martin Slip Tongue Log Carts, Four-Wheel Lumber Wagons and their Standard Two-Wheel Lumber Buggies, all of which are extensively used.

Along with the demand for Lumber and Logging Wagons was the demand for wagons for hauling boilers, machinery, pipe and other heavy material in the oil fields so the Martin Wagon Company meets this demand with their Eight-Wheel Boiler Wagon

and their Special Four-Wheel Pipe Wagon or Oil Gear, and this equipment is known and used in the oil fields in this country and in Mexico and South America as well.

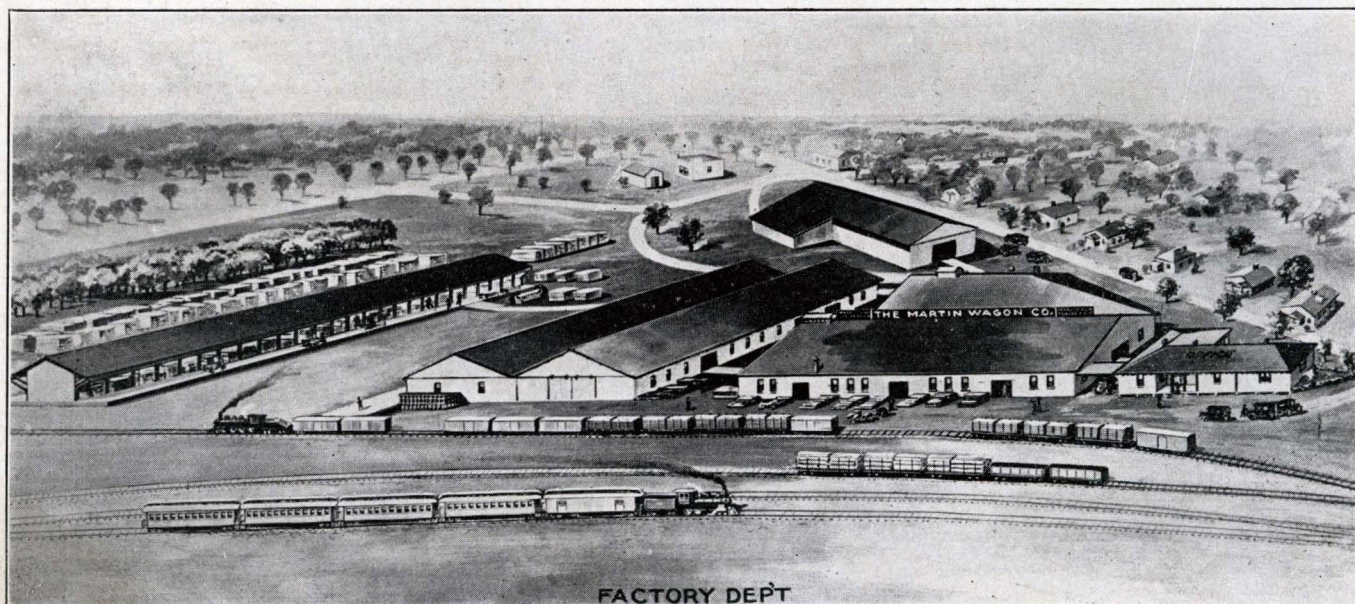
The Martin Wagon Company located in Lufkin, Texas, is surrounded by forests of the finest hardwood timber; they own and operate in connection with the wagon factory an up-to-date hardwood saw mill, keeping the wagon factory supplied with the best of wagon stock. The slogan throughout the saw mill and wagon factory being, "Nothing but the very best material is good enough to use in making Martin Wagons."

B. L. Zeigler, president and general manager, has been with the company since its organization and has been in active management since soon after organization.

J. W. Lewis, secretary-treasurer, has been with the company for the past eight years and has been an active assistant in extending and establishing the products of The Martin Wagon Company.



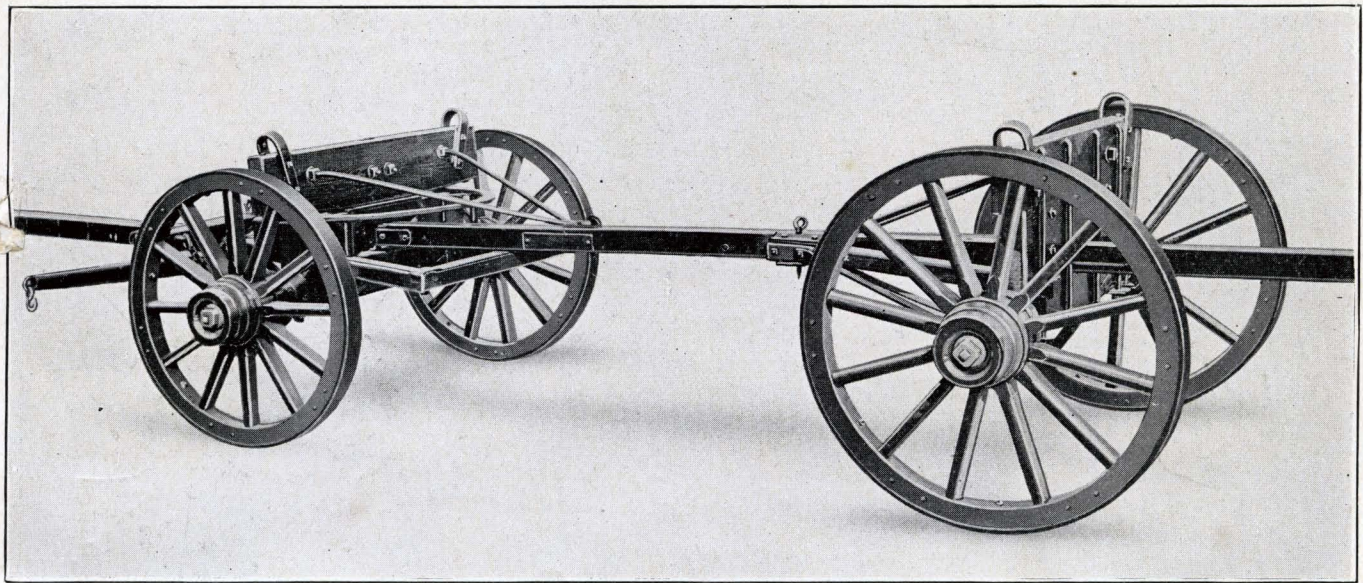
J. W. LEWIS
Secretary-Treasurer Mar-
tin Wagon Company



FACTORY DEPT

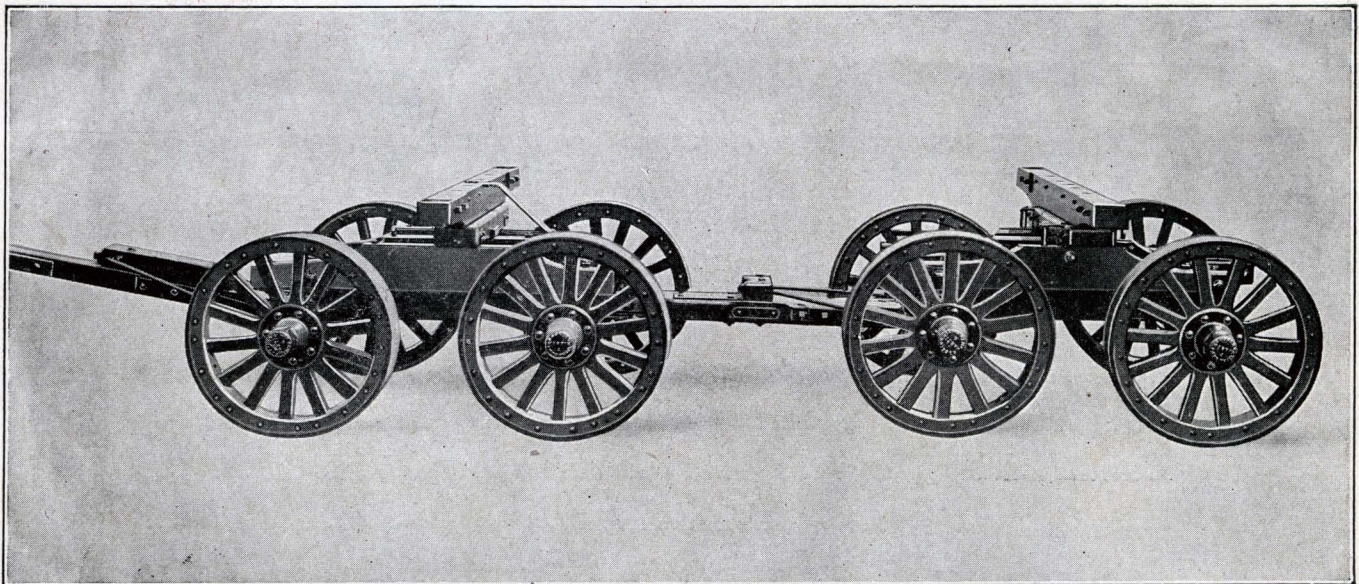
Factory of the MARTIN WAGON COMPANY, Lufkin, Texas, Where Heavy Duty Wagons Are Manufactured for the Oil and Lumber Industry

two favorite types of Heavy Duty
MARTIN WAGONS



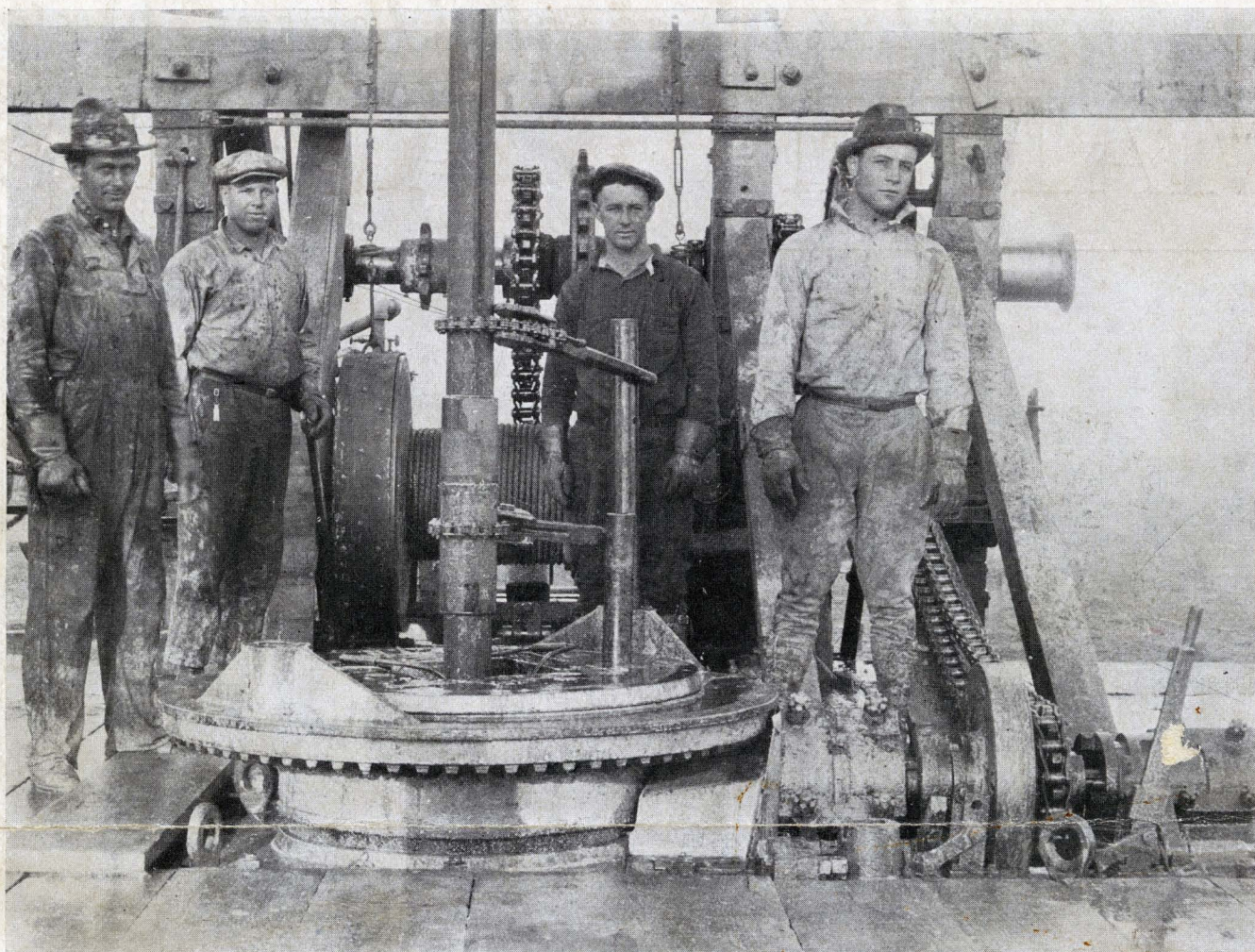
The Martin Oil Field Special or Pipe Wagon

Here is a wagon that is serving many companies well. It stands the rough roads and heavy loads. Pulls easily and takes the heavy roads in good shape. Made in sizes to fulfill your needs.



An "Eight Wheeler" for Extremely Heavy Duty

The Martin Wagon Co. LUFKIN TEXAS



A Lufkin-Taylor Rotary at Work

GOING IN HOLE WITH DRILL PIPE

This photograph was taken on the derrick floor of Gulf Production Company's well, John Hamon No. 1, Liberty field. They are using the Lufkin-Taylor Rotary, making up drill pipe going into the hole. Ask this efficient crew how they like to operate this "sure nuff" Rotary. Joe Caudill, driller, and crew are shown in the picture.

Lufkin Foundry and Machine Co.

NEW YORK CITY
3009 Woolworth Bldg.
LOS ANGELES
913 Petroleum Securities Bldg.

**LUFKIN
TEXAS**

HOUSTON
835 2nd National Bank Bldg.
TULSA
317 Roberts Bldg.