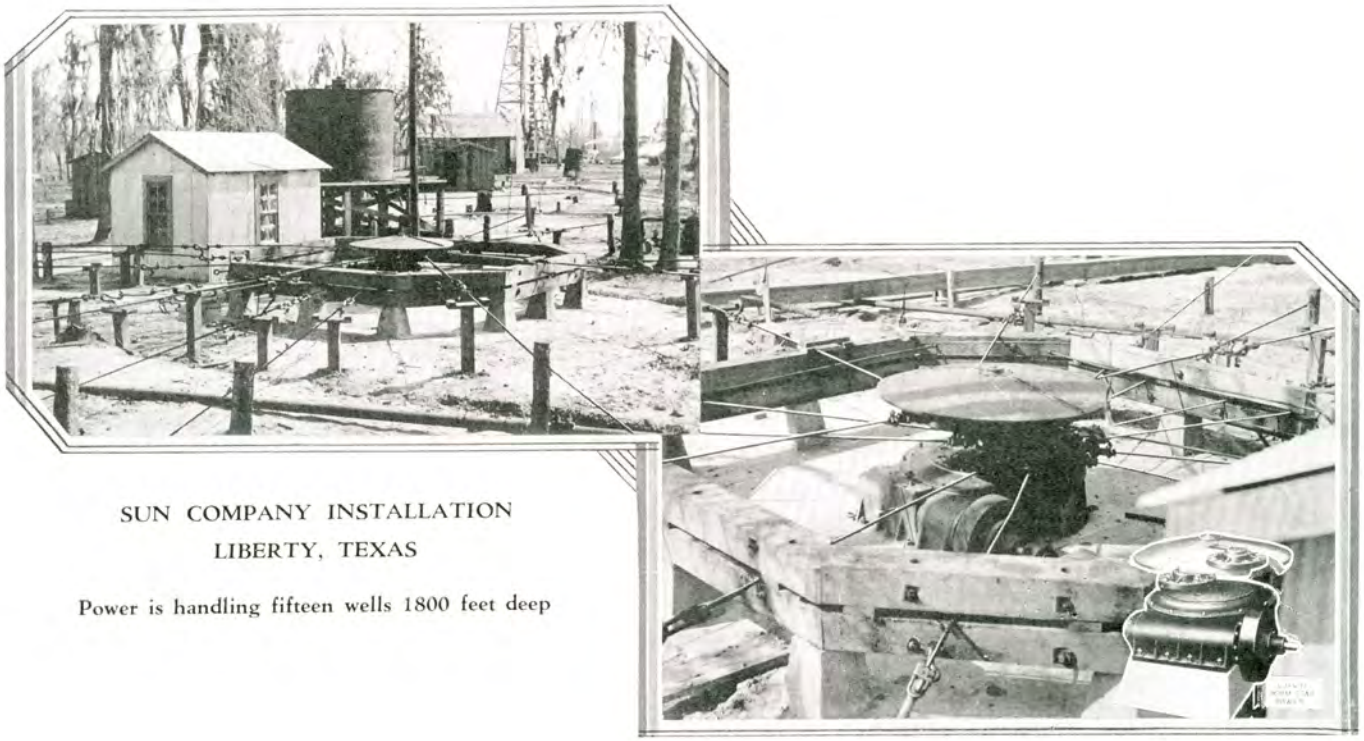
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What May Be Expected of *LUFKIN* Powers



SUN COMPANY INSTALLATION
LIBERTY, TEXAS

Power is handling fifteen wells 1800 feet deep

The Standard Lufkin Power gear 52″ dia. is the same size as used in our 6½″ Heavy Duty Worm Gear Units with which the trade is familiar. The gear will of course, handle temporarily 100 to 150 H.P. as it has in pumping heavy wells. It is however, as in the Units, designed to handle 40 to 50 H.P. and give long lasting service. Experience proves our statement in this respect.

The Giant Power gear 71″ dia. will handle 250 H.P. loads safely, but is intended to be operated at 100 to 125 H.P. continuously to give lasting service.

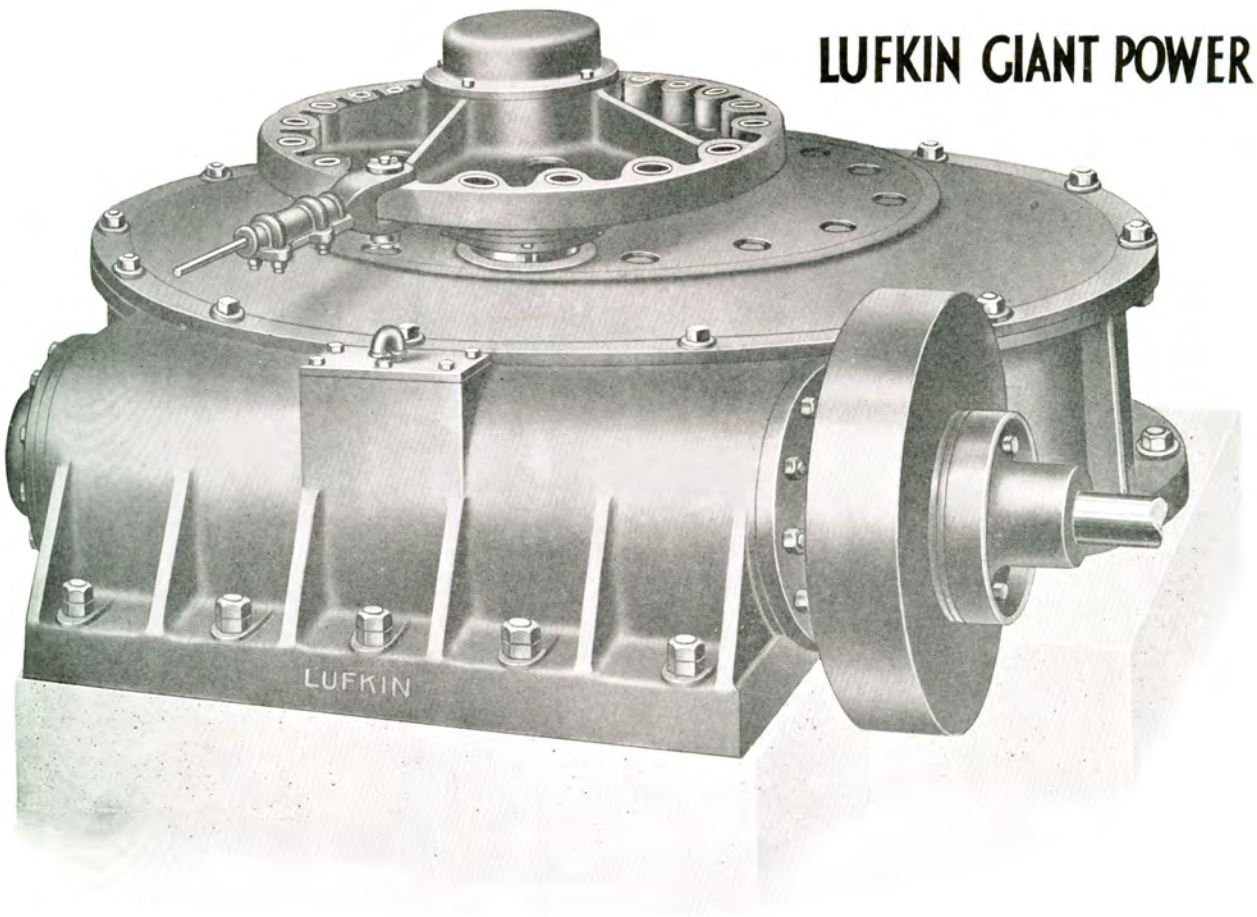
The table following has been estimated, first from experience (wear on gears in actual pumping service for six years), and by engineers who have had a life time experience in worm gear operation:

Estimated Service in Years Based on Input Horse Power At Nominal Speed 18-Strokes Per Minute.

Horse-power	25	30	35	40	50	60	70	80	100
Standard Pwr.	25	20	15	12	10	5	3		
Giant Power					30	25	20	18	12

Lufkin Powers Are Designed For Severe Service

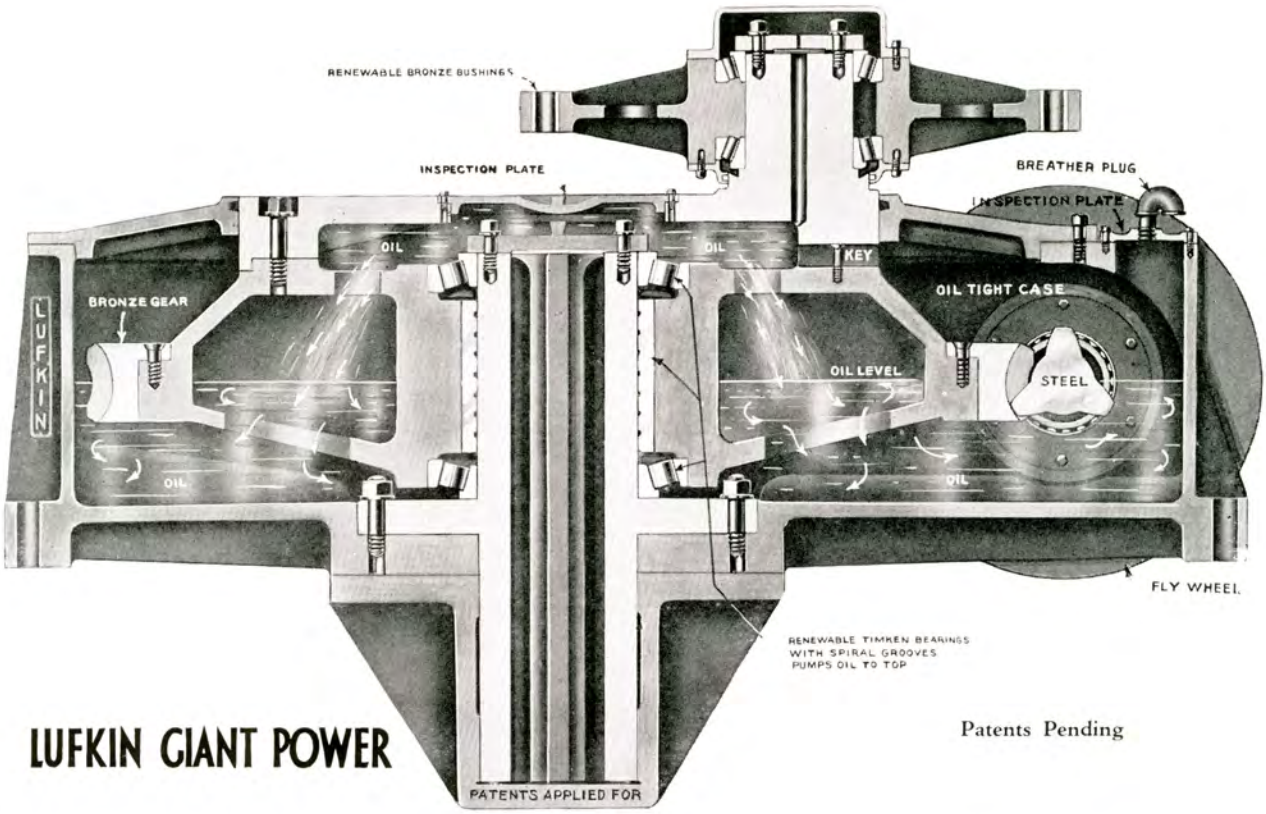
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LUFKIN
Giant Power

The success of our Standard Power has been so pronounced; meeting with general satisfaction wherever used that we have, at the suggestion of our customers, designed this Giant Power for extra heavy service. They will be found to be efficient, require very little attention and will be satisfactory in every respect.

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Patents Pending

Lufkin "*GIANT*" Central Pumping Power

SPECIFICATIONS

Center Trunnion, Nickel Chrome Steel 12″ diameter.

Center Bearings, Timken Tapered Rollers.

Gear, 71″ diameter, 6″ face, 2-7/16″ circular pitch.

Gear Ratio, 29-2/3 to 1, 44½ to 1.

Worm, 6-11/16″ pitch diameter.

Worm Bearings, double Timken thrust, Hyatt radial.

Crank, 36″ Stroke.

Crank Pin, 8″ diameter.

Crank Pin Bearings, Timken Rollers.

Crank Ring, for 20-well connections.

Crank Pin Bearings are automatically oiled by pump from gear box.

Gear Bearings are oiled by pump from base.

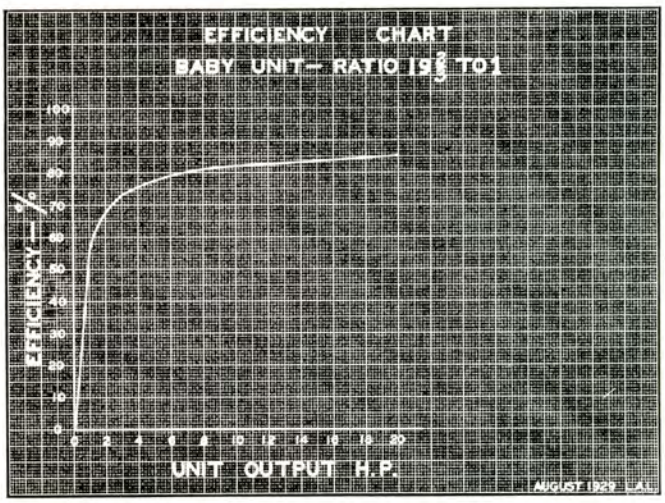
Load Capacity, 100 to 125 H.P.

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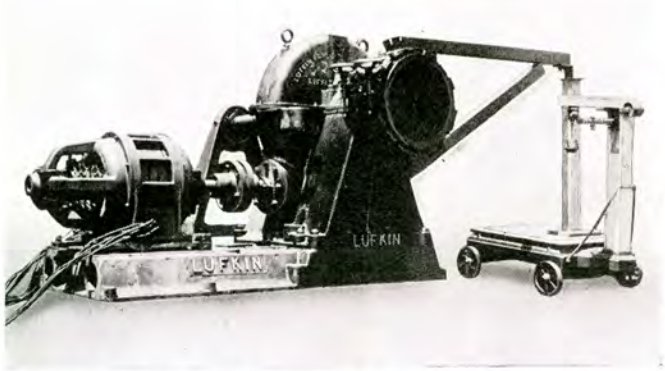
Pony Brake Tests Show Lufkin Worm Gears High In Efficiency

All of the various models of Lufkin Worm Gear Units have been tested in our shop with pony brake and indicating wattmeter. The photograph illustrates the set up used.

Efficiency charts on any of the worm gear units may be had upon request. The efficiency chart on this page was made on a Baby Lufkin Unit and illustrates the characteristic curve of the class of worms and gears used in the Lufkin Units.

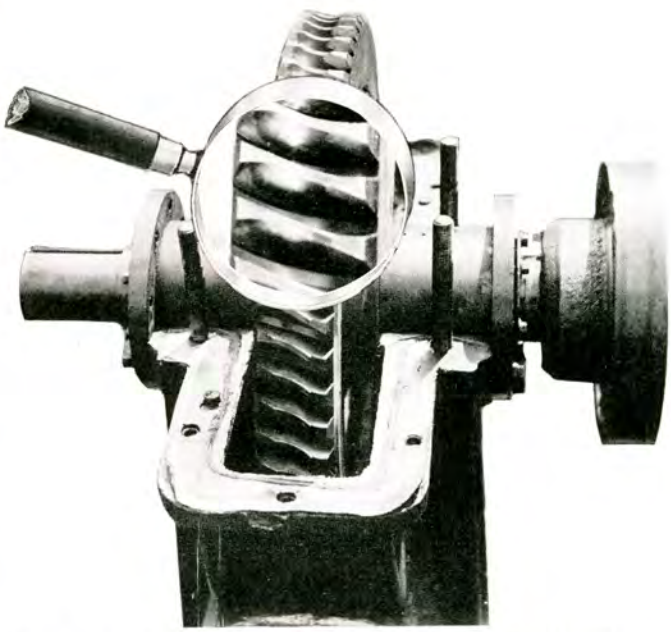


Efficiency Chart—Lufkin Baby Worm Gear



Pony Brake Method of Testing Efficiency of Lufkin Units

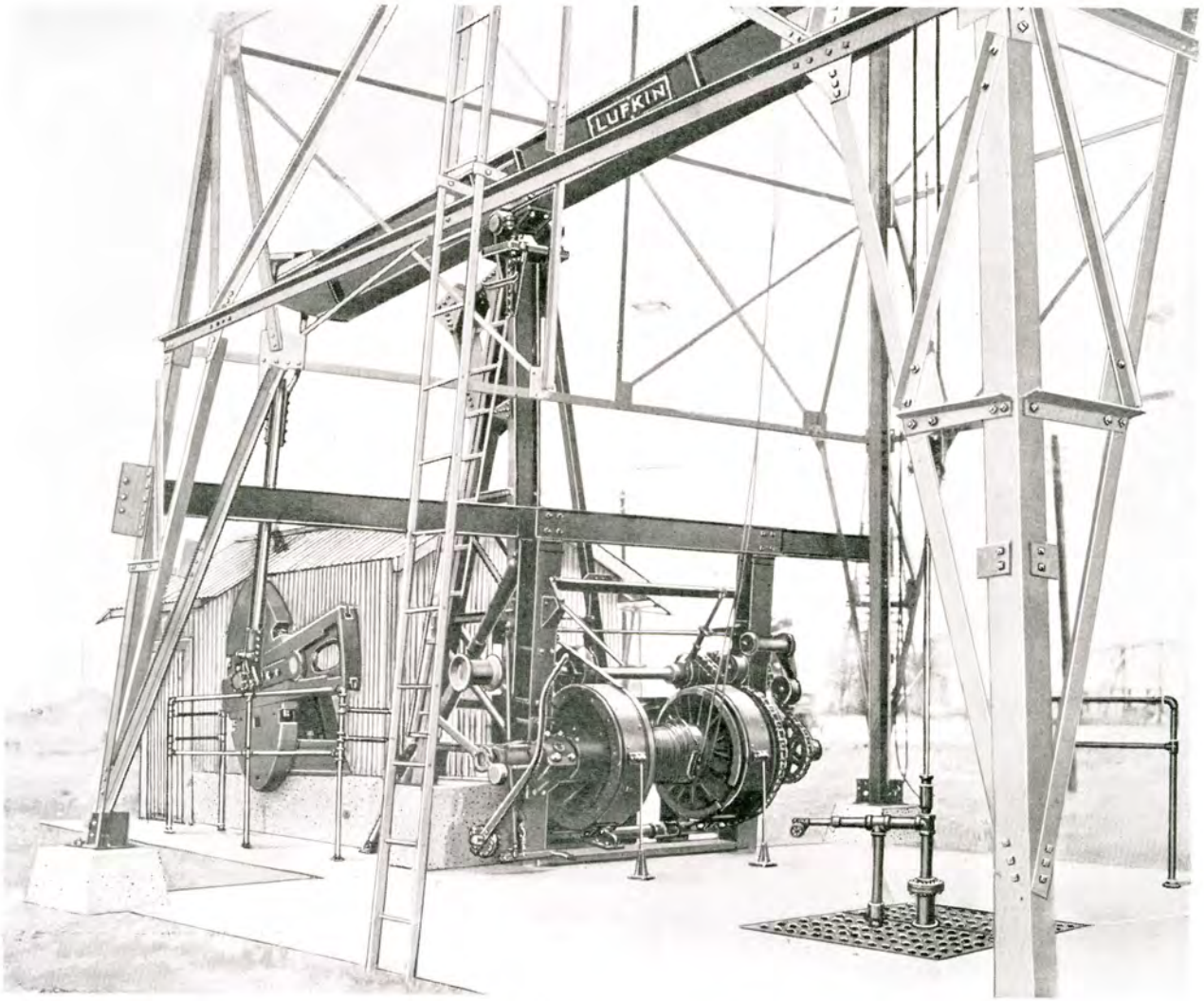
In addition to testing new units several of the old style units have been brought in after five years of hard service and placed on the test block. The old units without exception operated at a higher efficiency than the new units. These tests prove conclusively that the worm gear reduction maintains its efficiency of power transmission throughout its entire life.



Close-up of Worm Gear Teeth in Lufkin Unit After Five Years of Continuous Service Showing Practically no Wear.

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Lufkin Hoists



Lufkin No. 52 hoist with steel Jack Post. This is a typical "Lufkin completely equipped" installation including 5½" Herringbone Geared Unit, Lufkin Post, Beam and Oil Bath Pitman

LOOSE DRUM TYPE HOISTS

Special Features and Advantages

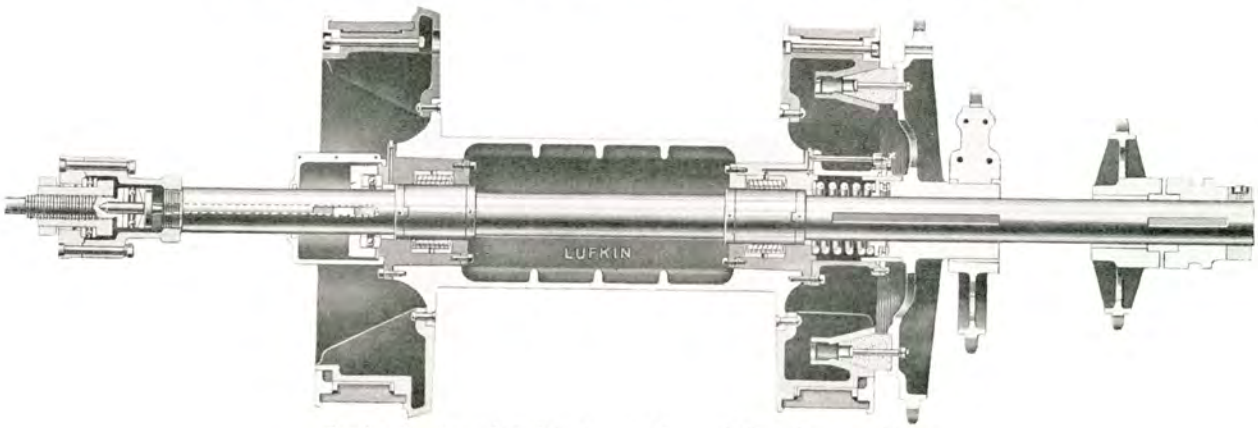
LARGE SHAFTS AND BEARINGS.
MOST POWERFUL WEDGE CLUTCH.
LARGE BRAKE DRUM SURFACE.
TROUT EXPANSION DRUM HEADS NOT AFFECTED BY EXPANSION.
ROLLER DRUM SHAFT BEARINGS.
BALL THRUST BEARINGS.
LARGE WIRE LINE CAPACITY.
ALEMITE LUBRICATION.
J. M. ASBESTOS BRAKE LINING.
ALL STEEL SPROCKETS FOR 1030 CHAIN.

These Hoists extensively used on Standard Rigs. Drive Sprockets line up with Calf Wheel Drive Sprocket.

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Lufkin Production and Drilling Hoists Have Outstanding Advantages

Used With Geared Units and Standard Rigs



Sectional view of Lufkin Loose Drum Roller Bearing Hoist

Seven years experience in the field has definitely proved the many advantages of the Lufkin Loose Drum, Roller Bearing Hoists. The loose drum feature permits hoist to reverse without use of power which is a big advantage when using multi-cylinder or single cylinder gas engine drive.

This experience has led us to adopt certain standards and a hoist has been designed to meet every field condition from shallow production requiring seldom use of hoist to one well in California said to be the deepest well in the world.

The Trout Expansion Drum is used on all hoists which is absolute insurance against breaking of drum head from brake band heating.

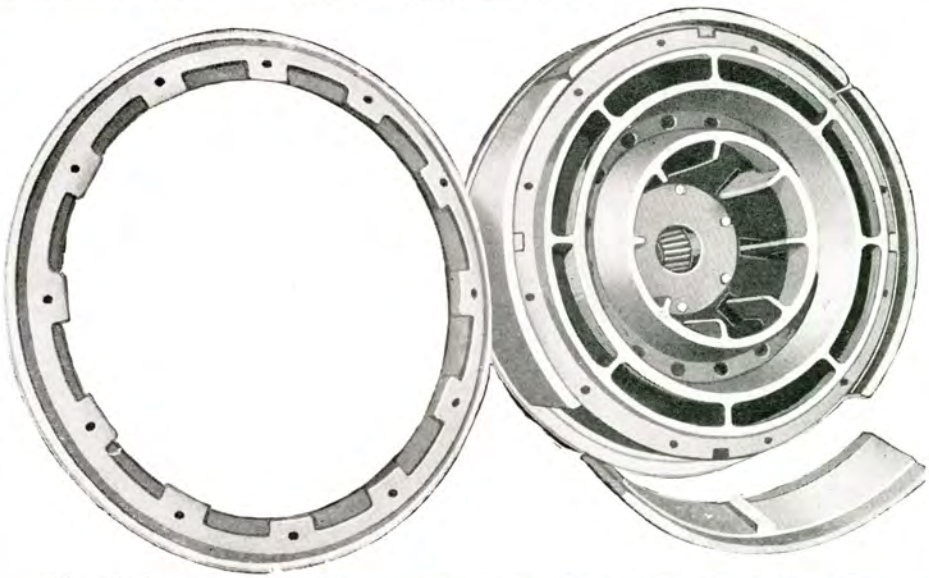
Hyatt Roller Bearings are used in the drum and a double thrust bearing is also provided.

The clutches are of asbestos graphite block construction and the brake linings are of the Johns-Manville folded asbestos type. All line shafts have extension on right end for sprocket to drive rotary countershaft.

Lufkin Hoists, because of their many advantages over bull and calf wheel for drilling are used regularly with Standard Rigs for drilling and pulling.

Designed in a number of sizes the Lufkin Line of Hoists have met with instant favor.

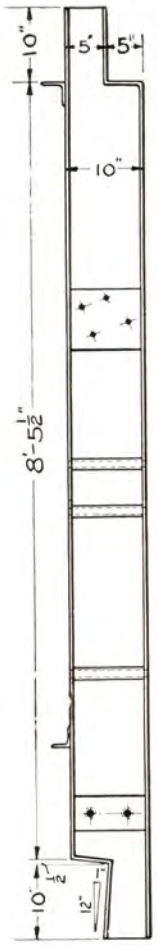
Lufkin Hoists are ruggedly constructed and are fast and powerful in pulling rods and tubing. Friction clutch starts load easily. Loose roller bearing drum allows load to go into well by gravity so that reverse power is not required. Time pulling rods and tubing is greatly reduced when Lufkin Hoists are used.

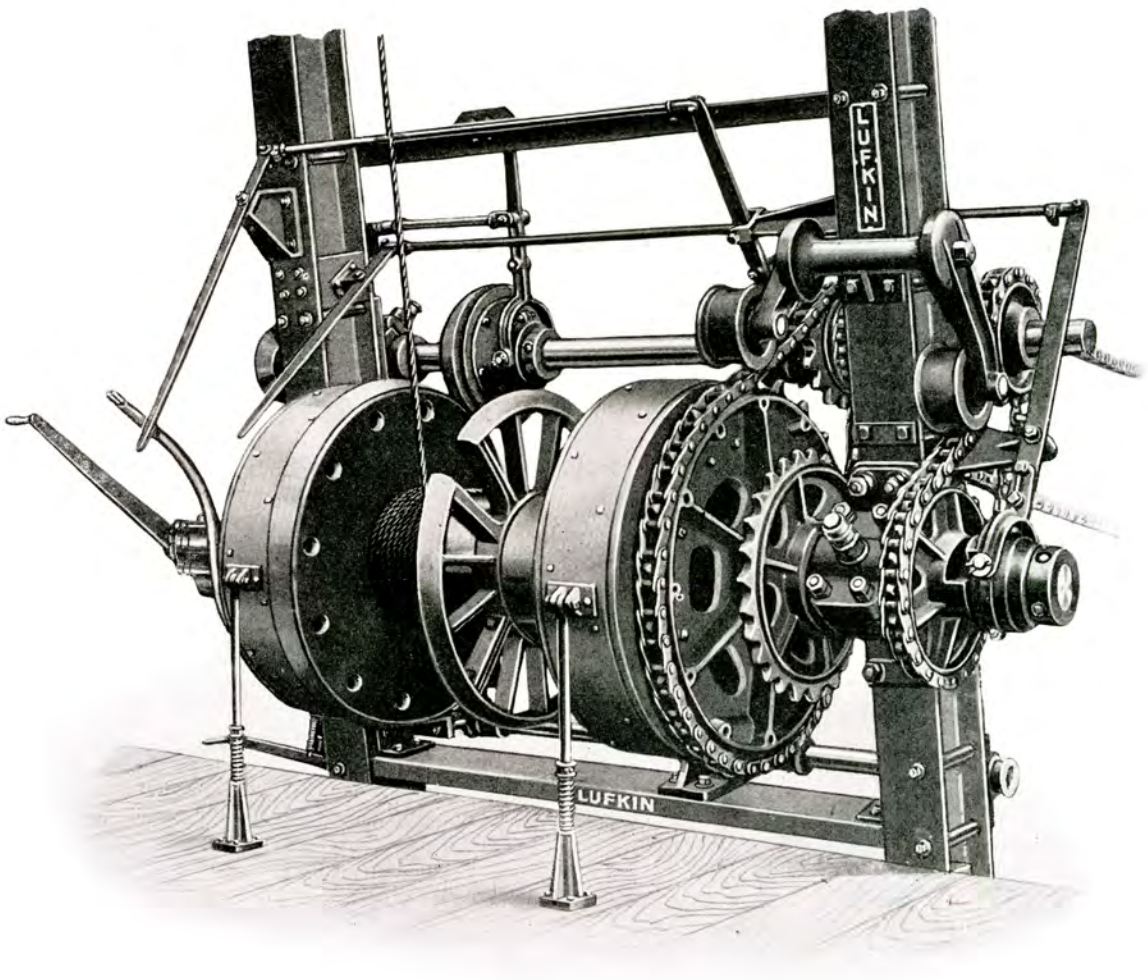


Trout's Expansion Brake Drum and Clutch. Fully patented. Absolutely proof against breaking of drum head from brake band heating

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Lufkin Hoists With Steel Posts





HOIST WITH STEEL POSTS

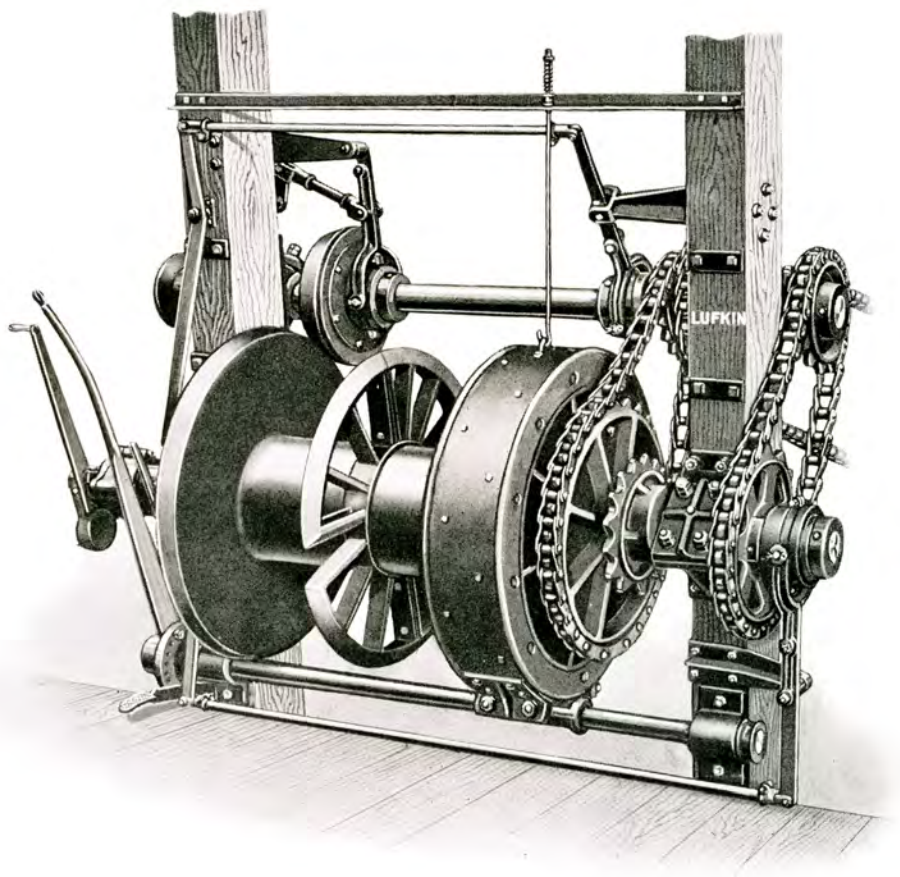
Any of the Hoists shown in the following pages may be furnished with H-Beam steel posts at slight extra cost.

The post shown in line drawing is our standard and fits most derricks and will be furnished unless otherwise specified.

Longer and shorter posts will be furnished to order without extra charge to suit derricks, on receipt of dimensions or manufacturers print of derrick openings.

Lufkin Steel H-Beam Posts are all welded and fitted ready for mounting Hoists in place. They will be found strong and durable, more rigid than wood, and barring accident almost everlasting.

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Lufkin No. 2 Hoist

GENERAL DESCRIPTION

This hoist is extensively used in the Gulf Coast country on wells up to 3500′ in depth. In construction they are in general as shown on page 57, except they have single brake and have a seamless tube drum barrel. Sprockets are for No. 1030 chain. The reverse friction is used to reel rope on or off as well as kick off if load is not heavy enough to bring the line down.

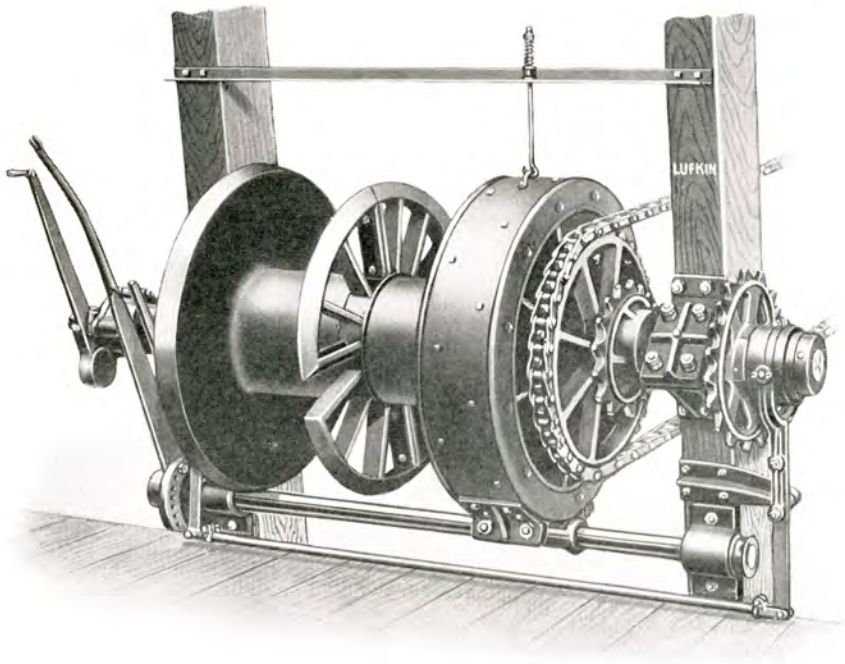
This hoist has two speeds and is very speedy handling rods and tubing and can be used for handling casing with more lines—as 12,000 pounds can be handled on a single line.

SPECIFICATIONS

Line shaft 4″, drum shaft 4″, drum barrel diameter 16″, drum length 35″, expansion brake drum 42″ diameter, 8″ face, roller bearings in drum. Line capacity 3550 feet of 1″ or 6000 feet of ¾″ wire line. Weight 7400 pounds.

Steel Posts furnished at Slight Additional Cost

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Lufkin No. 6 Hoist

(Same as No. 2 Hoist Without Line Shaft)

GENERAL DESCRIPTION

The same general specifications apply to this hoist as on the No. 2 except no line shaft is furnished. Two speeds from unit are provided by chain drive from unit to either sprocket. Where wells have to be pulled often a line shaft hoist will soon pay for its extra cost in time saving—yet this hoist is a very popular seller and gives the best of satisfaction.

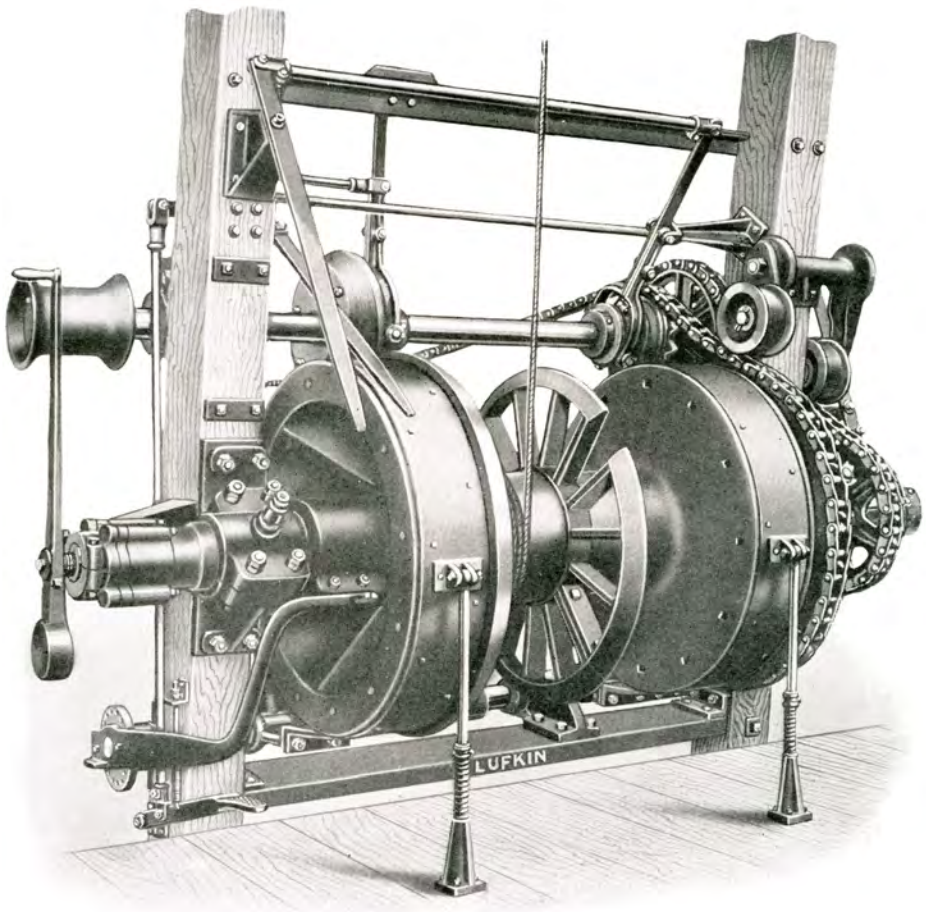
The clutch sprocket on end can be used to drive bull wheels in case of an extensive work-over job.

SPECIFICATIONS

Drum shaft 4″, drum barrel diameter 16″, length 35″, single expansion brake drum 42″ diameter 8″ face, with full roller bearings in drum, line capacity 3550 ft. of 1″, 6000 ft. of ¾″, weight 6200 pounds.

Steel Posts furnished at Slight Additional Cost

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Lufkin No. 52 Line Shaft Hoist

GENERAL DESCRIPTION

For all around work on heavy wells 3000′ to 5000′ this hoist will be found to give the best of satisfaction, being speedy and powerful, handling 20,000 pounds on a single line.

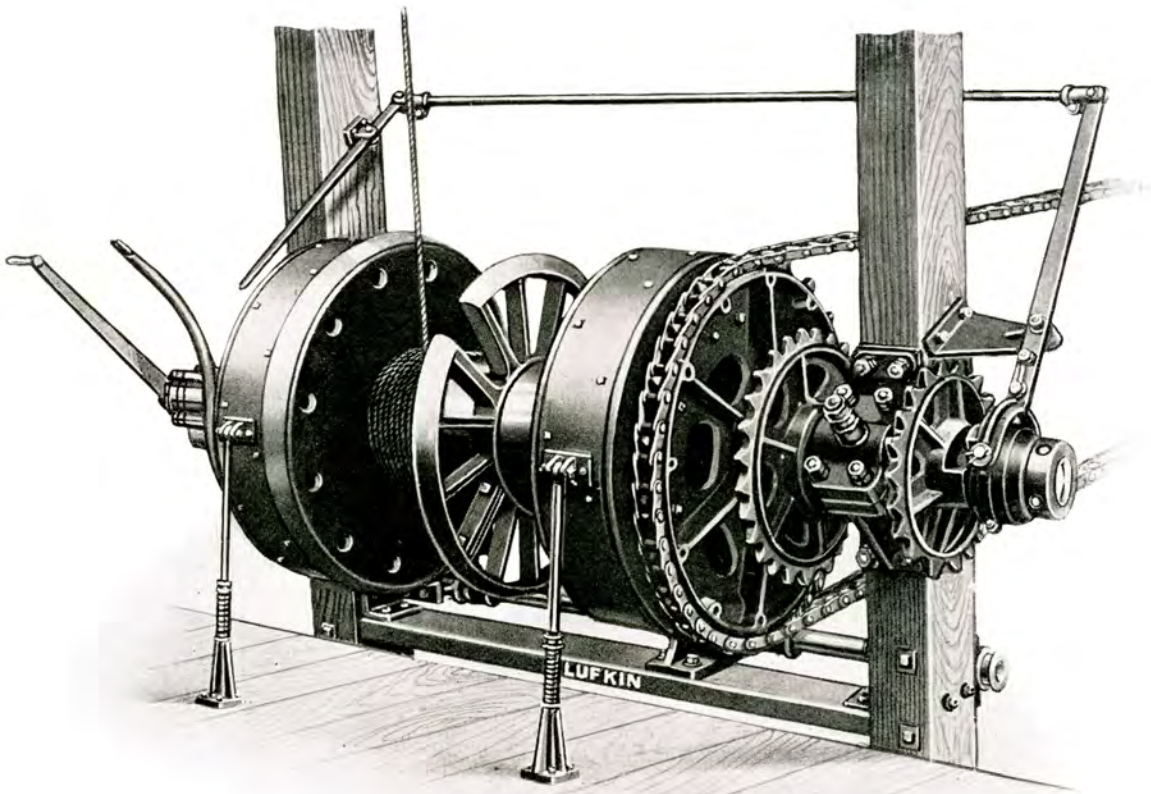
The drum barrel is of cast steel deeply ribbed with flanged ends to which are fastened the drum heads as shown on page 57. It has two speeds, reverse friction, and is provided with No. 1030 Chabelco chain.

SPECIFICATIONS

Line shaft 4″, drum shaft 5″, drum barrel diameter 16″, drum length 35½″ double expansion brake drums 42″ diameter, 8″ face, full Hyatt roller and ball thrust bearings in drum. Line capacity 3600 ft. of 1″ or 6400 ft. of ¾″ wire line. Weight, 12,000 pounds.

Steel Posts furnished at Slight Additional Cost. (See page 58)

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No. 522 Lufkin Hoist

(Same as No. 52 Without Line Shaft)

GENERAL DESCRIPTION

This is the same as the No. 52 Hoist except it is without line shaft—a very popular hoist with the trade, especially on heavy wells that require only occasional work-over.

Many of our customers have standardized on this hoist and have an extra line shaft that can be easily applied (holes are drilled in posts for boxes) when a special work-over job is required.

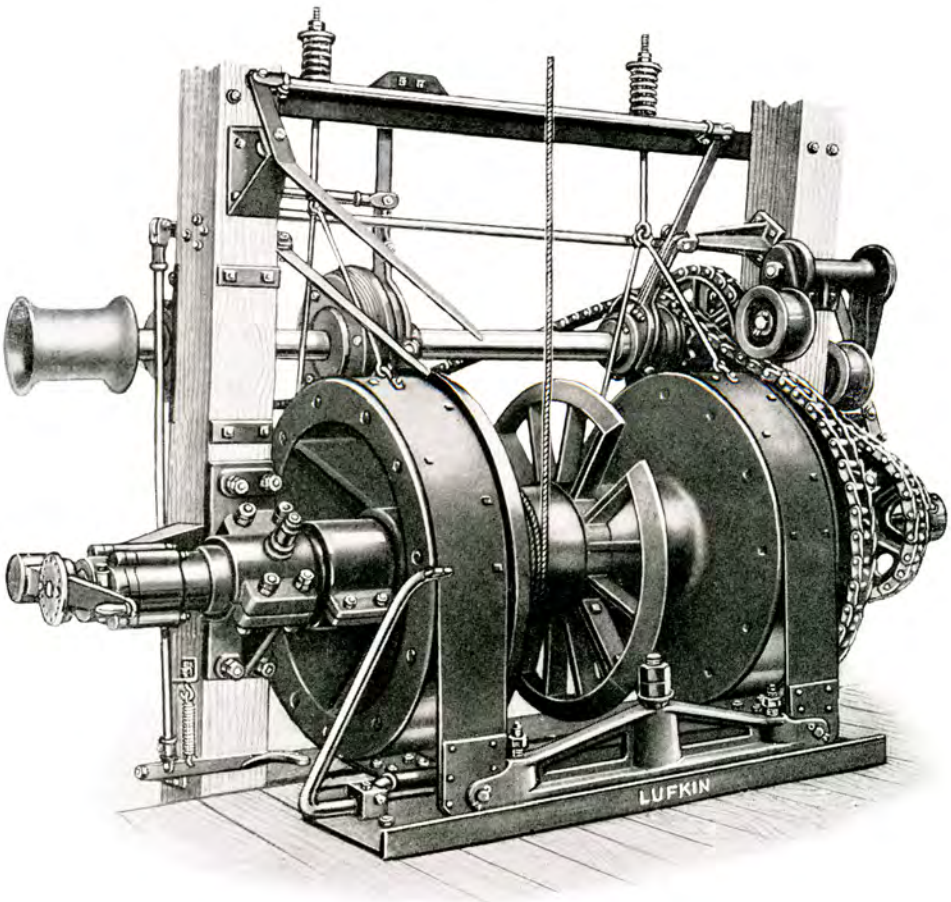
These Hoists will be found very satisfactory for swabbing or cleaning out.

SPECIFICATIONS

Drum shaft 5″, drum barrel 16″ diameter, 35½″ long, expansion brake drums (double) 42″ diameter, 8″ face, full Hyatt roller and ball thrust bearings in drum. Line capacity 3600 ft. 1″ or 6400 ft. ¾″ wire line. Weight 11,000 lbs.

Steel Posts furnished at Slight Additional Cost

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Lufkin No. 62 Line Shaft Hoist

GENERAL DESCRIPTION

This is the same Hoist as No. 52 except it has the equalizer brake popular in California and elsewhere.

It is strictly a heavy duty hoist and will handle 20,000 pounds on a single line.

Many operators use this hoist as auxiliary stand-by equipment when drilling with rotary fastening dead line to drum and using this hoist should rotary hoist fail.

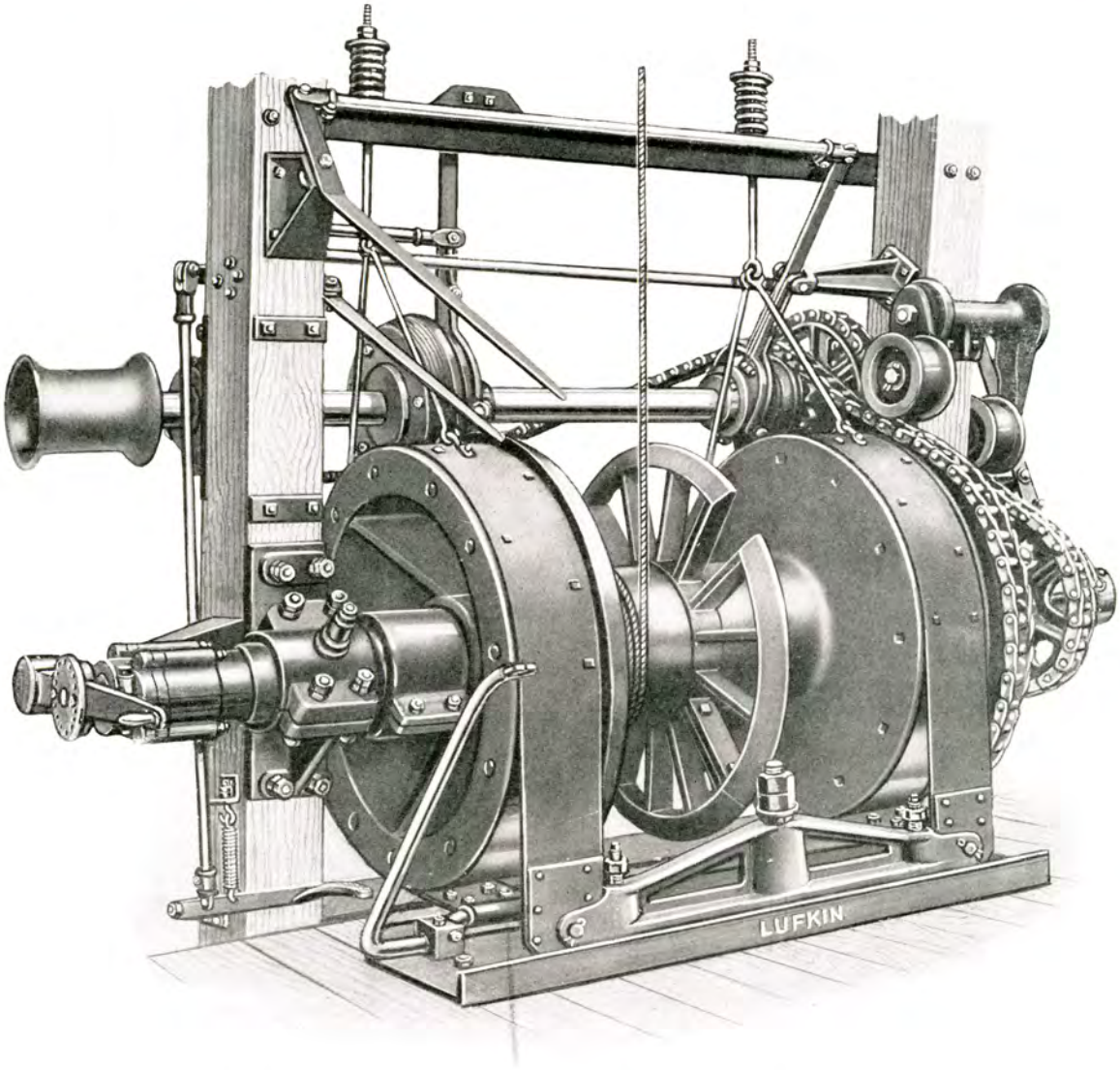
SPECIFICATIONS

Line shaft 4″, drum shaft 5″, drum barrel diameter 16″, drum length 35½″. Double expansion brake drum 42″ diameter, 8″ face. Hyatt roller and ball thrust bearings in drum. Line capacity 3600 ft. 1″ or 6400 ft. of ¾″ wire line. Weight 12,500 lbs. Equipped with rugged well designed brake equalizer.

This hoist also furnished without line shaft, and known as Lufkin No. 622.

Steel Posts furnished at Slight Additional Cost

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No. 141 California Type Hoist

GENERAL DESCRIPTION

Our most popular hoist handling 26,000 pounds to 30,000 pounds on a single line is frequently done on the heavy deep wells of California and Mid-Continent fields.

It has all the characteristics of the No. 62 Hoist except larger throughout.

Any or all of these Hoists can be used with standard rigs as well as Units, as the distance from well center line to center of sprocket drive is same as when using calf wheel.

SPECIFICATIONS

Line shaft 5″, drum shaft 5″, expansion brake drums 48″ diameter, 8″ face, drum barrel 16″ diameter, 35½″ long. Hyatt roller and ball thrust bearings in drum. Floor anchored equalizer. Line capacity 4340 ft. of 1″, 6960 ft. of ⅞″, 9500 ft. of ¾″ wire line.

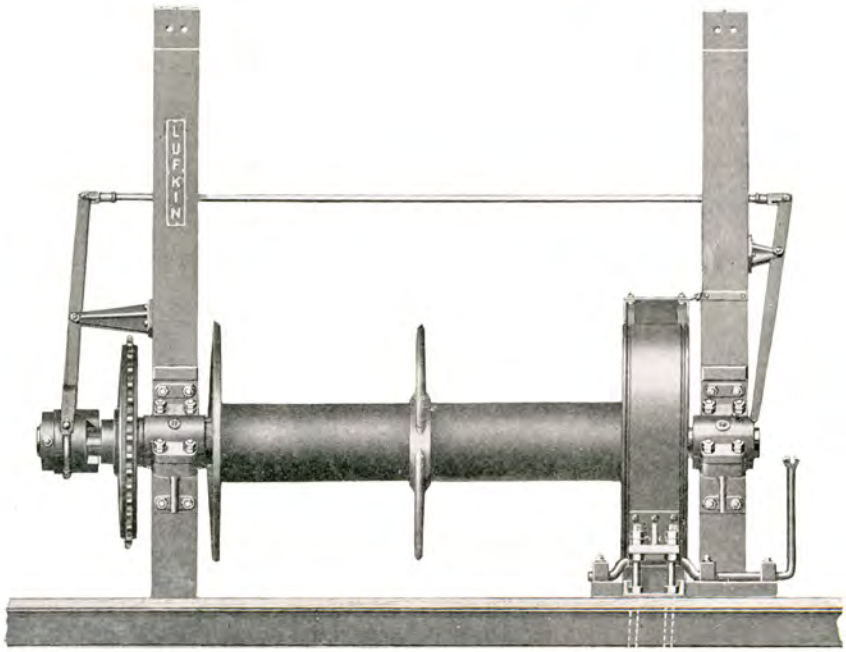
Steel Posts furnished at Slight Additional Cost

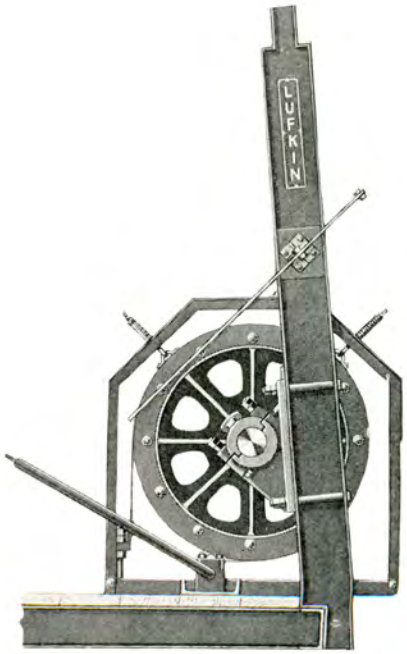
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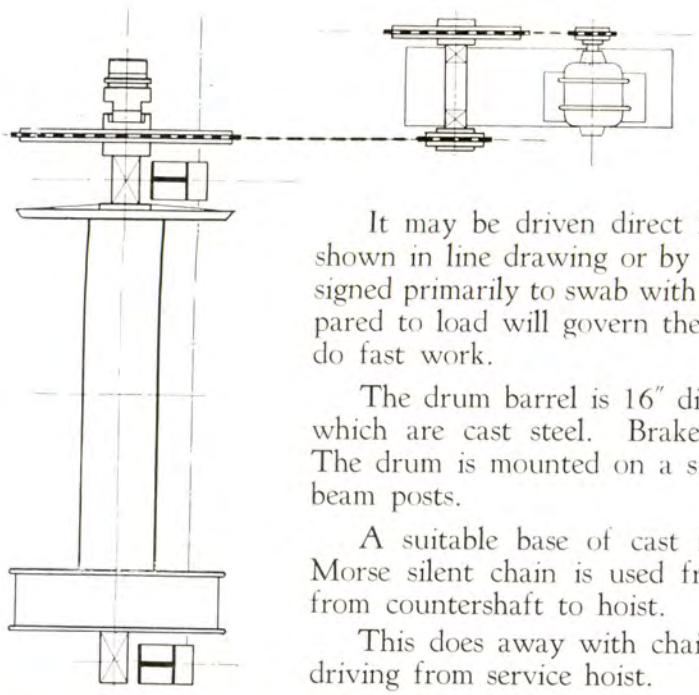
Lufkin Swabbing Hoist No. 76

(Placed in Bull Wheel Space)

Driven By Independent Power or By Chain Across Derrick Floor from Hoist.







Lufkin Swabbing Hoist illustrated above is a swabbing hoist we have designed to take the place of the bull wheels and to hold all line required, be faster and more powerful, being of more substantial construction.

It may be driven direct from service hoist or by an independent motor as shown in line drawing or by a steam or gas engine if desired. This hoist is designed primarily to swab with in Mid-Continent fields. The size of motor compared to load will govern the speed—some wells require 100 to 125-H. P. to do fast work.

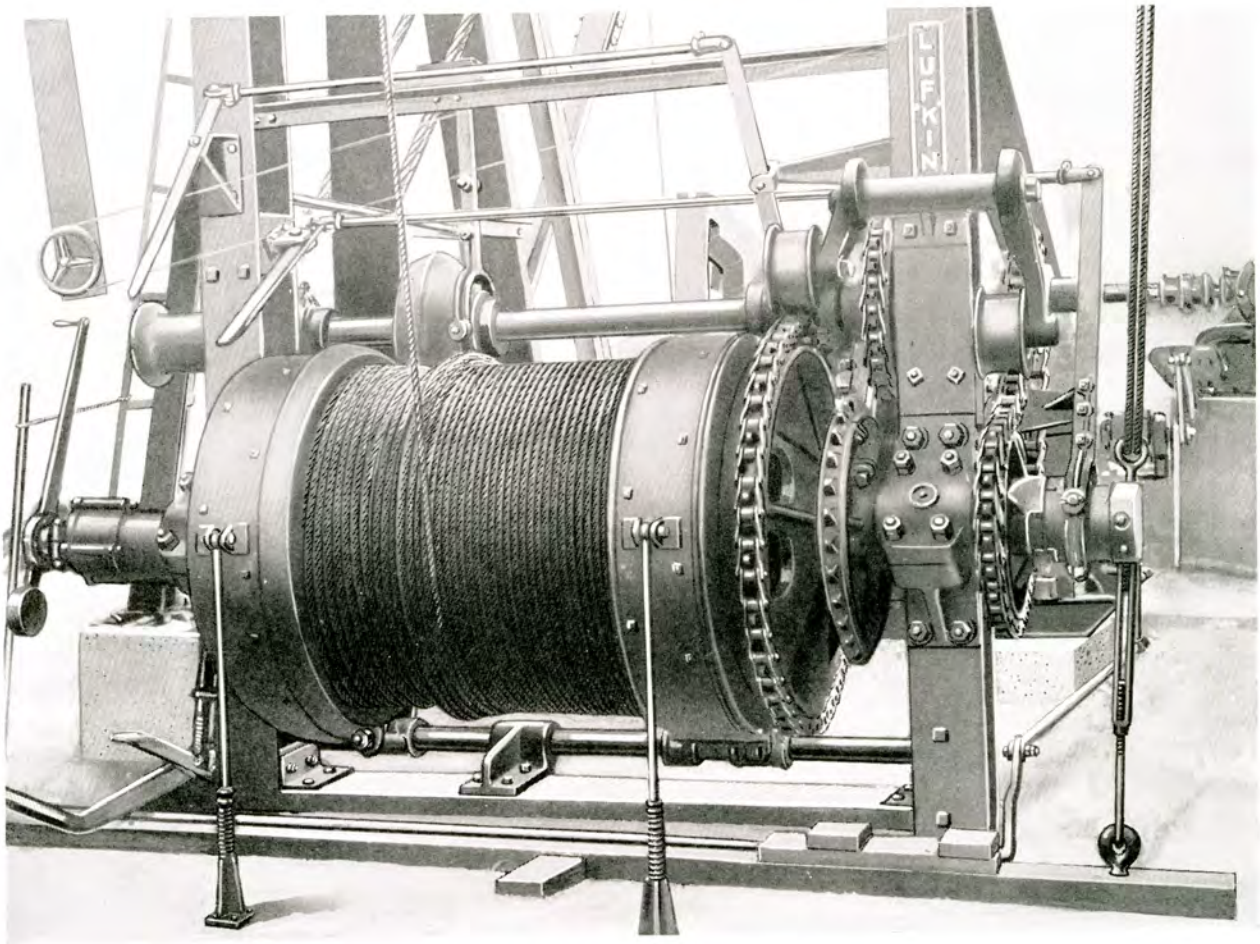
The drum barrel is 16″ dia. ¾″ thick, and 6′-6″ between heads both of which are cast steel. Brake drum is 48″ x 10″ with Trout expansion rim. The drum is mounted on a six-inch shaft set in heavy boxes bolted to 10″ H-beam posts.

A suitable base of cast iron for motor and counter shaft is furnished. Morse silent chain is used from motor to countershaft and No. 1030 chain from countershaft to hoist.

This does away with chain across derrick floor which is necessary when driving from service hoist.

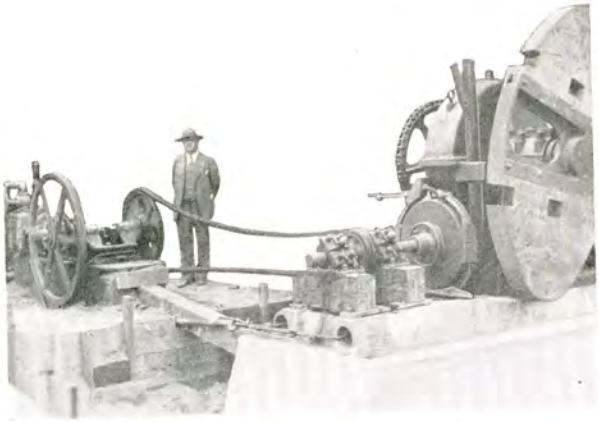
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LUFKIN PERMANENT EQUIPMENT



Swabbing with Lufkin Hoist No. 52

Lufkin Hoists are Regularly Used for Swabbing They are Fast and Powerful



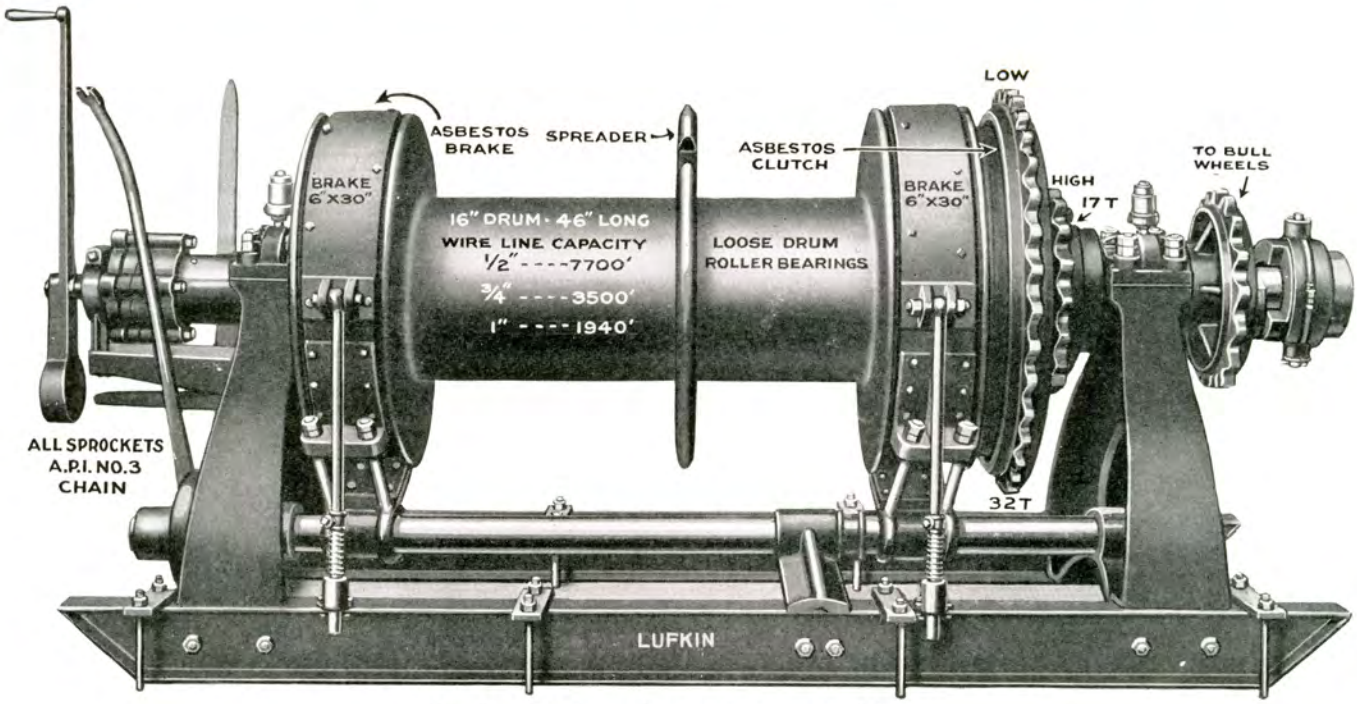
Lufkin Unit Connected to Steam Engine

Lower left shows steam engine drive to Lufkin Unit and Hoist commonly used in California as stand-by equipment in event electric drilling rig fails or current goes off while drilling casing.

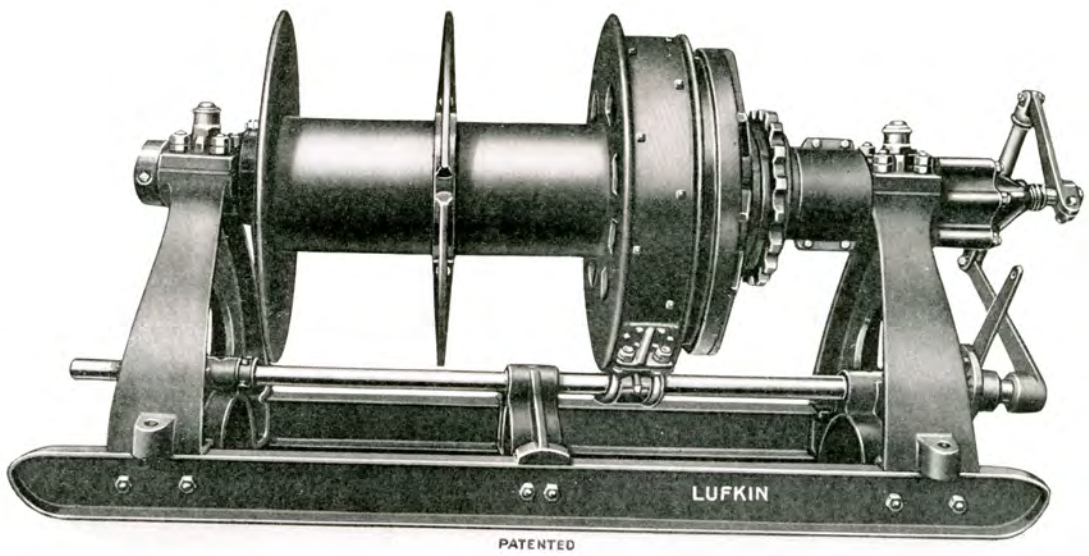
Later electric motor is mounted on Unit for pumping. Steam is obtained from auxiliary boilers used for heating, cleaning and other purposes around well.

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LUFKIN PERMANENT EQUIPMENT



No. 31—Oklahoma Type in Self-contained Frame



Lufkin No. 5—Sand Reel

No. 31 Oklahoma Type Hoist

This type hoist is used in Oklahoma extensively, one of our original hoists intended strictly for rods and tubing has been greatly improved, having roller bearings in loose drum, also ball thrust bearings in place of bronze washers. Better thrust and shaft bearings are also provided. The hoist is driven from Unit or Standard rig and is used as a countershaft to bull wheels for drilling and cleaning out. We do not recommend it for over 3000-foot wells, it will however, give excellent, satisfactory service, being speedy and powerful. Shaft is 3-15/16", drum 16" diameter, brake drum 30" x 6", non-expansible. Alemite lubrication is provided.

Lufkin Sand Reel No. 5

Built like our Oklahoma Hoist, except drum is keyed to shaft and sprocket clutch is loose, with long bronze bushing thoroughly lubricated. Otherwise this machine is the same type of construction as our Oklahoma Hoist, except lighter. The drum is 12" diameter with 36" flanges and will hold 6,000'-9/16" wire line. Shaft is 3-15/16" diameter. To those wanting a thoroughly built sand reel, this will be found to give satisfaction.

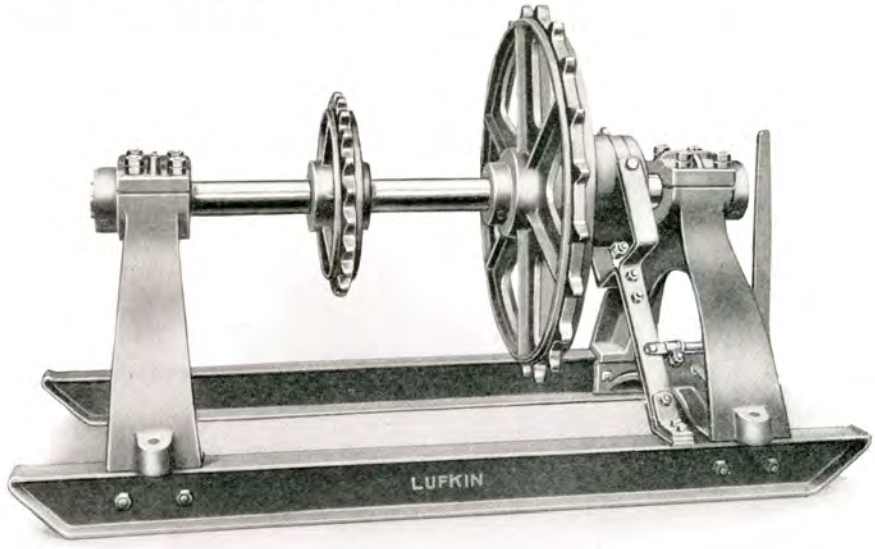
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Lufkin Rod Line Weight



Patents Pending

We have designed the swivel rod line weight, as shown, to be used in place of the "C" link and to give just enough weight on line to come down fast, unspooling the drum. With roller bearings in drum, this weight will act surprisingly quick and be a big time saver, especially pulling rods. It is also much handier than a "C" link, more positive and safer in changing hooks and elevators.



COUNTERSHAFT FROM HOIST TO ROTARY

Usually a rotary can be run directly from our hoist for cleaning out etc., but for convenience and speed this self-contained countershaft will be found handy to have on the lease. It can be run from line shaft or drum shaft as may be desired. Shaft is key-seated between bearings allowing easy line up with rotary

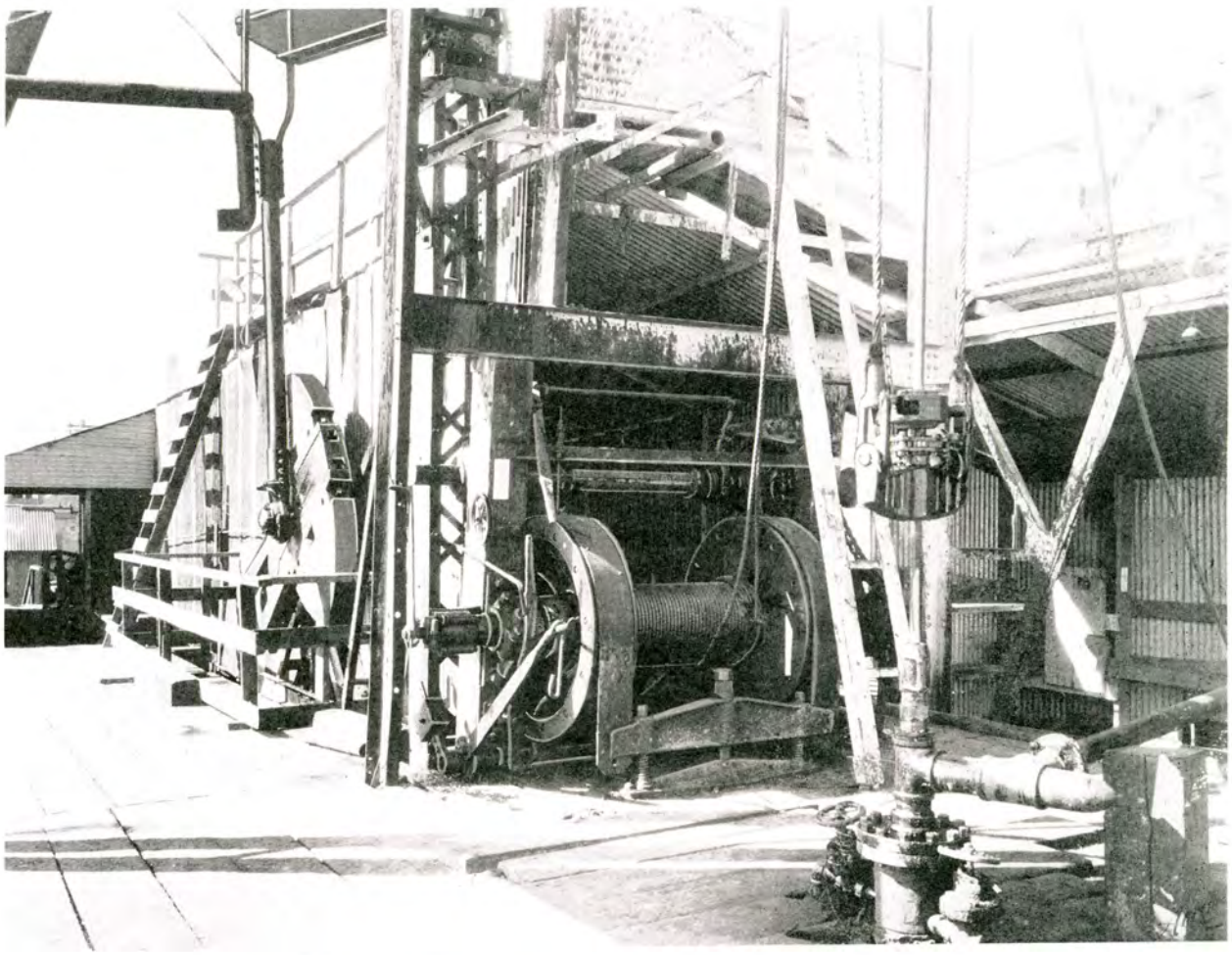
Steel Sprocket for Bull Wheels

This all-steel sprocket is designed to take the place of a cast iron split sprocket, that, owing to unevenness of pipe on bull wheels, correct pitch could not be maintained and many accidents followed. The new sprocket has solid rim and clamp hub with split bushing, sprocket being large enough to slip over rivet heads and clamp solidly on pipe. This sprocket can be furnished with 37 teeth for 18″, 16″ or 13″ O. D. bull wheel drums.



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LUFKIN PERMANENT EQUIPMENT



Typical Standard Rig Using Lufkin Hoist, Beam, Pitman and Lufkin-Trout Counter-Balanced Crank

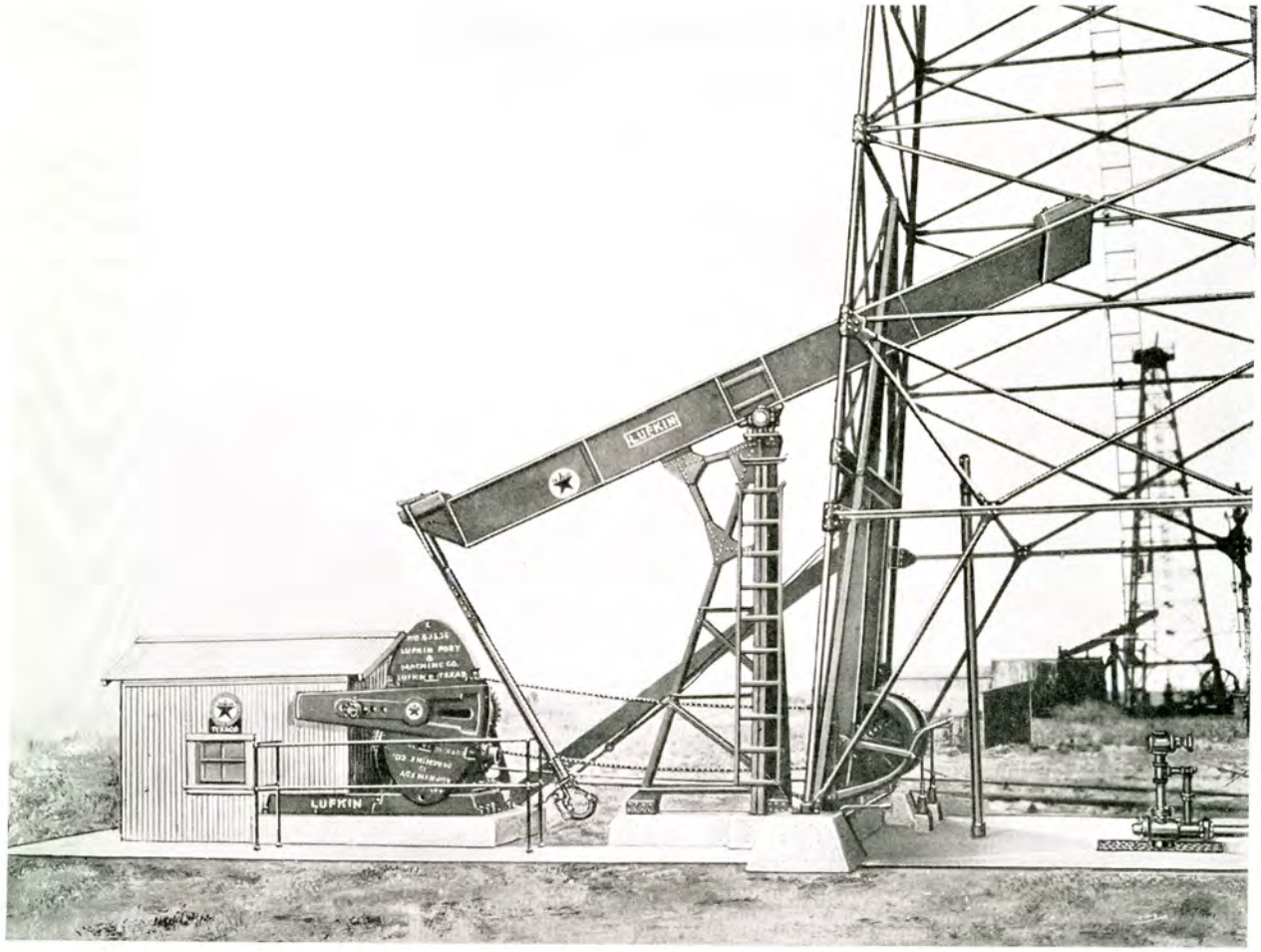
Trout Counter-Balanced Cranks, Lufkin Hoists, Samson Posts, Walking Beams and Pitmans are extensively used on Standard Rigs in the various fields of the world.

See Article on Counter-balancing, page 11

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Samson Posts, Walking Beams, Pitmans and Auxiliary Equipment

For LUFKIN Units and Standard Rigs



Typical West Texas installation—Crank is balanced for pulling rods—Note the difference between the rig at the rear and the Lufkin in front. Note the grating around well—oil is drained off and saved.

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Lufkin Samson Posts

Set Outside of Derrick—Clear of Production Hoist—
Most Rigid Post Made



No 1-HEAVY DUTY POST

HEIGHT- BASE TO CENTER
TRUNNION 15'3"
SAME FOUNDATION SETTING
FOR EITHER POST



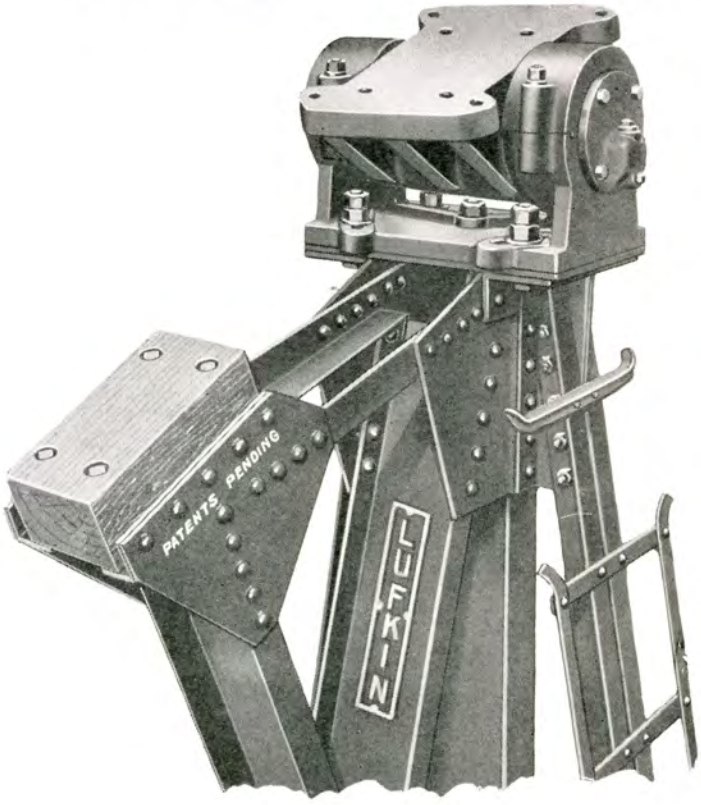
No 1-STANDARD POST

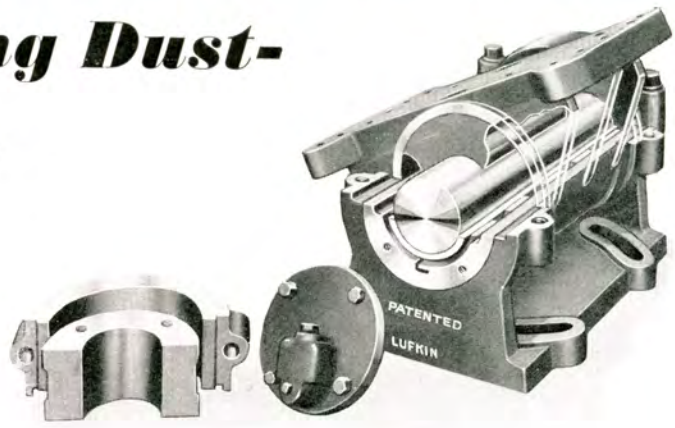
These posts have stood the severest tests on the deepest wells, they are not only riveted but welded also—they will not loosen up if anywhere near proper alignment.

See Page 74 for Nos. 2 and 3 Post Specifications
For Cable Code See pages 82-83.

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LUFKIN *Self-Oiling Dust-Proof Center Iron*





Lufkin Dust-Proof, Oil Bath Center Iron

Bronze Bearing 24" Long

(Furnished When Specified at Extra Price.)

The Lufkin self-oiling, dust-proof Center Iron meets the need for long life and strength where needed. This center iron requires practically no attention and is filled with oil about twice yearly under ordinary conditions. Renewable bronze bearings insure almost indefinite life. The view below also shows fine, heavy upper structure of the Lufkin Samson Post.

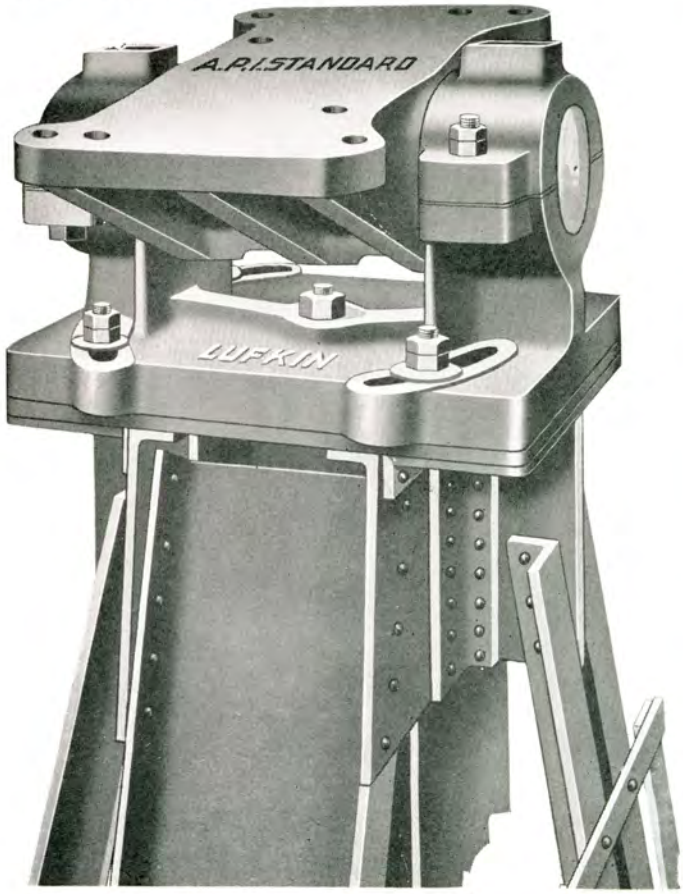
A. P. I. Standard Center Iron

Regularly Furnished With Lufkin Posts and Beams

Bearings are bored straight with boring bar and in absolute alignment.

Saddle is planed and trunnions are turned on centers. Mis-alignment impossible.

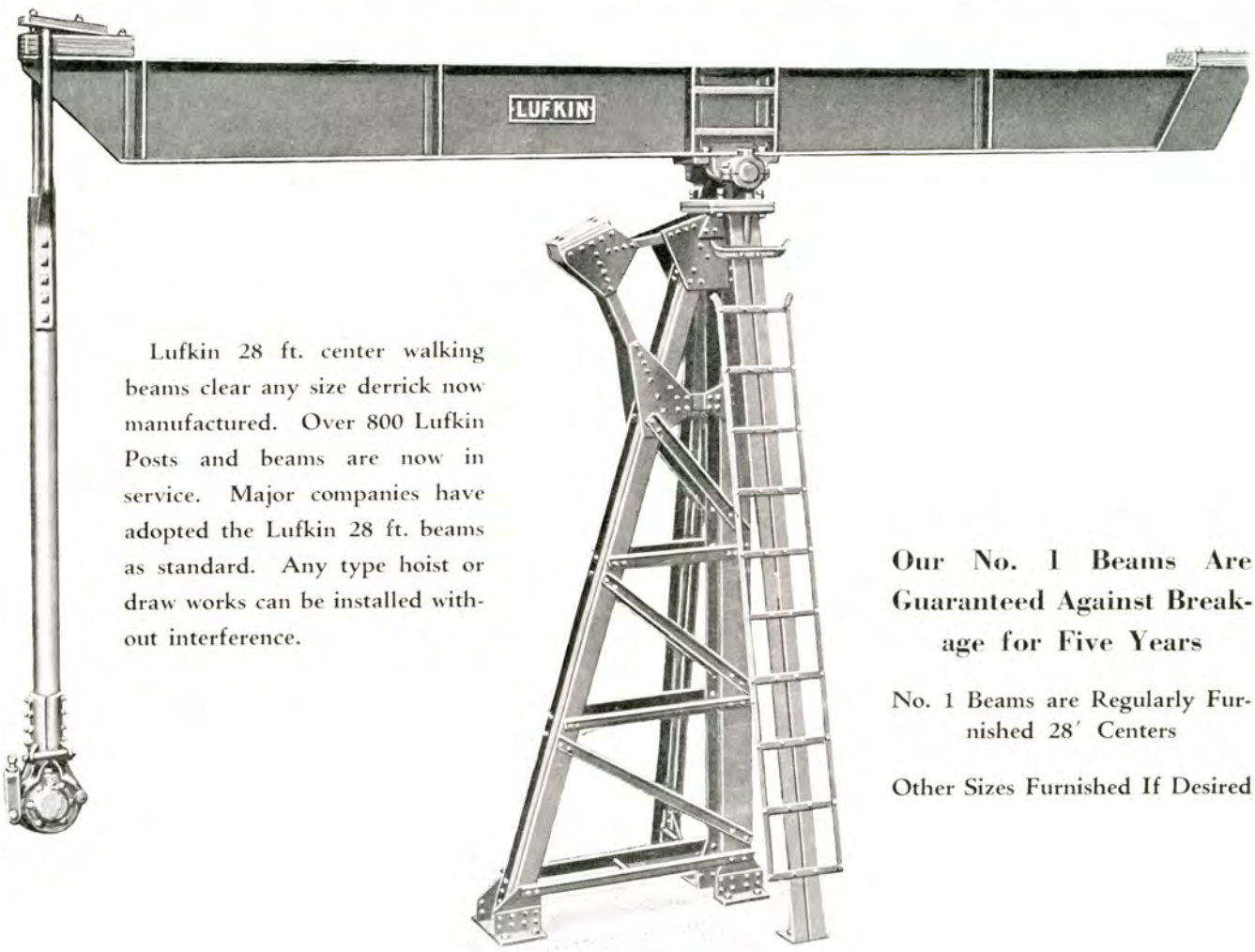
The Lufkin Center Iron has swivel base to allow beam to clear crank so hoist operator can "see clear" when pulling rods and tubing.



Plain Center Iron and Saddle

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No. 1 Lufkin Samson Post, Beam and Pitman Assembly



Lufkin 28 ft. center walking beams clear any size derrick now manufactured. Over 800 Lufkin Posts and beams are now in service. Major companies have adopted the Lufkin 28 ft. beams as standard. Any type hoist or draw works can be installed without interference.

Our No. 1 Beams Are Guaranteed Against Breakage for Five Years

No. 1 Beams are Regularly Furnished 28′ Centers

Other Sizes Furnished If Desired

The Lufkin Post assembly, which includes Samson Post, Beam and Pitman, is manufactured in four sizes, designed to suit a particular unit and type of installation. The Lufkin "self-supporting" Samson Post is of heavy construction and designed to stand the most severe well conditions.

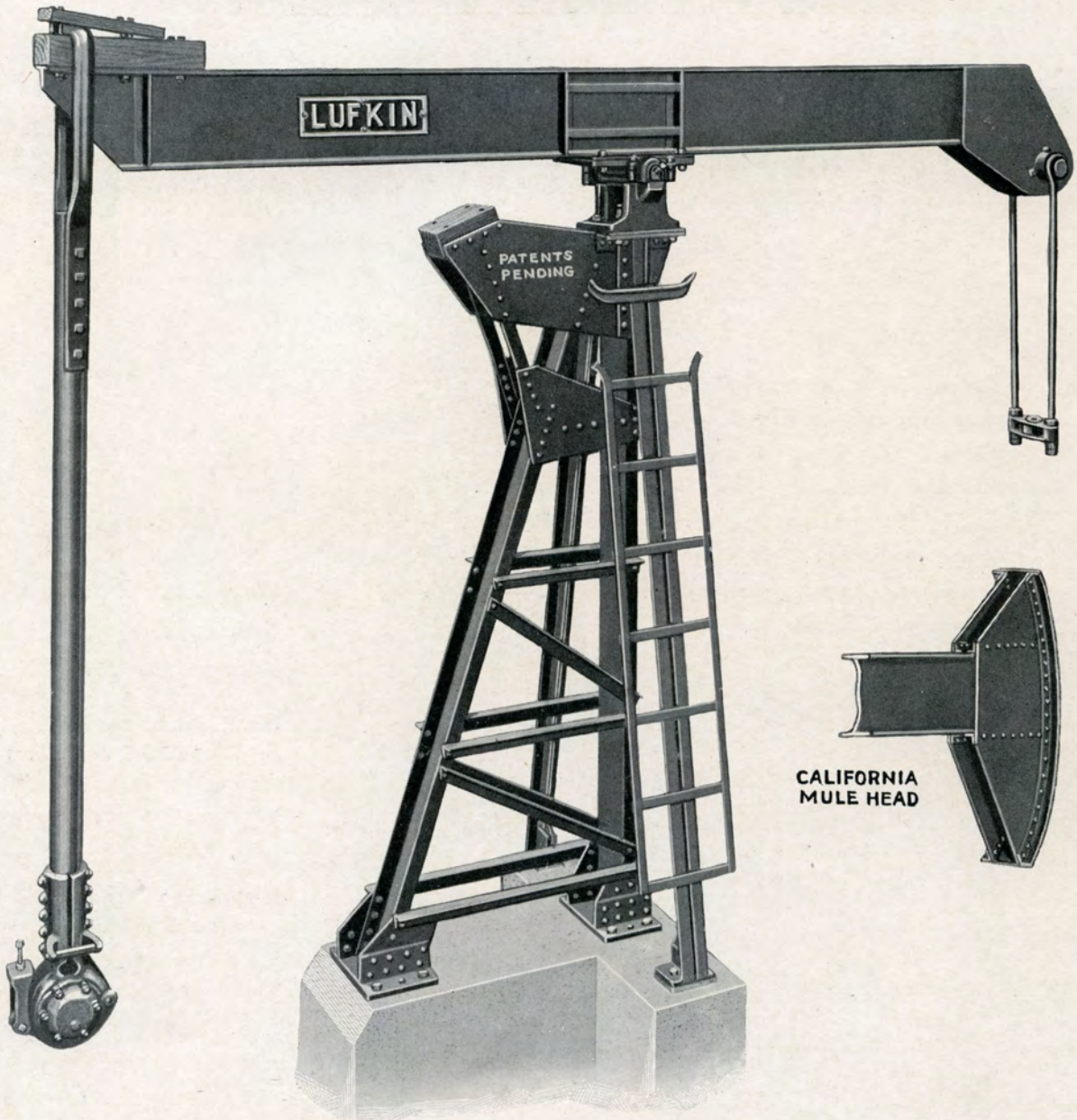
Lufkin Beams are all of the "I"-Beam type, electrically welded throughout.

The Trout self-aligning, self-oiling, dust-proof pitman is a part of the Lufkin assembly. The Trout Pitman is universal, oil tight, and the box always stays on the pin.

The Lufkin Post assembly is designed as a unit and in balance and is most efficient when purchased as a whole.

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No. 2 and 3 Post Assembly



NO. 2—BEAM AND POST ASSEMBLY

Height, Samson Post base to center of saddle trunnions, 12′.

Walking Beam Centers 8′.

Welded Beam—Section 16″ 58-lb

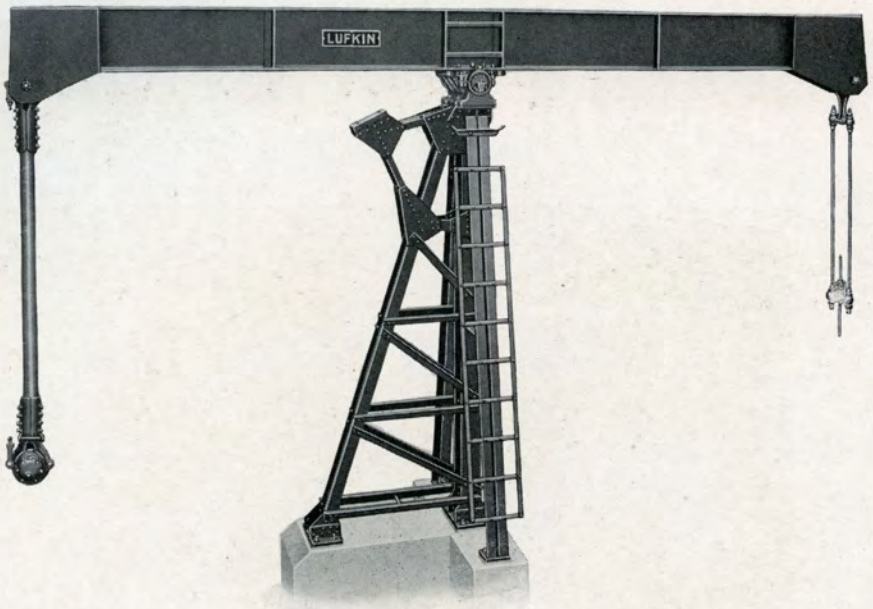
NO. 3—BEAM AND POST ASSEMBLY FOR BABY UNIT

Height, Samson Post base to center of saddle trunnions, 8′ 2½″.

Walking Beam Centers 7′.

Welded Beam—Section 12″ 40-lb.

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Lufkin Center Line Walking Beam, Pitman Beam Bearing and Full Universal Rod Hanger

Several attempts have been made to design a center line beam—retaining the old fashioned friction producing stirrup and regular head connections, trying to fit every hanger made, which have met with little success.

Engineers are familiar with the inefficiency of the old stirrup type beam which shortens polish rod stroke, also the T-head which bends the rods at every stroke, and are demanding improvement.

We are pleased to offer our new center line beam with our pitman type rear bearing in the beam that is self lubricating and oil tight, our new oil bath center iron, see page 72, and our full universal rod hanger all in combination that judging by the reception it has received by the trade, we believe is a beam of exceptional merit.

The beam itself is the same section as our regular No. 1 beam with heavy plates welded on each end to take the bearings .

The oil bath center iron with 5″ x 24″ bearing is shown on page 72 and should be used with this beam.

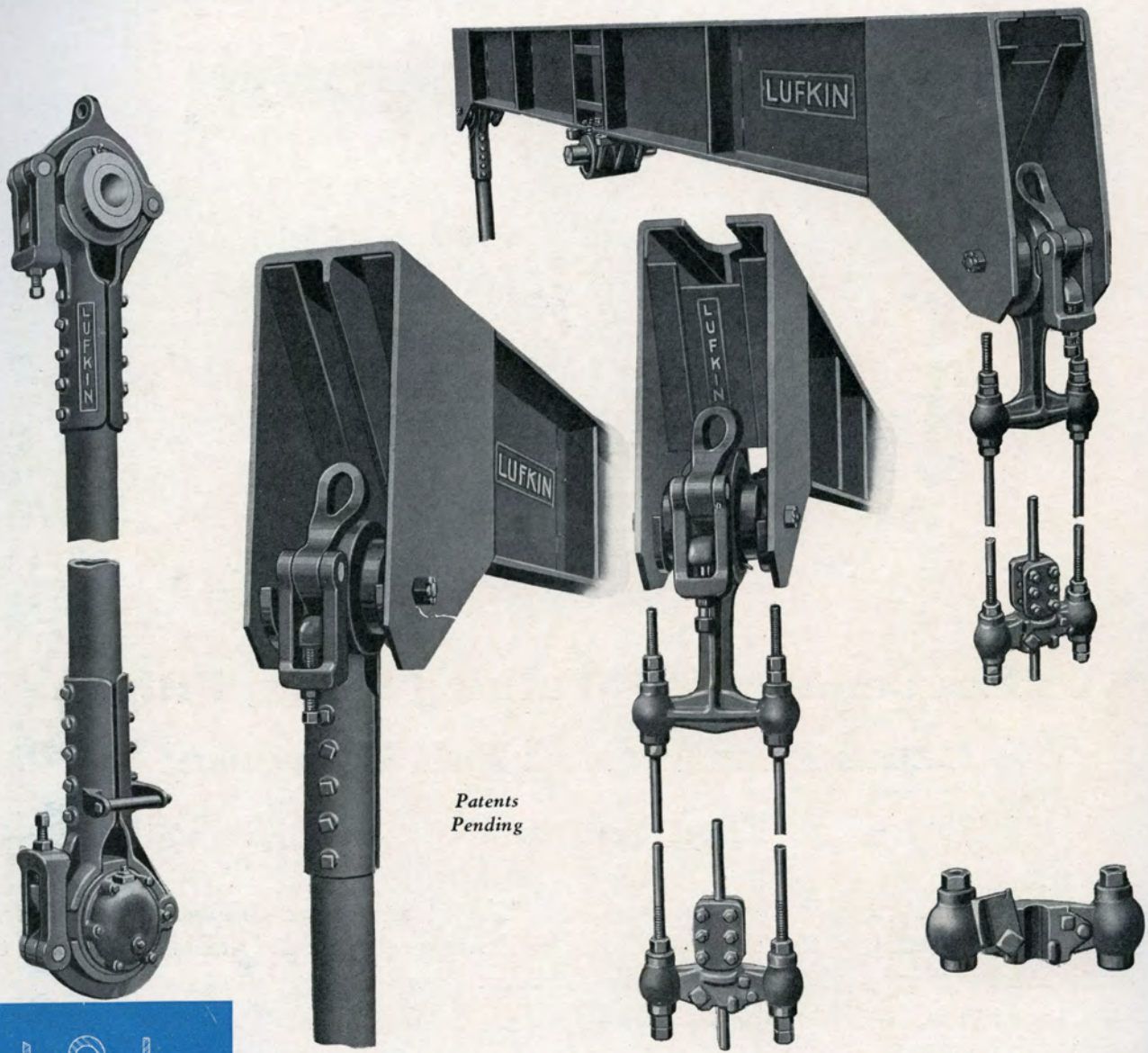
The tail or rear bearing is 3-7/16″ x 9″ built on same principle as our pitman which is so favorably known and also with a shackle, can be removed in a few moments time. While there is only a slight movement of this bearing it is three inches longer than crank pin and with bronze liner should last indefinitely. It is oil tight and is lubricated by Alemite from the center of the beam at top of ladder. (Pipes are not shown).

The new beam hanger bearing is the same size bearing and is lubricated by the same method, from center of the beam at top of ladder.

The new beam hanger is simplicity itself and illustrations show plainly its design and construction. We are retaining the T-head bearing for

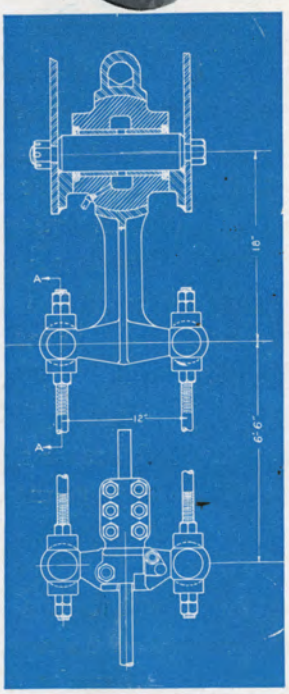
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LUFKIN PERMANENT EQUIPMENT



Patents Pending

Lufkin Universal Pitman and Rear Beam Bearings for Lufkin Center Line Beam





Section "A-A"

SECTIONAL DRAWING LUFKIN UNIVERSAL PITMAN AND ROD HANGER BEARING CONNECTIONS

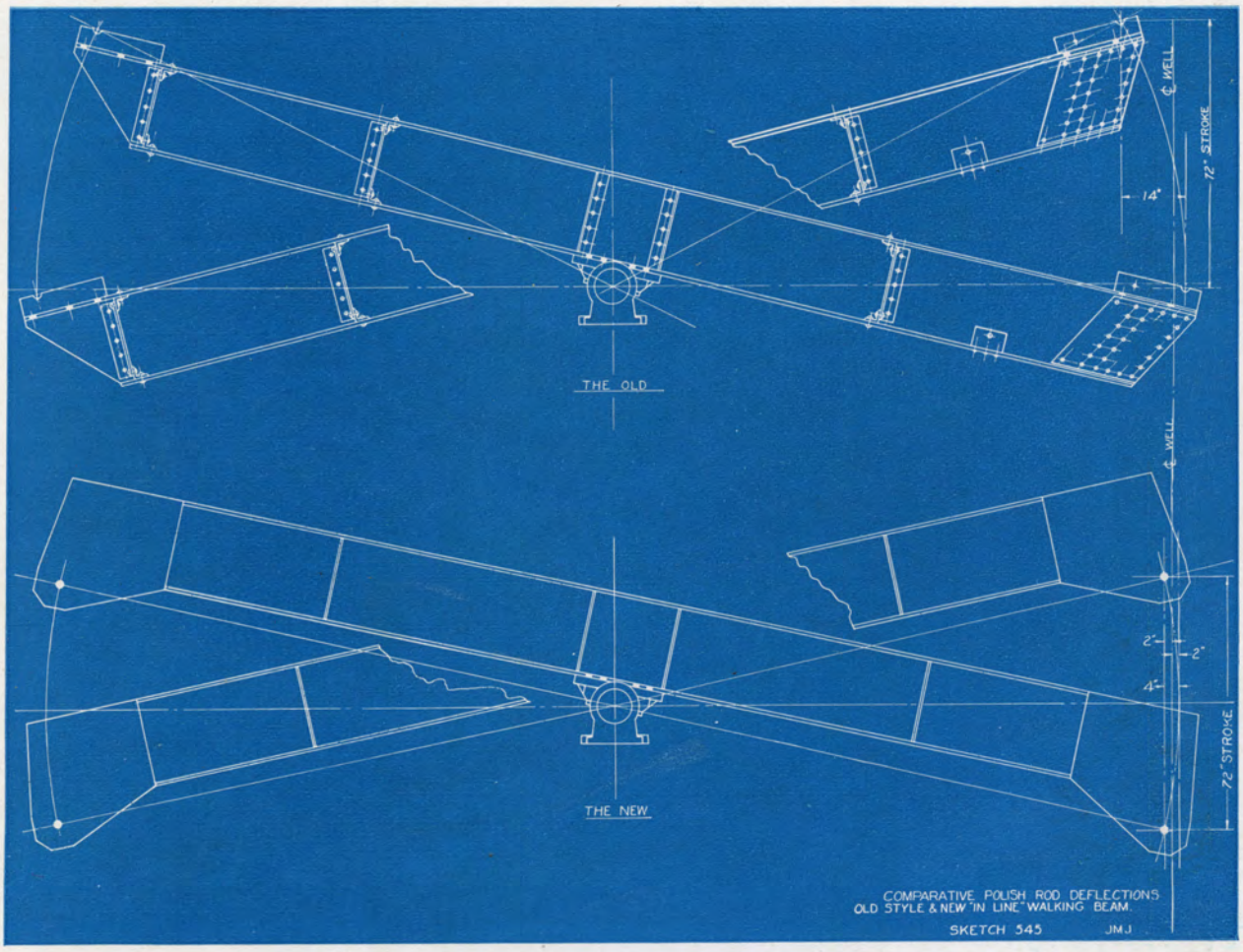
temper screw and by removing one bolt the whole hanger can be removed complete intact and temper screw used in the regular way.

The new hanger and bearing strap accommodate itself to any mis-alignment between polish rod and beam, yet there is no wear except on large bearing as shown.

All parts of rear bearing and rod hanger are steel. Our beams are 12″ wide on top and if desired a guard rail full length of beam can be furnished at slight extra charge.

See diagram of beam working points on page 77.

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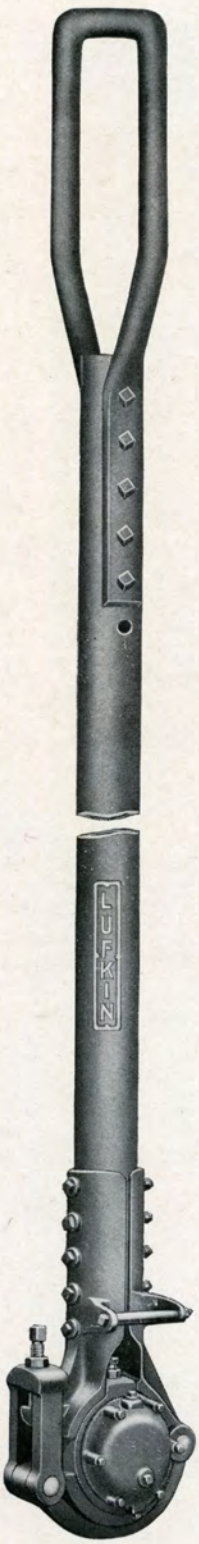


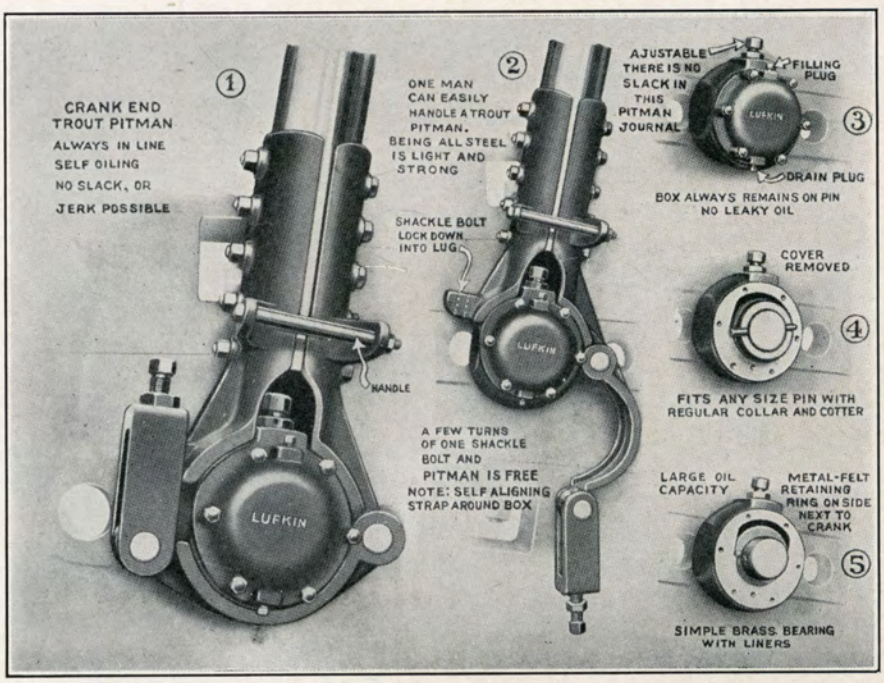
Lufkin Center Line Beams

The old beam and the new beam. Note what the old beam does to the polish rod—14″ bend. The center line of the new beam is only 2″ each way from center of well at greatest bend. There is no loss in leverage and consequently a saving in power.

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Trout Universal Pitman





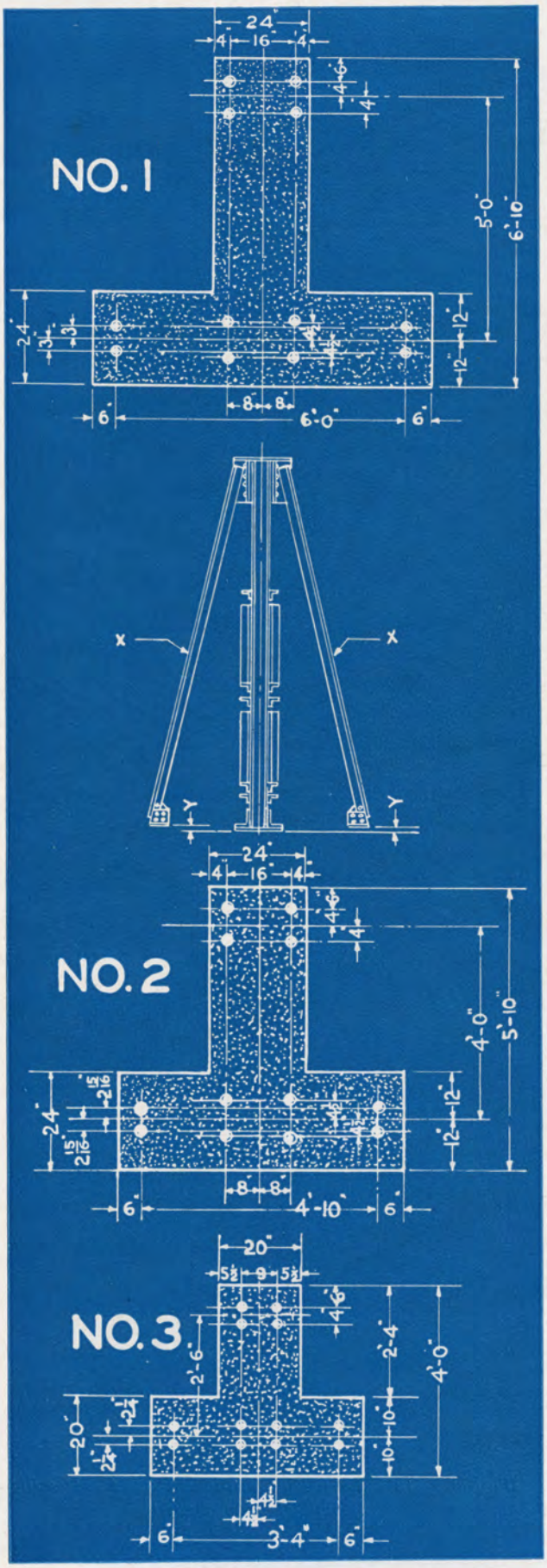
Trout Universal Pitman (Patented)

The Trout Universal Pitman is self-oiling — oil tight — dust proof — self-aligning and is always on the pin. Loosening shackle bolt unstraps Pitman from box and is easily adjusted. Handled easily by one man.

Carried in stock in A. P. I. sizes but can be furnished for any size pin.

The Trout Universal Pitman Is Used As Standard Equipment by Most Large Operators.

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Directions for Setting

Lufkin Samson Posts

Experience has demonstrated that many cases of faulty operation of Lufkin Units are due to careless or incorrect alignment of walking beam and Samson Post. As an aid to correcting this trouble we offer the following suggestions:

(1) See that the foundation is built on the well center as our drawings specify.

(2) The main post or "A" frame should be leveled up by wedging before grouting; main post should be plumb.

(3) The "A" frame should then be plumbed crosswise of well center. Adjustment and fixing of frame in this position is obtained by means of the side braces (X). These are purposely made short so that when adjusted there is a gap (Y) between the brace foot and the concrete block. This gap is not to be grouted in until after the frame is properly plumbed and the brace bolt nuts are tightened down.

Observance of the foregoing points will result in better satisfaction.

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"V" Belt Drives

The use of "V"-Belt Drives, in many instances, is the logical and most economical driving medium for Lufkin Units. This is particularly true of the LUFKIN HERRINGBONE UNIT.

Engineers have been quick to recognize and demand this type of drive.

Sheaves up to 72″ diameter inclusive and "V"-Belts suitable for any size drive are available from Lufkin stock. The sheaves are manufactured in our own plant while the "V"-Belts are purchased from the manufacturers. Several types are stocked in Lufkin but most any particular manufacturers' rope can be furnished. There are a number of good ropes or "V"-Belts on the market, two of which are illustrated below.

While each Manufacturer claims some particular exclusive construction feature the advantages of this type drive may be briefly set forth as: (a) Requiring minimum space, (b) Positive speed, (c) Lowered maintenance, (d) Easy on bearings, (e) Less adjustment and makes for a quiet, clean operation.

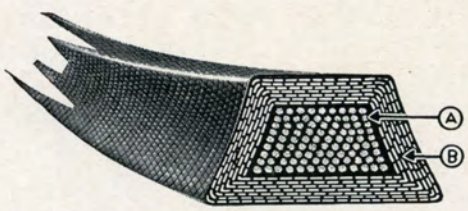


Sheaves up to 72″ Diameter inclusive furnished from Lufkin stock.



DAYTON COG-BELT

Illustrating flexibility. A more detailed description will be furnished upon request.



GATES VULCO ROPE

Illustrating three principal construction points. Descriptive pamphlet upon request.

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LUFKIN PERMANENT EQUIPMENT



ALLPAX comes in two forms — in flakes for general purposes, and in coil form for the hard-to-get-at stuffing box

ALLPAX

THE PACKING THAT "PACKS ALL"

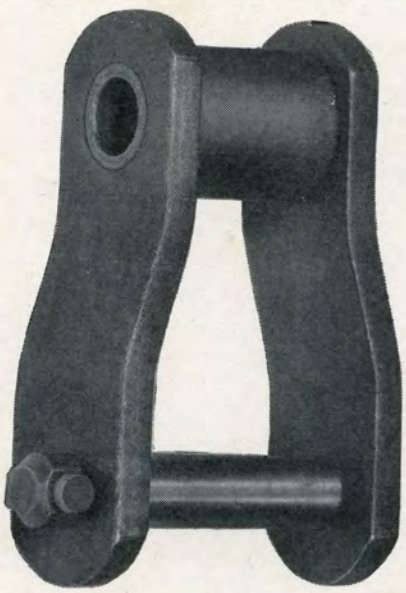
Reg. U. S. Pat. Off.

the packing for every purpose

ALLPAX—The universal packing—consists of an intimate mixture of long, tough fibres of asbestos, thin flakes of the highest grade of anti-friction metal, minute scales of graphite, and a special non-liquid, heat-proof lubricant — compounded in proportions shown by experience to result in a long-wearing, leak-proof, non-scoring packing for severe service.

ALLPAX eliminates packing waste and saves time and labor in packing. When worn so that the gland is taken up entirely, it is not necessary to replace with new packing—simply back off the gland and add a sufficient amount to fill the stuffing box. ALLPAX conditions itself to a glassy, non-scratching surface. Whether freshly put in place or after long service, it is guaranteed not to score the shaft. Its low friction cuts down power losses and increases efficiency of the unit on which it is used.

LUFKIN UNITS are packed with ALLPAX



REX CHABELCO

STRENGTH—HARDNESS—PRECISION
THE UNIT LINK—UNIFORMITY

NO. 1030 — Pitch, 3,075 inches. Average Ultimate strength, 28,000 pounds, average weight, 6.8 pounds per foot.

STRENGTH—Rex Chabelco will pull its rated tensile strength and will handle its rated working loads.

HARDNESS—Rex Chabelco has hardness developed by special heat treating methods and most modern equipment so that it will resist wear.

PRECISION—Rex Chabelco is manufactured on precision machinery—it is accurate in every dimension. This means that its pitch is accurate—that every link will fit the sprocket which means longer life and also means that the pitch of the chain will be preserved.

THE UNIT LINK—Advanced manufacturing methods produce the unit link that stays a unit. Side bars will not back off the bushings. Accurate force fits in every part produce in every link of Rex Chabelco unity and rigidity that are maintained.

Detachable—An inexpensive chain for general service.

Griplock—With the Hidden Shoulders and wearing shoes; the most durable and highly developed malleable chain.

Ley-Bushed—For heavy duty elevators handling sand, gravel and cement.

Durobar—A better combination chain for the fertilizer and cement industries.

Unicast—A superior malleable roller chain with links cast integral with roller.

Chabelco—An all-steel roller chain for heavy duty drives and conveyors.

Buckets—For every type of elevator service.

Rex Temperim Sprockets—With teeth and rim-hardened. Other sprockets for every service.

Manufactured by CHAIN BELT COMPANY, Milwaueee, Wis.

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Telegraph and Cable Code

Cable Word "LUFFO"

Our private Code is used for specifying our equipment whenever possible and reference to the Code following will assist in describing types of drives, assemblies, etc. For transmitting instructions regarding prices, terms of payment, method of shipment, routing, etc., use 6th edition A. B. C. Code.

Code Word	Translation	See Catalog Page
	Herringbone Geared Units	
FAADS	6½" Lufkin Herringbone Pumping Unit with electric motor	16-17
FAAKY	6½" Lufkin Herringbone Pumping Unit with Buda gas engine	23
FAAMB	6½" Lufkin Herringbone Pumping Unit with single cylinder gas engine	23
FAARF	6½" Lufkin Herringbone Pumping Unit (Gulf Coast Pattern) with electric motor	19-20
FAAFT	5½" Lufkin Herringbone Pumping Unit with electric motor	16-17
FAALZ	5½" Lufkin Herringbone Pumping Unit with Buda gas engine	23
FAANC	5½" Lufkin Herringbone Pumping Unit with single cylinder gas engine	23
FAATH	5½" Lufkin Herringbone Pumping Unit (Gulf Coast Pattern) with electric motor	19-20
FABAH	Lufkin Junior Herringbone Pumping Unit with base and electric motor	25
FABIK	Lufkin Junior Herringbone Pumping Unit with Buda gas engine (Similar to FAALZ shown on page 23)	26
FABOL	Lufkin Junior Herringbone Pumping Unit with single cylinder gas engine	26
FABUM	Lufkin Junior Herringbone Pumping Unit with electric motor (no unit base included)	25
	Worm Gear Units	
FACAJ	6½" Lufkin Heavy Duty Worm Gear Pumping Unit with electric motor (Same as shown on page 35)	37
FLAYB	6½" Lufkin Heavy Duty Worm Gear Pumping Unit with Buda gas engine (Same as shown on page 45)	37
FACEK	5½" Lufkin Intermediate Worm Gear Pumping Unit with electric motor (direct connected as shown on page 35)	38
FYEHN	5½" Lufkin Intermediate Worm Gear Pumping Unit with Buda gas engine (direct connected as shown on page 45)	38
FACIL	4½" Lufkin Standard Worm Gear Pumping unit with electric motor (direct connected as shown on page 35)	39
FECAY	4½" Lufkin Standard Worm Gear Pumping Unit with Buda gas engine (direct connected as shown on page 45)	39
FACOM	4½" Lufkin Stripped Standard Worm Gear Pumping Unit with plain induction motor	40
FAYOJ	4½" Lufkin Stripped Standard Worm Gear Pumping Unit on Colombia base with plain induction motor	40
FAYUK	4½" Lufkin Stripped Standard Worm Gear Pumping Unit on low base with Buda gas engine	46
FAWUL	4½" Lufkin Baby Worm Gear Pumping Unit complete with electric motor, walking beam, samson post and pitman	41
FAZEH	4½" Lufkin Baby Worm Gear Pumping Unit complete with Buda gas engine, walking beam, samson post and pitman	41
	Type of Drives for Worm Gear Units	
FECEW	Single Cylinder gas engine direct connected drive with shock absorbing coupling and disc type clutch	43
FECIX	"V" belt drive for electric motor consisting of pedestals, shaft, sheaves, belts and motor bracket with rails	44
FECOY	"V" belt drive for single cylinder gas engine consisting of pedestals with tightener, engine shaft with sheave and clutch, unit shaft with sheave and coupling and belts	44
	Central Pumping Power	
FAZOK	Lufkin Standard Worm Gear Central Pumping Power	49
FAZIJ	Lufkin Giant Worm Gear Central Pumping Power	53
	Types of Drives for Central Pumping Powers	
FEFAX	"V" belt drive for electric motor consisting of extension shaft with bearings, sheaves and belts	51
FEBAT	Buda gas engine with shaft bearings and flexible couplings direct connected	51
FEBEV	Single Cylinder gas engine with extension shaft, bearings, sheaves, belts, tightener and clutch	51
	Lufkin Hoists	
GACEN	No. 2 Hoist on wood posts	59
GACIP	No. 2 Hoist on steel posts	59
GACOR	No. 6 Hoist on wood posts	60
GACUS	No. 6 Hoist on steel posts	60
GEULF	No. 52 Hoist on wood posts	61
GEURK	No. 52 Hoist on steel posts	61
GEVAR	No. 522 Hoist on wood posts	62
GEVES	No. 522 Hoist on steel posts	62
GIMUZ	No. 62 Hoist on wood posts	63
GINAV	No. 62 Hoist on steel posts	63
GINEX	No. 622 Hoist on wood posts (Same hoist as No. 62 except no line shaft)	63
GINOZ	No. 622 Hoist on steel posts	63
GOARD	No. 141 Hoist on wood posts	64
GOBAY	No. 141 Hoist on steel posts	64
GOZIZ	No. 31 Hoist	67
GOZOB	No. 5 Sand Reel	67
GYOND	Swabbing Hoist No. 76	65
GYOPF	Countershaft for Rotary Drive	68
HEYIB	Sprocket with bushing for 13" bull wheel	68
HEYOC	Sprocket with bushing for 16" bull wheel	68
HEYUD	Sprocket with bushing for 18" bull wheel	68
HEZAZ	Bushing only for 13" Bullwheel sprocket	68
HEZEB	Bushing only for 16" Bullwheel sprocket	68
HEZIC	Bushing only for 18" Bullwheel sprocket	68
HEZOD	Rod line weight	68

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Telegraph and Cable Code--Continued

Code Word	Translation	See Catalog Page
	Number One Post, Beam and Pitman Assemblies	
FEBOX	—No. 1 Assembly (No. 1 Standard Post with Plain Irons, Regular Beam and Pitman with stirrup)	72-73
FEBUY	—No. 1 Assembly (No. 1 Standard Post with Oil Bath Irons, Regular Beam and Pitman with stirrup)	72-73
FUCEF	—No. 1 Assembly (No. 1 Standard Post with Plain Irons, Center Line Beam, Rod Hanger and Pitman)	72-76
FYCOX	—No. 1 Assembly (No. 1 Standard Post with Oil Bath Irons, Center Line Beam, Rod Hanger and Pitman)	72-76
FYCUF	—No. 1 Assembly (No. 1 Heavy Post with Plain Irons, Regular Beam and Pitman with stirrup)	72-73
FYDEW	—No. 1 Assembly (No. 1 Heavy Post with Oil Bath Irons, Regular Beam and Pitman with stirrup)	72-73
FYDIX	—No. 1 Assembly (No. 1 Heavy Post with Plain Irons, Center Line Beam, Rod Hanger and Pitman)	72-76
IFKOY	—No. 1 Assembly (No. 1 Heavy Post with Oil Bath Irons, Center Line Beam, Rod Hanger and Pitman)	72-76
FLEHL	—No. 1 Heavy Duty Samson Post without irons	71
FLEJM	—No. 1 Standard Samson Post without irons	71
FLEPT	—No. 1 Heavy Duty Samson Post with plain irons	71-72
FLERV	—No. 1 Standard Samson Post with plain irons	71-72
FLEYC	—No. 1 Heavy Duty Samson Post with Oil Bath Irons	71-72
FLICH	—No. Standard Samson Post with Oil Bath Irons	71-72
FUBED	—No. 1 Plain Center Iron	72
FUBIF	—No. 1 Plain Saddle	72
FUCIG	—No. 1 Oil Bath Center Iron and Saddle	72
FUCUJ	—No. 1 Regular Beam	73
FUDAF	—No. 1 Center Line Beam with rod hanger	75-76
FLEWZ	—No. 1 Pitman for center line Beam	76
FYDAV	—No. 1 Pitman with Stirrup	78
FYDUZ	—No. 2 Post, Beam and Pitman assembly	74
FLELP	—No. 2 Samson Post less irons	74
FLEVY	—No. 2 Samson Post with plain irons	72-74
FUBAC	—No. 2 Samson Post with Oil Bath Irons	72-74
FUBOG	—No. 2 Plain Center Iron	72
FUBUH	—No. 2 Plain Saddle	72
FUCOH	—No. 2 Oil Bath Center Iron and Saddle	72
FYCAT	—No. 2 Beam with rod hanger	74
FYCEV	—No. 2 Beam with mule head	74
FYDOY	—No. 2 Pitman with stirrup	78
FLENS	—No. 3 Post, Beam, and Pitman assembly	74

Electric Motors

ICACK—35/75, 600/1200 G. E. Motor.
ICAHP—25/55, 600/1200 G. E. Motor.
ICAJR—15/35, 600/1200 G. E. Motor.
IDCIL—50 H.P. 1200 G. E. Motor.
IDCOM—50 H.P. 900 G. E. Motor.
IDCUN—50 H.P. 720 G. E. Motor..
IDDAK—40 H.P. 1200 G. E. Motor.
IFAYN—40 H.P. 900 G. E. Motor.
IFBAL—25 H.P. 1200 G. E. Motor.
IFBEM—25 H.P. 900 G. E. Motor.
IFBOP—20 H.P. 1200 G. E. Motor.
IFFOT—15 H.P. 1200 G. E. Motor.
IFFUV—10 H.P. 1200 G. E. Motor.
IFGAR—7½ H.P. 1200 G. E. Motor.
IFGES—5 H.P. 1200 G. E. Motor.

Code Word	Translation	See Catalog Page
IFHAS	—25/65 H.P. 600/1200 W. H. Motor.	
IFHET	—20/50 H.P. 600/1200 W. H. Motor.	
IFHIV	—15/35 H.P. 600/1200 W. H. Motor.	
IFHOW	—50 H.P. 1200 W. H. Motor.	
IFHUX	—50 H.P. 900 W. H. Motor.	
IFIGX	—50 H.P. 720 W. H. Motor.	
IFILD	—40 H.P. 1200 W. H. Motor.	
IFING	—40 H.P. 900 W. H. Motor.	
IFIPH	—25 H.P. 1200 W. H. Motor.	
IFISK	—25 H.P. 900 W. H. Motor.	
IFJAT	—20 H.P. 1200 W. H. Motor.	
IFJEV	—15 H.P. 1200 W. H. Motor.	
IFJOX	—10 H.P. 1200 W. H. Motor.	
IFJUY	—7½ H.P. 1200 W. H. Motor.	
IFKAV	—5 H.P. 1200 W. H. Motor.	

Multi-cylinder Gas Engine

IFLAW	—J. H. 6 Buda	46
IFLEX	—J. H. 4 Buda	46
IFLOZ	—F. R. 4 Buda	46
IFLUB	—Y. R. 4 Buda	46

Single Cylinder Gas Engine
(Give name of engine)

IFMAX—40 H.P. 2 Cycle.
IFMEY—40 H.P. 4 Cycle.
IFMIZ—30 H.P. 2 Cycle.
IFMOB—30 H.P. 4 Cycle.
IFMUC—25 H.P. 2 Cycle.

Miscellaneous Information that May Be Used When Ordering Units

FEDAW—Sprocket for driving hoist not required.
FEDEX—Motor Bracket for "V" belt drive not required.
FEDOZ—Include sprocket for driving Sand Reel.
FEDUB—Include Derrick control for Flywheel Brake.
FEFAX—Include extra sheave for motor to secure (—) strokes per min.
FLAHK—Include auxiliary weights for crank.
FLALN—Include foundation bolts for Unit.
FLAMP—Include foundation bolts for Samson Post.
FLAPS—Include (--) pull rod clevises for Power.
FLART—Include sufficient chain for driving hoist.
FLAWY—Include sufficient chain for driving Sand Reel.
FECUZ—Include Calf. wheel drive sprocket with clutch. 18
IFGIT—Strokes per minute.
IFGOV—Depth of well in feet.
IFGUW—Gravity of oil.
IFKEW—Size of tubing.
IFKIK—Barrels of fluid per day.
IFKUZ—Electric motor not required.
IFNAY—Buda gas engine not required.
IFNEZ—Single Cylinder gas engine not required.
IFNIB—6'0" walking beam working centers desired.
IFNUD—7'0" walking beam working centers desired.
IFOFY—8'0" walking beam working centers desired.
IFOHB—12'6" walking beam working centers desired.
IFOLF—13'0" walking beam working centers desired.
IFORK—14'0" walking beam working centers desired.
IFOWP—No walking beam, post or pitman required.
HOASP—11-1/3 to 1 Worm Gear Ratio.
HOBAC—19-2/3 to 1 Worm Gear Ratio.
HOBED—22-1/4 to 1 Worm Gear Ratio.
HOBOG—26-1/3 to 1 Worm Gear Ratio.
HUCUR—29-2/3 to 1 Worm Gear Ratio.
HUDAM—44-1/2 to 1 Worm Gear Ratio.

When ordering electric motor give make, speed, type and specifications of electric current.

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Free for the Asking



"Published to promote friendship and good will with its customers and to advance the interest of its products by the Lufkin Foundry and Machine Company and mailed free of charge to interested oil men anywhere."

The "LUFKIN LINE" contains interesting oil news and is also a digest of new equipment for the oil industry. The complete "up-to-the-minute" details of Lufkin equipment is always available when the "Lufkin Line" is preserved with our catalogue. A folder for preserving this catalogue with ample space for future issues of the Lufkin Line will be gladly mailed free for the asking.

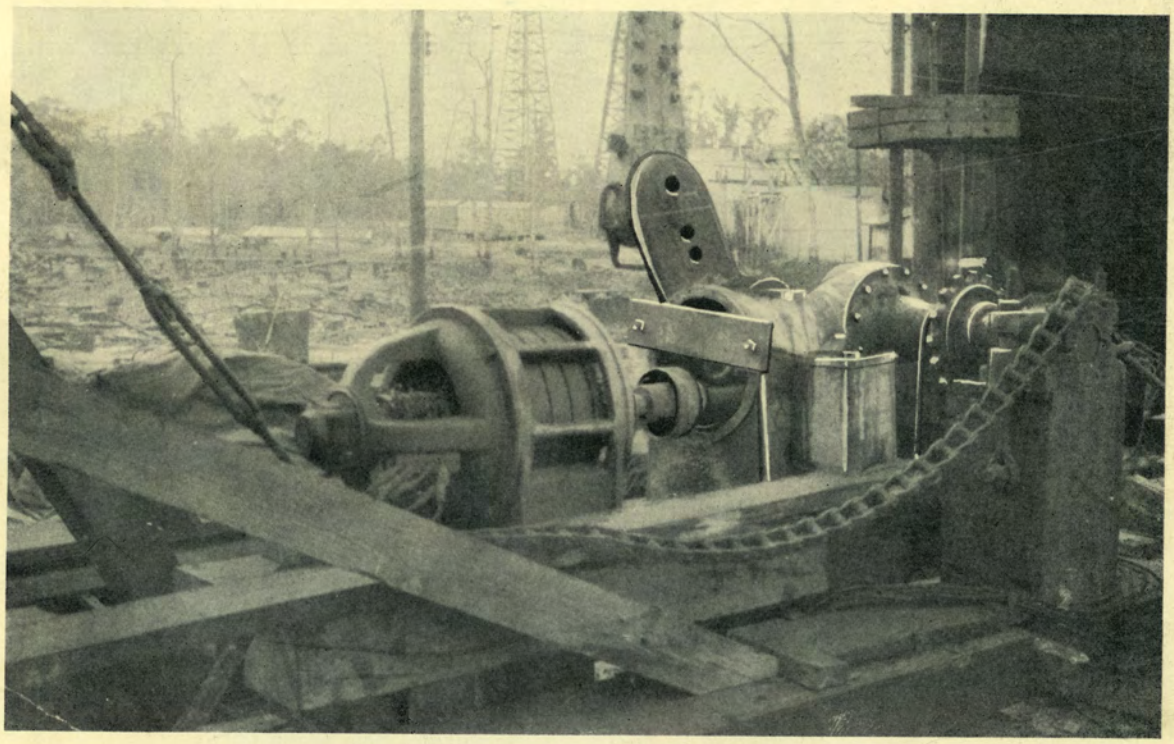
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A Pictorial History

of

LUFKIN UNITS

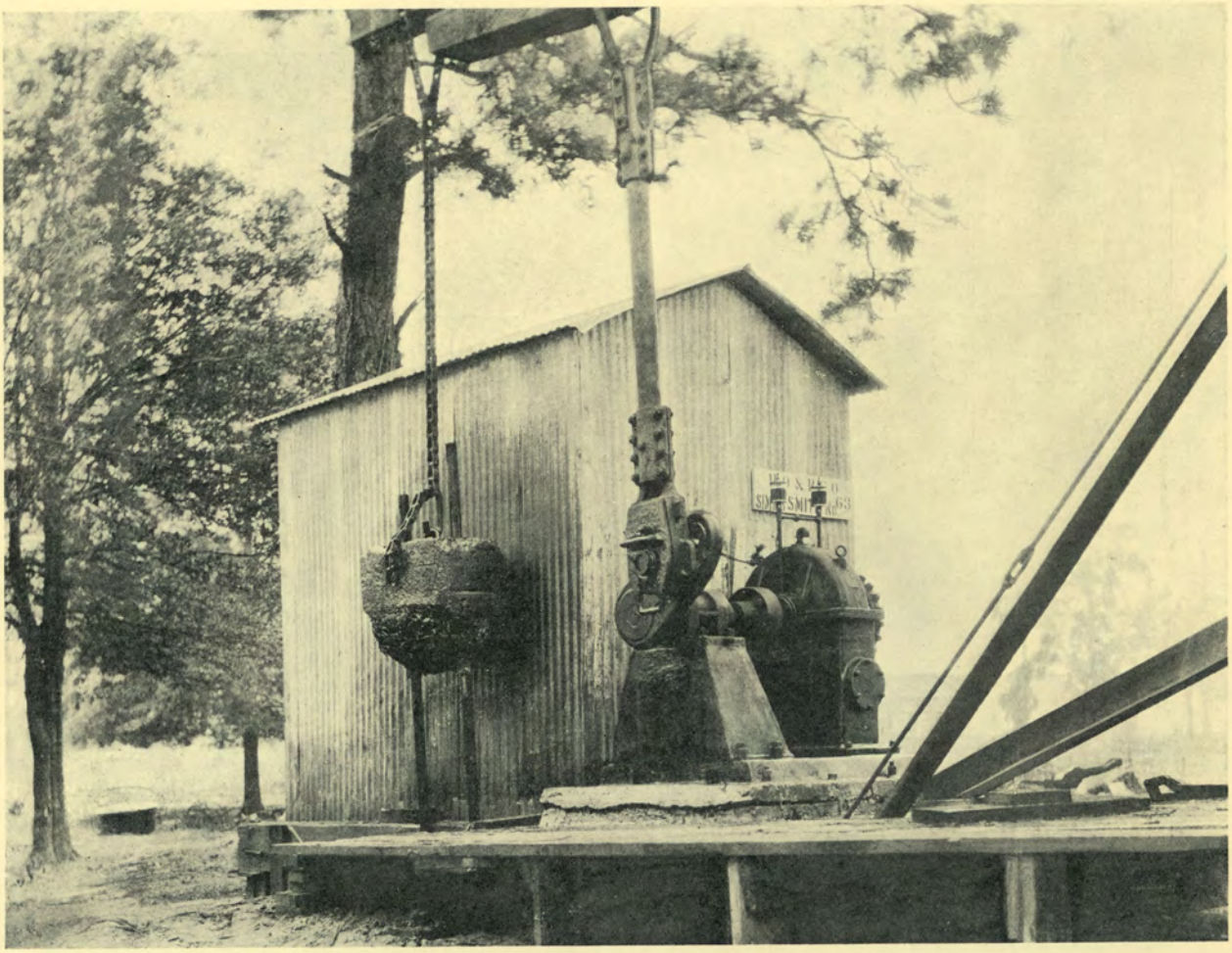


The Idea out of Which Grew the Present Lufkin Unit

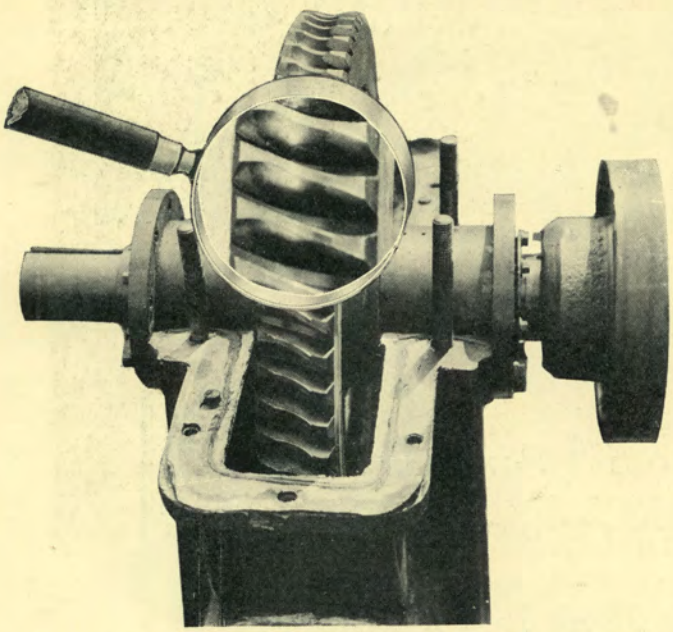
1

This Section Attempts to Set Forth Briefly the Development of the Lufkin Unit From Its Earliest Conception to the Present Time in Pictorial Form

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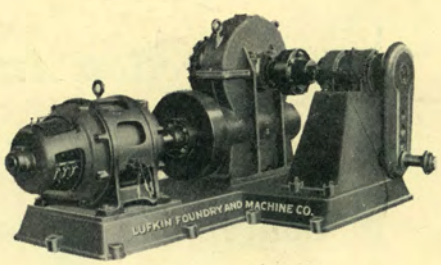
The First *LUFKIN* Worm Gear Unit



Close-up of Worm Gear Teeth in Lufkin Unit After Five Years of Continuous Service Showing Practically No Wear.

The first Lufkin Unit was installed by the Humble Oil & Refining Co. at Goose Creek, Texas, in January, 1924. This Unit was later moved to another location and is still in operation.

Recently a Lufkin Worm Gear Unit, after five years continuous operation was brought into our plant to be tested for efficiency, wear, etc., for our own information. This unit showed practically no wear, and 89% efficient on test.



Design of First Lufkin Unit

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Gulf Production Co., C. Bryan 8, Goose Creek, 4200 feet deep—One of our early installations.

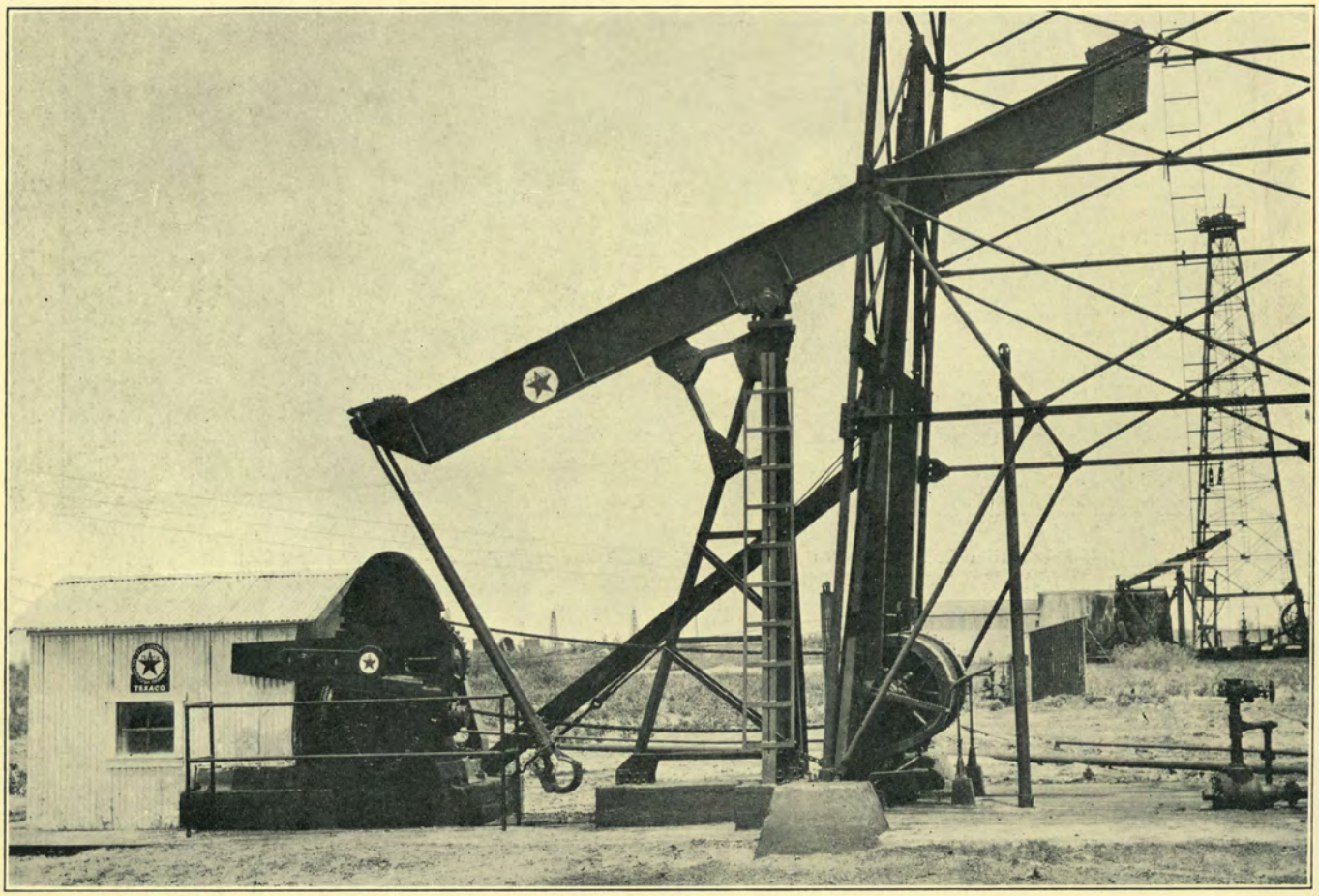
Original *LUFKIN* Installations



Vacuum Lease, Liberty, 3500 feet—One of our original units installed with beam balance making 28 strokes, as fast as rig could go, without "whipping" balance weights. Later, when rig was equipped with Trout counter-balanced crank, strokes were increased to 36 in out hole.

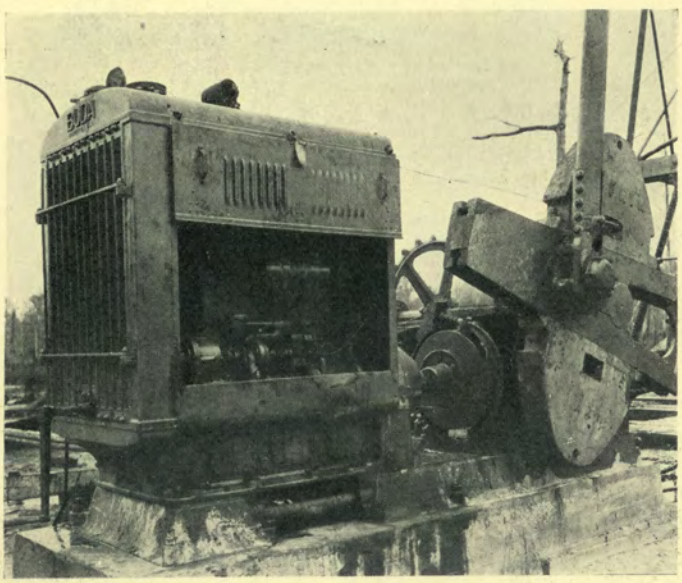
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A Modern *LUFKIN* Installation



Texas Company Cowden Anderson State No. 14—well flowing—all set for beam, Lufkin 5½" Unit, No. 22 Hoist, Lufkin Self-supporting Samson Post, Beam, and Trout Universal Pitman. Lufkin Unit is driven by 15/35 G. E. Motor. Fire hazard was not the least item considered in arriving at the decision to use Lufkin Units.

The Texas Company is a big user of LUFKIN EQUIPMENT.



Left—Buda Power Unit J.H.-4 and Lufkin Standard Worm Gear Unit, Trout Pitman and Lufkin No. 522 Rod and Tubing Hoist. Simms Oil Company Effie Johnson No. 4, El Dorado district. Total depth 1988 feet, 2" tubing, ⅝" rods. Total production 115 bbls., well pumping at 1975 feet in third hole, 28" stroke, 22 strokes per minute.



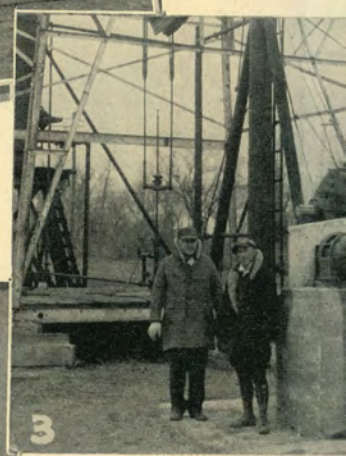
Bull Wheels salvaged when Lufkins replaced Standard Rigs on Shell Lease in Winkler County. One of the Lufkin Units in background.

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Lufkin equipment in service in Howard, Crane, Wink
Oxford, Kansas,

No. 1, Marland Production Company, Chalk E-4, Howard County near Big Spring, Baby Unit and No. 2 Samson Post. No. 2, Tidal Oil Co., University No. 3, Crane County, Standard unit with complete Lufkin equipment which replaced Standard Rig. No. 3, typical Oxford Kansas installation. This unit is one of the large number purchased by one of the largest operators in Kansas who decided on Lufkin Units after running a number of tests on several makes of pumping units over a period of several weeks. Men in the picture are: *Left:* I. D. Jones, Assistant Superintendent of the Shell Petroleum Corporation. *Right:* Jess Pyle, Construction Superintendent of the Shell Petroleum Corpn., at Oxford, Kansas. No. 4, Shell-Tex C No. 2, Winkler, County, Intermediate unit and auxiliary equipment. No. 5, *Extreme right top:* Shell Co., E No. 1, Yates Pool, Pecos County, ideal Baby Unit Installation. No. 6,

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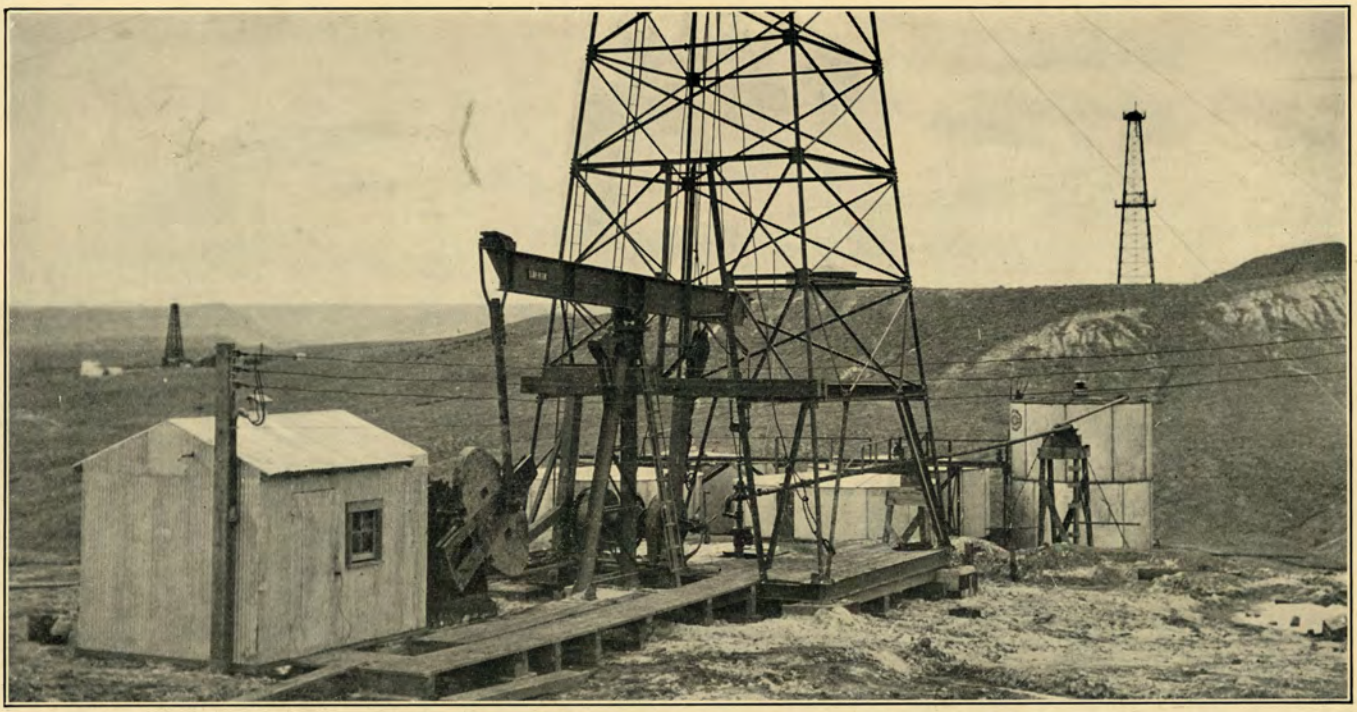
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UFKIN
UIPMENT
IN THE
FIELD



me, Winkler, Pecos, Electra, Counties in Texas and Kansas, Fields

Humble Smith B-3, Yates Pool, Pecos County, Standard Unit and auxiliary Equipment. No. 7, Louisiana Oil & Refining Company Settles No. 2 Howard County, complete Lufkin Installation. A neat installation. No. 8, General view Humble Company "C" lease, Winkler County. No. 9, Simms Company T. Waggoner No. 3, Electra, Texas, Model installation of Lufkin Baby Unit. No. 10, Marland Clay G-1, Howard County, Texas, near Big Spring. Baby Unit installation with No. 2 Samson Post. No. 11, Owen-Sloan Company, Dora Roberts No. 4, Howard County, Intermediate Unit with extra crank for shallow well; a help in balancing. No. 12, Simms M. A. Smith No. 1 Standard Unit. This well drilled in with Bull wheels and Lufkin No. 22 Hoist. Note how clean and neat each lease is. Fire hazard has been entirely eliminated, only a small motor house required in some instances, and everything accessible.

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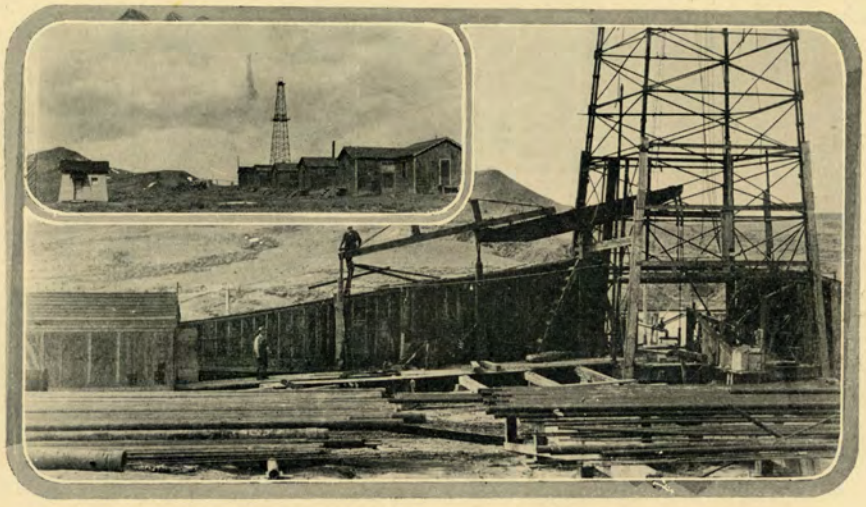
Chas. E. Orchard No. 3, Cody, Wyoming. Complete Lufkin Installation consisting of Lufkin 6½" Heavy Duty Unit, 20/50 G. E. Motor, No. 22 Hoist, No. 1 Samson Post assembly. Since this Unit was installed orders for two more have been received.



CARTER OIL COMPANY'S LUKE No. 2
This well located on the concrete highway going into the town of Seminole, Oklahoma, which can be seen in the background.

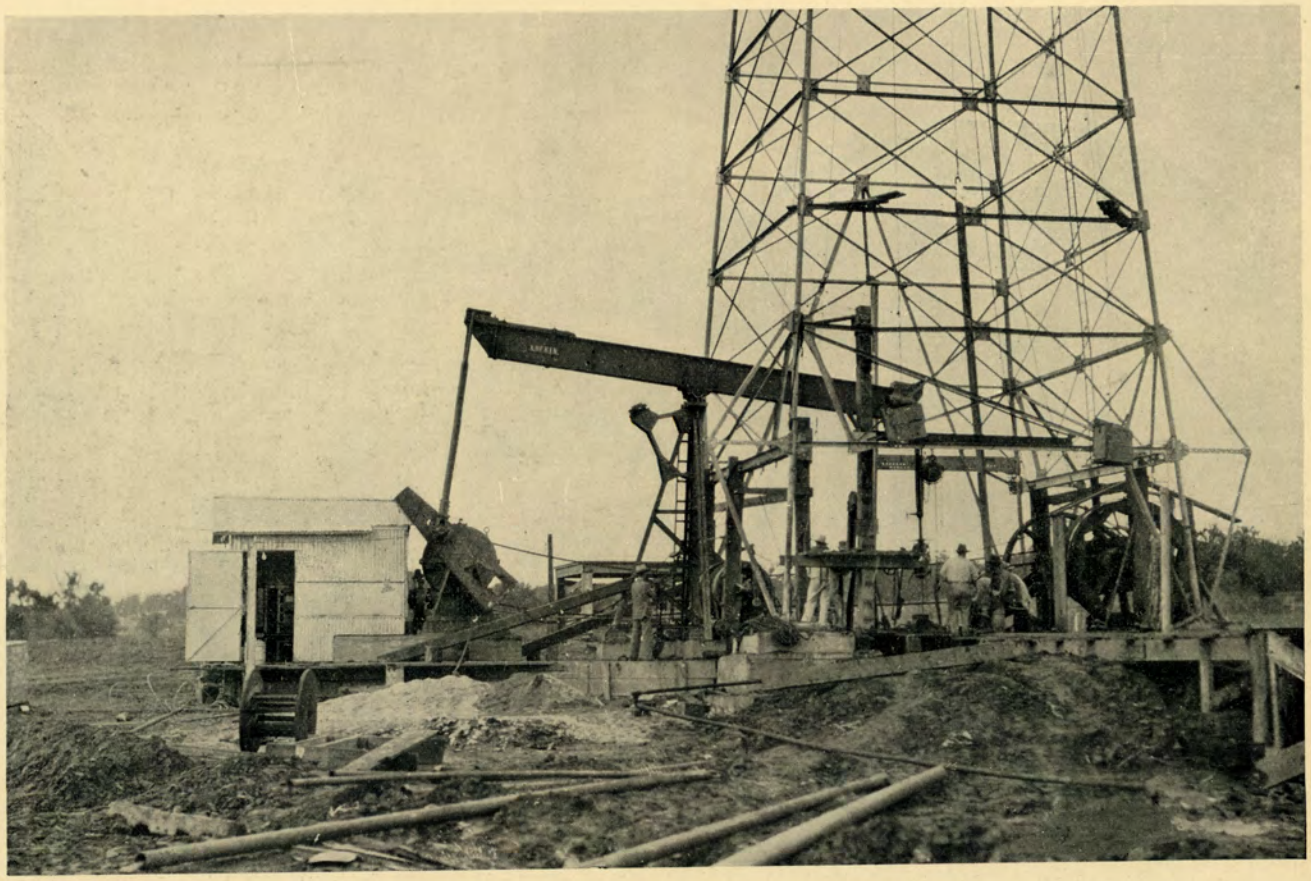


Three years without rods out of hole, is the record of Wright No. 1, shown above, of the Shaffer Oil & Refining Company, Drumright District, Oklahoma. The well is 3800 feet deep and at present is producing 100 barrels oil daily. Initial production three years ago 350 barrels. Lufkin equipment includes Standard (4½") Worm Geared Unit with electric motor drive.



Chas. E. Orchard Well No. 1 with Steam Engine and Standard Rig which will be replaced by Lufkin Unit and Auxiliary equipment. *Upper:* view of Orchard camp, well No. 1 in background.

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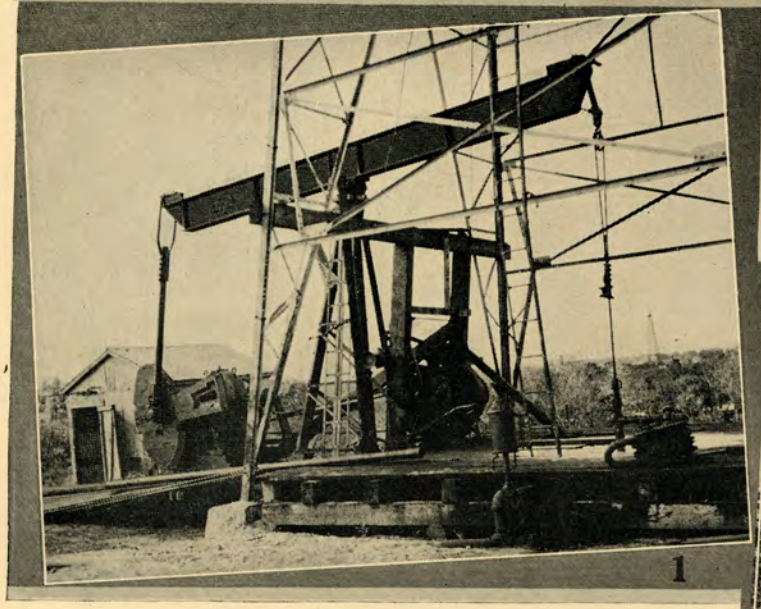
DRILLING IN AFTER ROTARY WITH LUFKIN UNIT
Simms Oil Company, Alexander No. 1. On this well, Arch Clevenger, drilling contractor, set 4000 ft. of 6¼ O. D. pipe in 9 hours with Lufkin No. 522 Hoist.



WHERE BEAUTY AND ECONOMY COMBINE
Modern Baby Unit Installations

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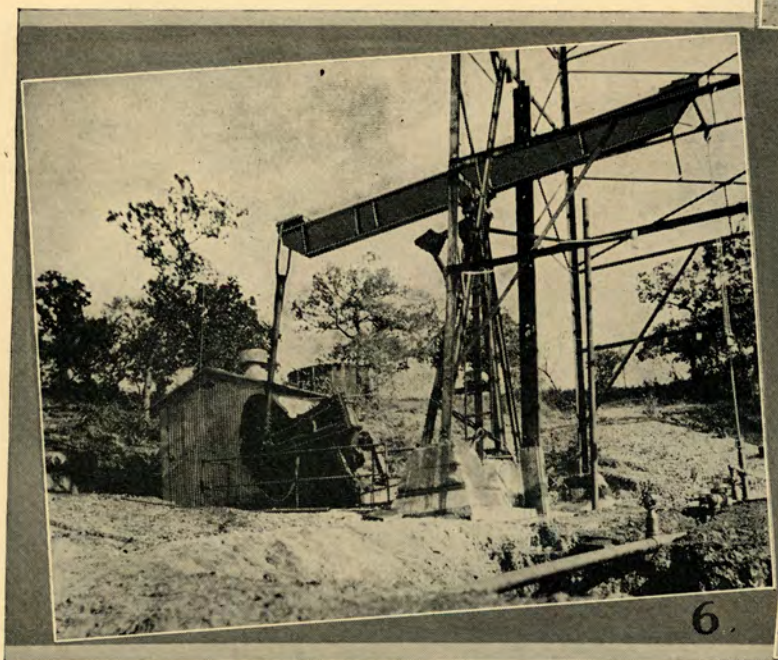
"LUFKIN EQ
in the Joe E



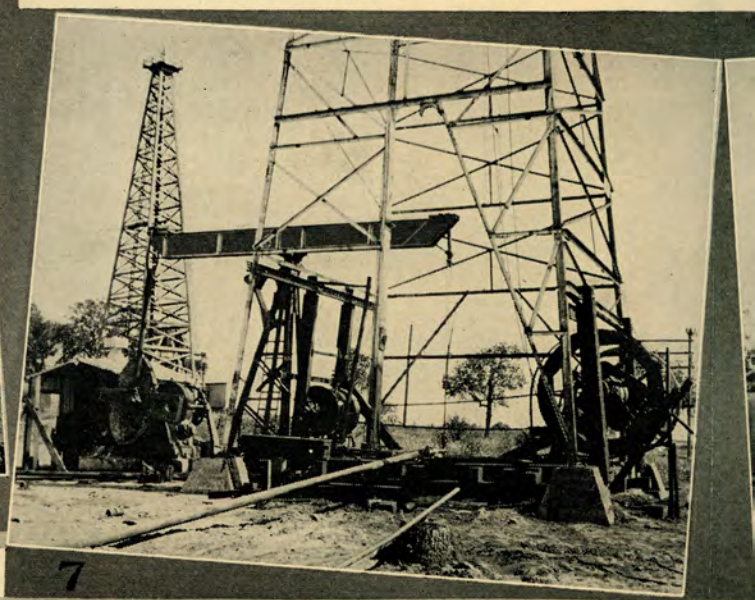
Texas Company Merriweather No. 7—Lufkin completely equipped



Humble, J. R. Tiller No. C-2



Shell, Tiller No. 6—Note Hill cut away



Figures do not tell the complete story, but some idea of the importance attached to the geared pumping unit by the larger operators in the Salt Flat or Joe Bruner Field can be gained by these figures: Of the 282 wells in the field at this time, nearly 83% or 233 wells are owned by only five large companies, namely: Humble, Shell, Gulf, Sun and Texas. Of the 233 wells only 1 is equipped with Standard Rig; 232 wells are equipped with geared units of which 163 or 70% are Lufkin Units, leaving only 30% divided amongst all other geared unit manufacturers. The largest operator in the field uses practically nothing but Lufkin Units. *In the Pictures:* No. 1: Texas Co. Merriweather No. 7; No. 2: Humble J. R. Tiller No. C-2; No. 3: Shell

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QUIPMENT
Bruner Pool"



3

Shell Wm. Smith No. 5

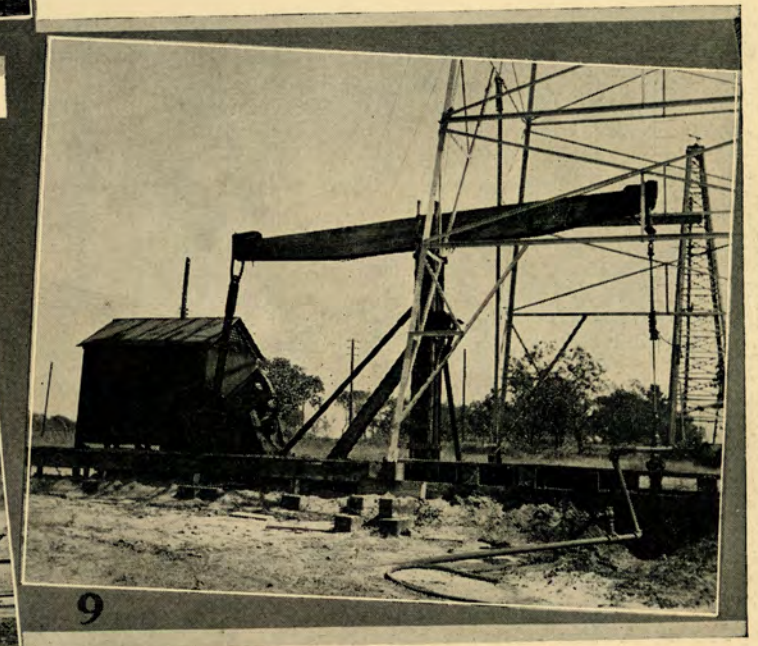


4

Sun Company, Malone No. 5—Lufkin completely equipped



8



9

Gulf, Davis No. 3—This unit has served in three fields

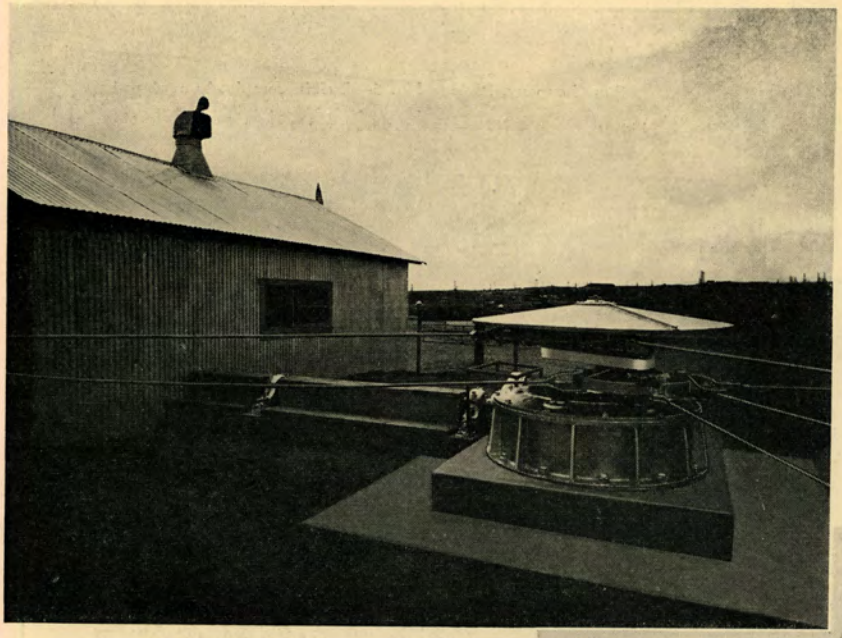
Wm. Smith No. 5; No. 4: Sun Co. Malone No. 5; No. 6: Shell Tiller No. 6—Note hill cut away back of motor house. Imagine expense of installing standard rig in such a location. The ease with which Lufkin Units are installed in rough, hilly country is a big consideration. No. 7: Shell New Lease. No. 1 showing cable tool equipment hooked up. Well has just been worked over and put on beam. No. 8: Humble J. R. Tiller B-3. No. 9: Gulf, J. J. Davis No. 3. This is unit No. 225 shipped to the Gulf at Sour Lake in 1926, later moved to Spindle Top and now seeing service at Luling. Salvage of Lufkin equipment is practically 100%. Only concrete foundation is lost.

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The First Central Power Installed in Grey County, Texas

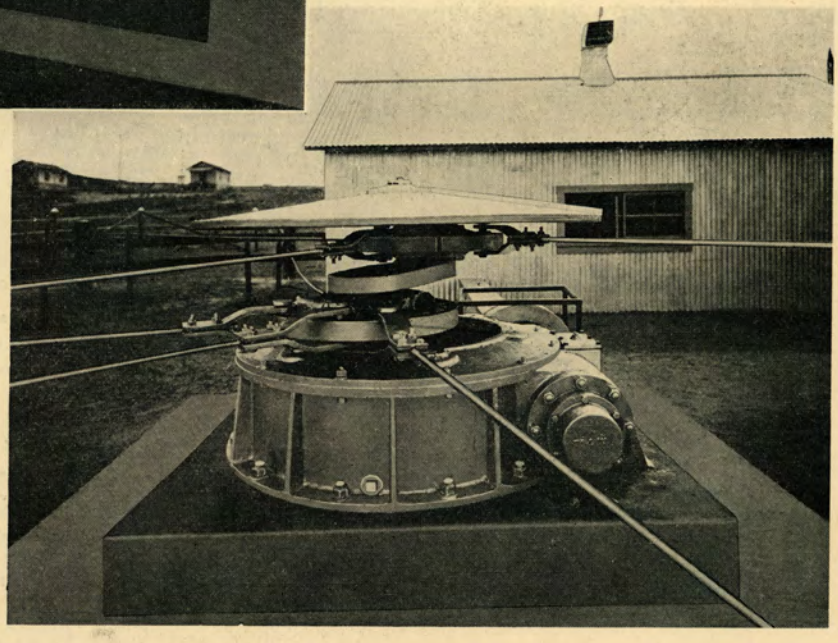
A Modern Lufkin Central Power Installation



Left—View of Lufkin Central Power showing rod line connections and housed line shaft to motor house.

Seven wells 2600 ft. deep are now connected to this Power.

Order for the second Power has been received since this installation.



Right—A fine view of the rugged, heavily constructed Lufkin Central power.

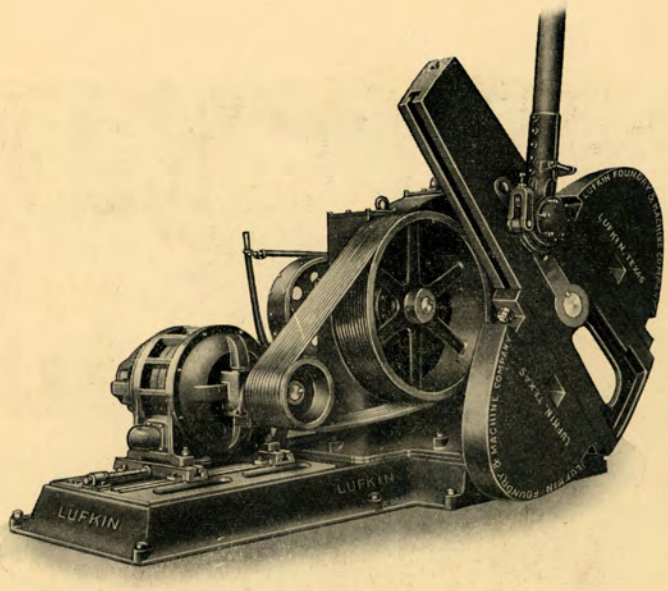
Lufkin Central Powers eliminate the usual large, expensive band wheel house, belts, etc., are fire-proof and economically operated.

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The Lufkin Herringbone Unit Is Introduced

The Lufkin Herringbone Unit was introduced in 1929. So universally adaptable was this unit to oil field pumping, pulling and drilling that it soon became standard equipment with a good many large operators.

At the time this catalogue goes to press almost three hundred of this type Unit have left the Lufkin plant.



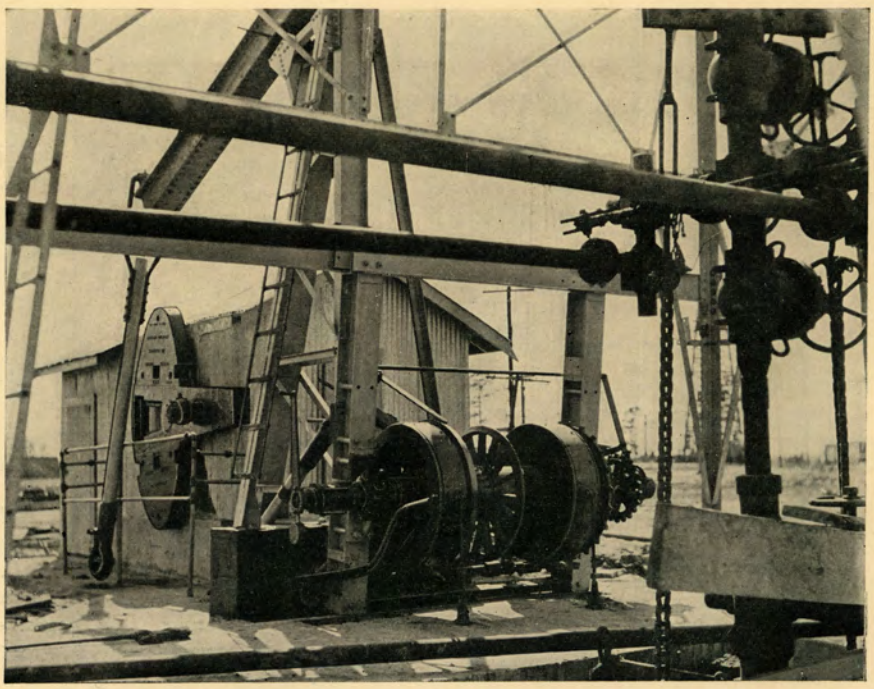
LUFKIN HERRINGBONE UNIT

The Lufkin Herringbone Unit employs the "Sykes-Herringbone" type of gearing which is noted for its high efficiency, silence in operation and freedom from back-lash. Continuity of tooth contact and maximum tooth surface for width of gear face are also features of the Herringbone gear. Simplicity of operation and adaptability to most any prime mover add to popularity of the Lufkin Herringbone Unit.



SIMMS-PHILLIPS U. NO. 3 ECTOR POOL, WEST TEXAS

The rig on which new cable tool drilling record was established.



Typical Lufkin Herringbone Unit installation including No. 522 Hoist, Beam, Post and Pitman—Everything "Lufkin."

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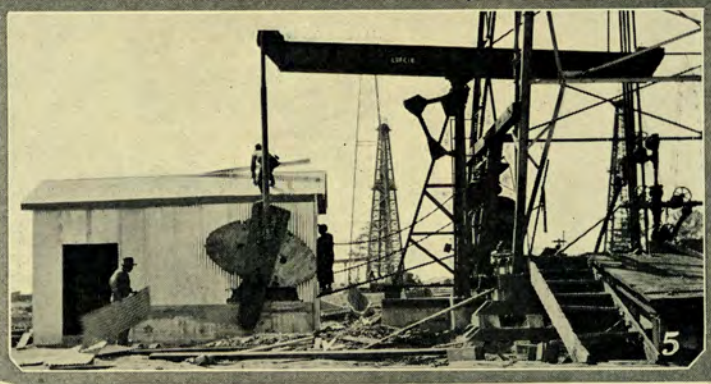


Humble Company, William No. 4, Humble Field



South Texas Petroleum Company, No. 11, Humble Field

THE LUFKIN LINE



Texas Company, Dun No. 2, Humble field

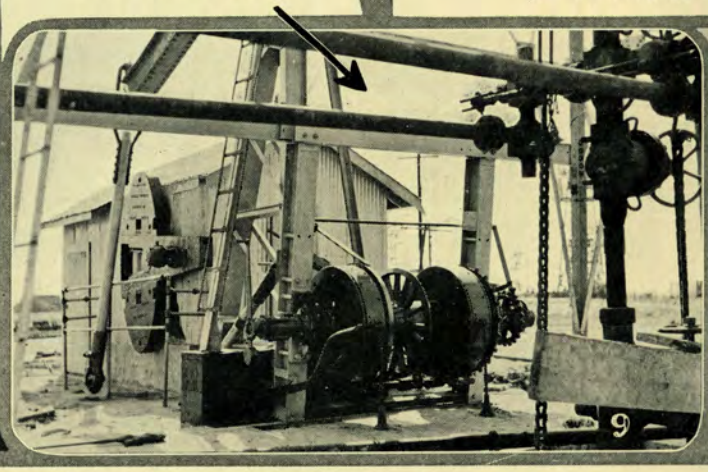


Sun Oil Company, Knoblock

Humble Company, Williams No. 9, Humble Field



Texas Company, Lemmie Anderson No. 4, Darst Creek



1. *Humble Company*, William No. 4, Humble field, depth 5000 feet, well flowing 100 barrels daily. Lufkin 6½" Herringbone Unit, Trout Pitman, Lufkin No. 1 Post and No. 522 Hoist.
2. *South Texas Petroleum Company*, No. 11 Humble Field, depth 5300 feet, 2½" tubing, ¾" rods, production 200 barrels. Complete Lufkin installation consisting of 6½" Herringbone Unit, Samson Post, Beam, Pitman and No. 52 Hoist.
3. *Simms Company*, Mrs. Johnnie Manford No. 1, Darst Creek, depth 2580 feet, flowing 550 barrels. Lufkin completely equipped, 5½" Herringbone Unit, Trout Pitman, No. 1 Samson Post and I Beam type walking beam and No. 522 Hoist.
4. *Humble Company*, D. D. Baker No. 3, Darst Creek, depth 2635 feet, 2" tubing, ¾" rods, production 950 barrels. Lufkin 5½" Herringbone Unit and auxiliary equipment.
5. *Texas Company*. Dun No. 2, Humble Field, depth 5300 feet, production 500 barrels, Lufkin completely equipped including 6½" Herringbone Unit, No. 522 Hoist, Trout Pitman Post and Beam.
6. *Sun Oil Company*, Knoblock No. 1, Darst Creek, depth 2650 feet, 2½" tubing ¾" rods, production 1000 barrels. Complete Lufkin

Please Note: These pictures taken during intensive activity. Shortly they will be cleaned up, pre

Instant Acceptance Has Been The Reception

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RRINGBONE UNITS

e Field



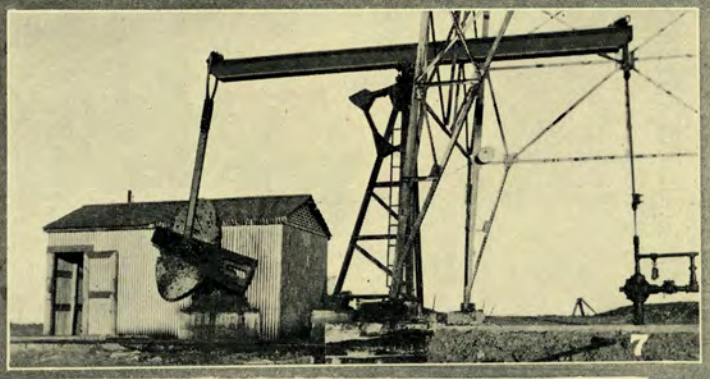
Simms Company, Mrs. Johnnie Manford No. 1, Darst Creek



Humble Company, D. D. Baker No. 3, Darst Creek



, Knoblock No. 1, Darst Creek

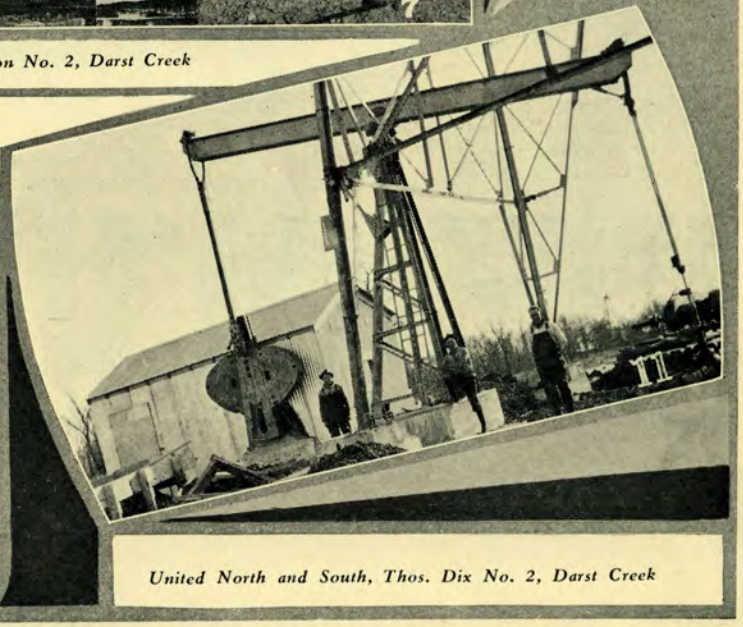


Humble Company, Sallie Wilson No. 2, Darst Creek

THE LUFKIN LINE

United North and South, Roamel No. 1, Darst Creek





United North and South, Thos. Dix No. 2, Darst Creek

equipment including 5½" Herringbone Unit, No. 522 Hoist, Pitman, Beam and Post.

7. *Humble Company*, Sallie Wilson No. 2, Darst Creek, depth 2650 feet, 2½" tubing, ¾" rods, production 1300 barrels, 5½" Herringbone Unit, and auxiliary equipment.

8. *Texas Company*, Lemmie Anderson No. 4, Darst Creek, depth 2645 feet, 2½" tubing, ¾" rods, production 800 barrels, equipped with 5½" Herringbone Unit, No. 1 Samson Post. I Beam type walking Beam, Trout Pitman.

9. *Humble Company*, Williams No. 9, Humble Field, depth 4892 feet, flowing 4500 barrels, 6½" Herringbone Unit, Trout Pitman and note Lufkin No. 522 Hoist with steel Jack Posts.

10. *United North and South*, Roamel No. 1, Darst Creek, depth 2490 feet, 2½" tubing, ¾" rods, production 1350 barrels. Equipment includes 6½" Herringbone Unit, Trout Pitman and Samson Post assembly. Among the men in the picture are J. H. Bergman, gauger and N. T. McCarley, foreman.

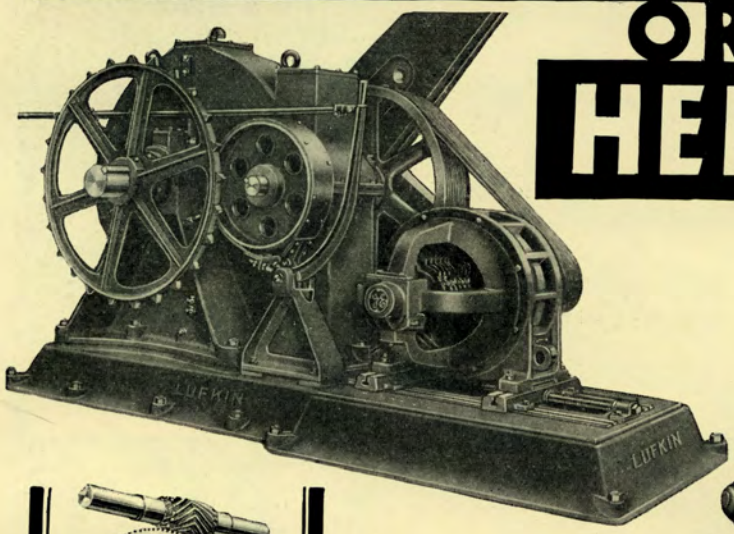
11. *United North and South*, Thos. Dix No. 2, Darst Creek, depth 2530 feet, 3" tubing, ¾" rods, production 2250 barrels. Lufkin equipment includes 6½" Herringbone Unit, Trout Pitman and Samson Post assembly.

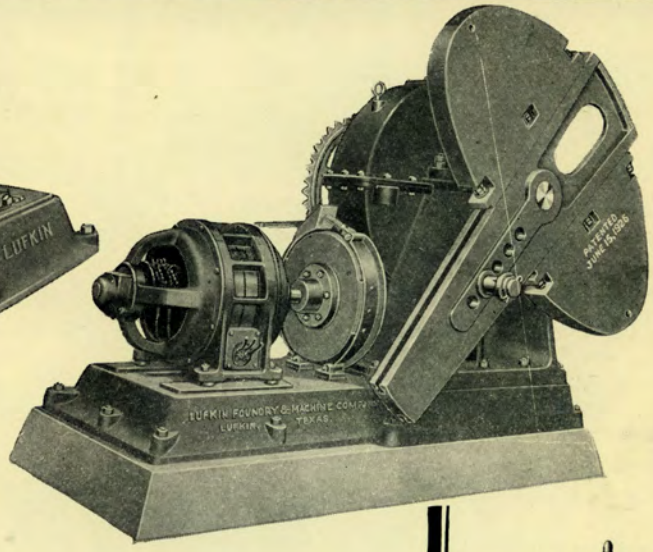
ned up, presenting a neat, clean installation. This is always possible with a Lufkin Unit

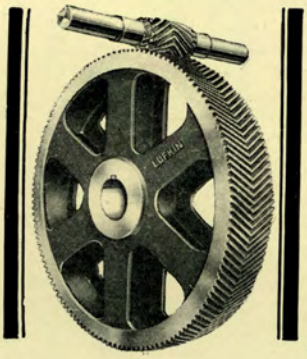
tion of The Lufkin Sykes-Herringbone Unit

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WORM GEAR OR HERRINGBONE?

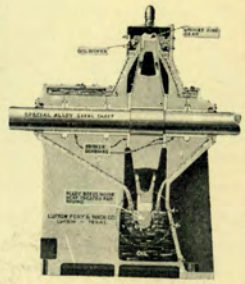






Herringbone Gear and Pinion—Lufkin Herringbone Unit

TWO POPULAR LUFKIN UNITS



Cross section Lufkin Worm Gear

BLONDE OR BRUNETTE?

It's a matter of Choice

The Lufkin Herringbone Gear Unit is new in design and construction and because of its better "fall" meets the need for a cable tool drilling Unit. The Lufkin Herringbone Unit is easily and inexpensively adaptable to any type drive, particularly the regular oil field type single cylinder gas engine of which type we have recently installed twenty-five. Over two hundred Lufkin Herringbone Gear Units now in operation.

Lufkin Worm Gear type Units pioneered the reduction gear system for pumping oil wells. Fourteen hundred Lufkin Worm Gears are now successfully operating in domestic and foreign fields and are considered standard equipment by many large operators. Lufkin Worm Gear Units are made in four sizes to suit well conditions and are adaptable to any type drive . . . They have many points in favor and are ideal for pumping.

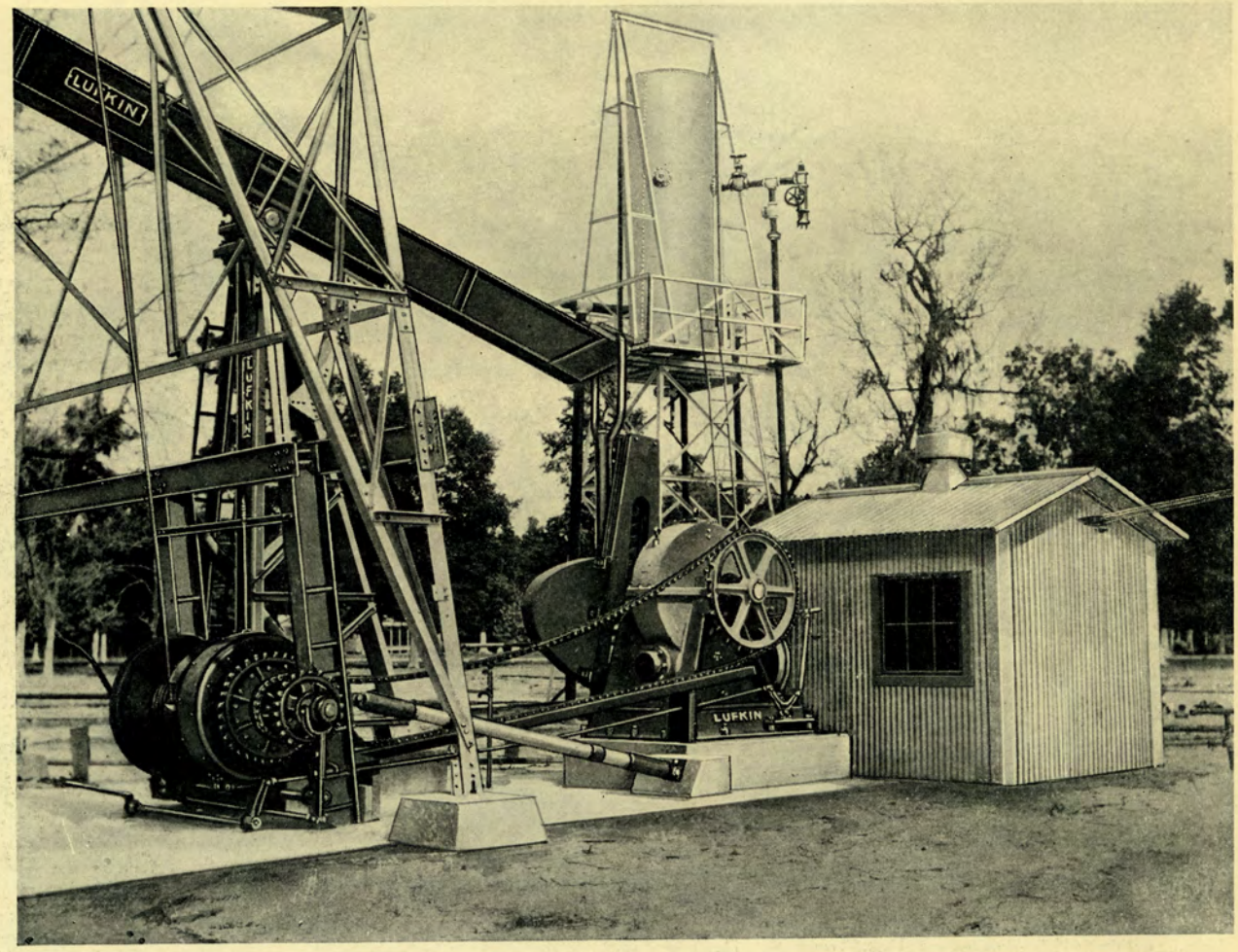
Lufkin Units are designed for continuous service and long life . . . as to type—it's a matter of choice . . . we can furnish either . . . take your pick . . . "Blonde or Brunette."

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A Typically Modern

Lufkin Worm Gear Installation

with Auxiliary Equipment

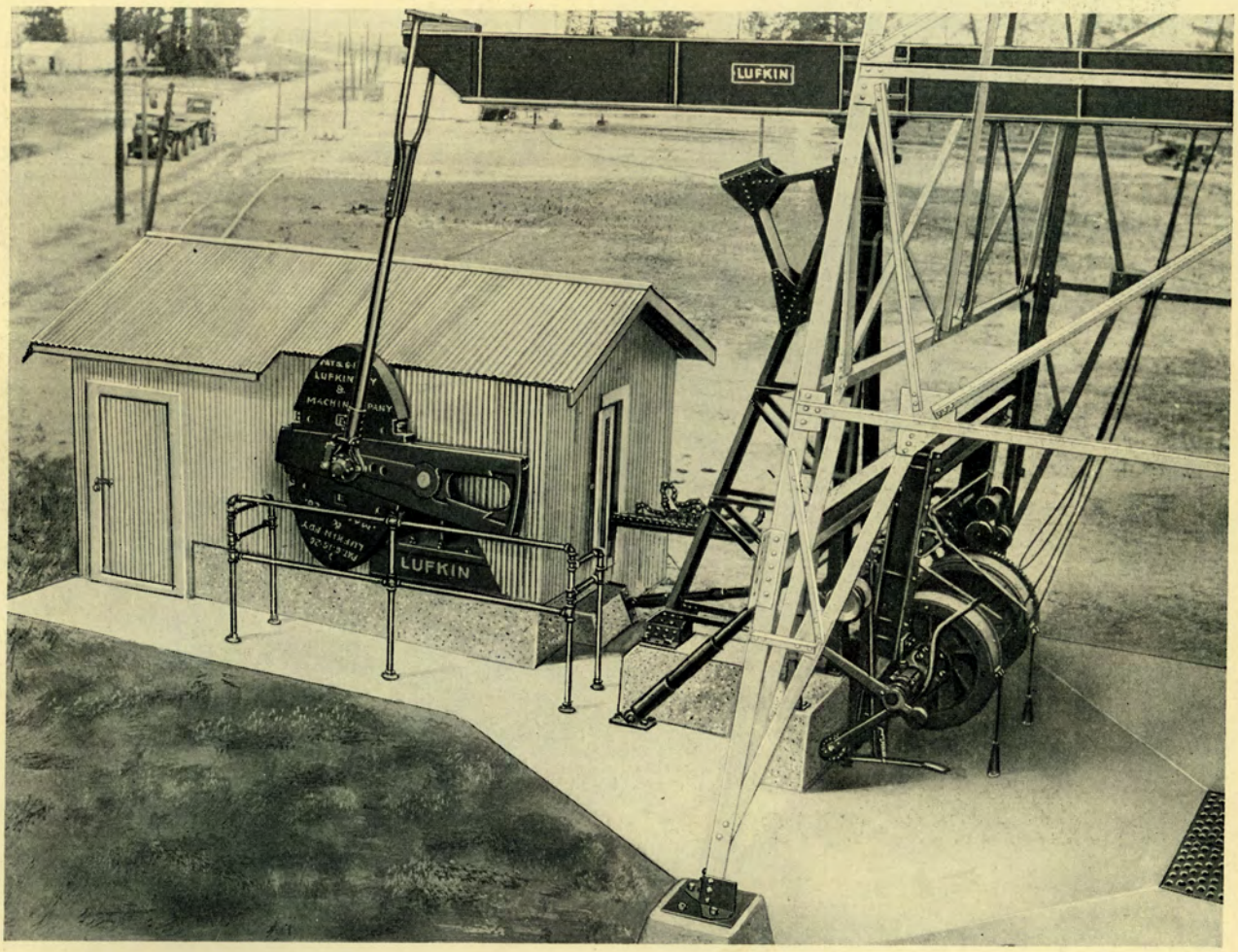


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A Typically Modern

Lufkin Herringbone Unit Installation

with Auxiliary Equipment



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A Modern Plant »»
«« Plus Warehouses at Strategic Points
Lufkin's Way of Serving the Oil Industry



Entrance to the plant of the Lufkin Foundry & Machine Co., Lufkin, Texas.
Office building on the right.

ODESSA, TEXAS,
WAREHOUSE



SEMINOLE, OKLA., WAREHOUSE



Two views of Lufkin's Seminole, Oklahoma, warehouse. Upper is front view; lower is view of loading platform showing part of heavy stock carried in Seminole.

EL DORADO, ARKANSAS, WAREHOUSE



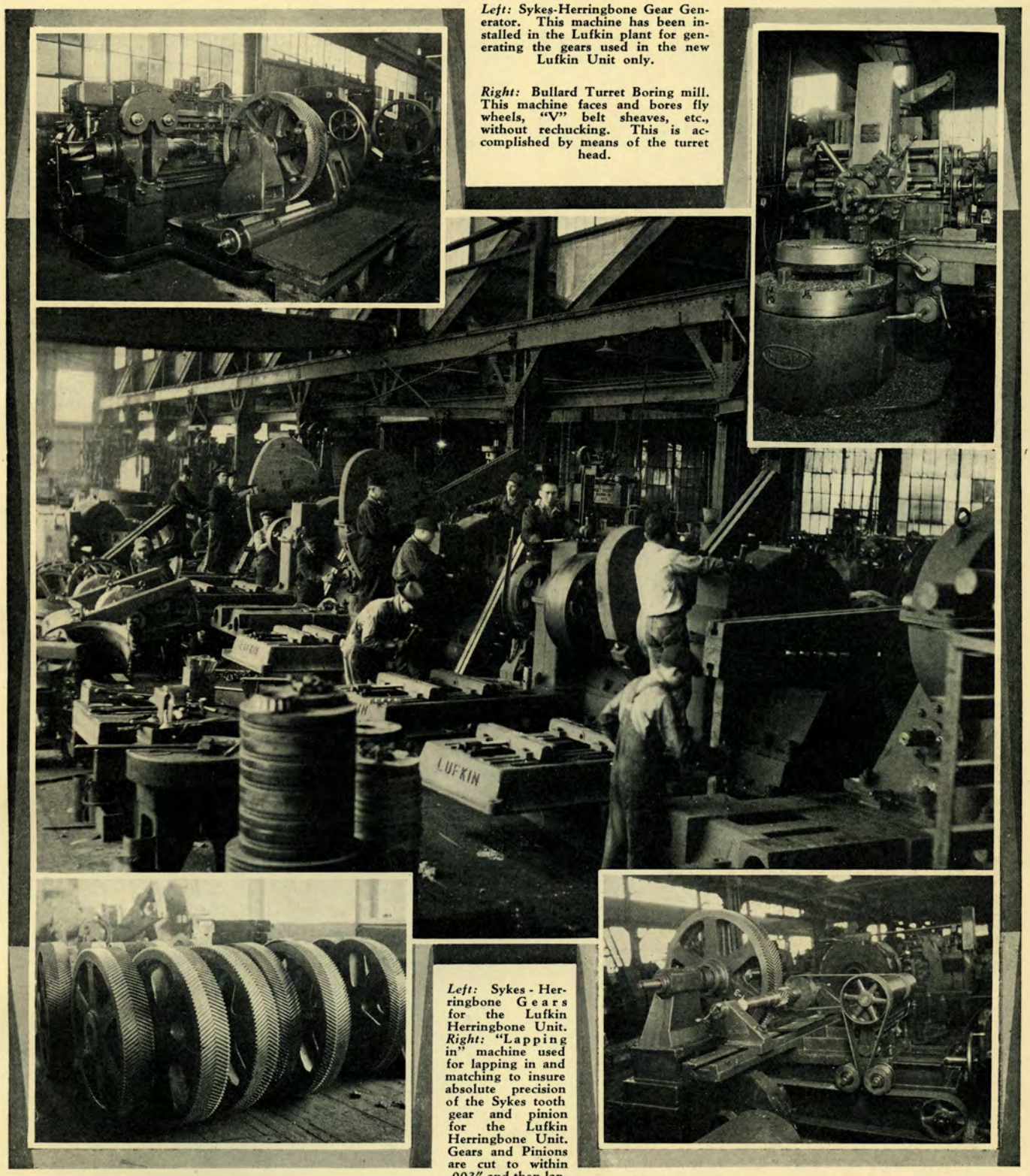
LOS ANGELES
AND
BAKERSFIELD
WAREHOUSES NOT SHOWN

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Machinery of Latest Design Used in Manufacture of Lufkin Equipment

Left: Sykes-Herringbone Gear Generator. This machine has been installed in the Lufkin plant for generating the gears used in the new Lufkin Unit only.

Right: Bullard Turret Boring mill. This machine faces and bores fly wheels, "V" belt sheaves, etc., without rechucking. This is accomplished by means of the turret head.

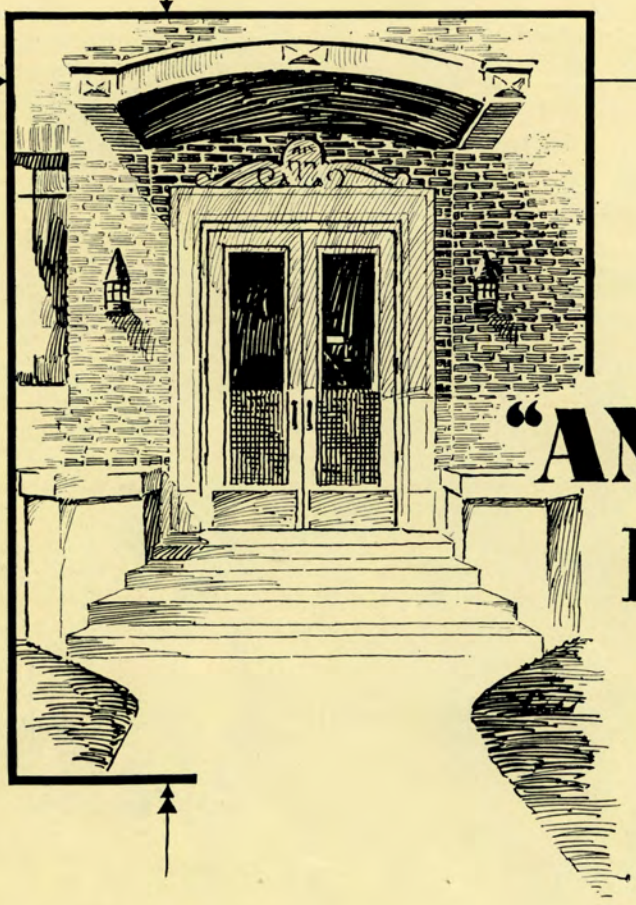


Left: Sykes-Herringbone Gears for the Lufkin Herringbone Unit. *Right:* "Lapping in" machine used for lapping in and matching to insure absolute precision of the Sykes tooth gear and pinion for the Lufkin Herringbone Unit. Gears and Pinions are cut to within .003" and then lapped in with ground glass and oil.

CENTER: ON THE PRODUCTION LINE AT LUFKIN

Lufkin Units come through the shop in regular production style. The most up-to-date machines are used and modern production methods are employed in all departments. A constant rigid inspection department is maintained which keeps Lufkin products up to a standard otherwise impossible to attain.

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Entrance to new office of the Lufkin Foundry & Machine Company

"AND THE END IS NOT YET"

Thirty odd years ago the Lufkin Foundry & Machine Company came into existence. Lufkin, at that time, was centrally located in the thickly forested pine belt of East Texas. The "plant" at that period consisted of one large wooden building and a few used tools. Its purpose was "a handy repair shop" for the yellow pine mills nearby.

From this humble beginning has grown one of the South's important factories.

For the first time in the South, a complete saw mill plant was manufactured by this concern.

For the first time in the Southwest, refinery fittings of a special nature were manufactured in Lufkin.

For the first time in the Southwest, heavy duty pipe line fittings were manufactured in Lufkin.

For the first time *anywhere,* the first successful reduction geared pumping unit for the oil fields was manufactured by the Lufkin concern who were pioneers in this type of oil field equipment.

In addition to developing the first successful reduction gear for pumping and pulling—

Lufkin developed the first counter-balanced crank;

The Trout dust proof, oil bath Pitman;

And many other improvements for the oil industry.

Modern buildings, production tools and capable men are being constantly added to the facilities and forces of this Southern institution. Today it leads all others in the production and sale of its particular specialty—LUFKIN PUMPING UNITS—

"And the end is not yet."

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