

Shafco --Around The Oil Patch And Back Again



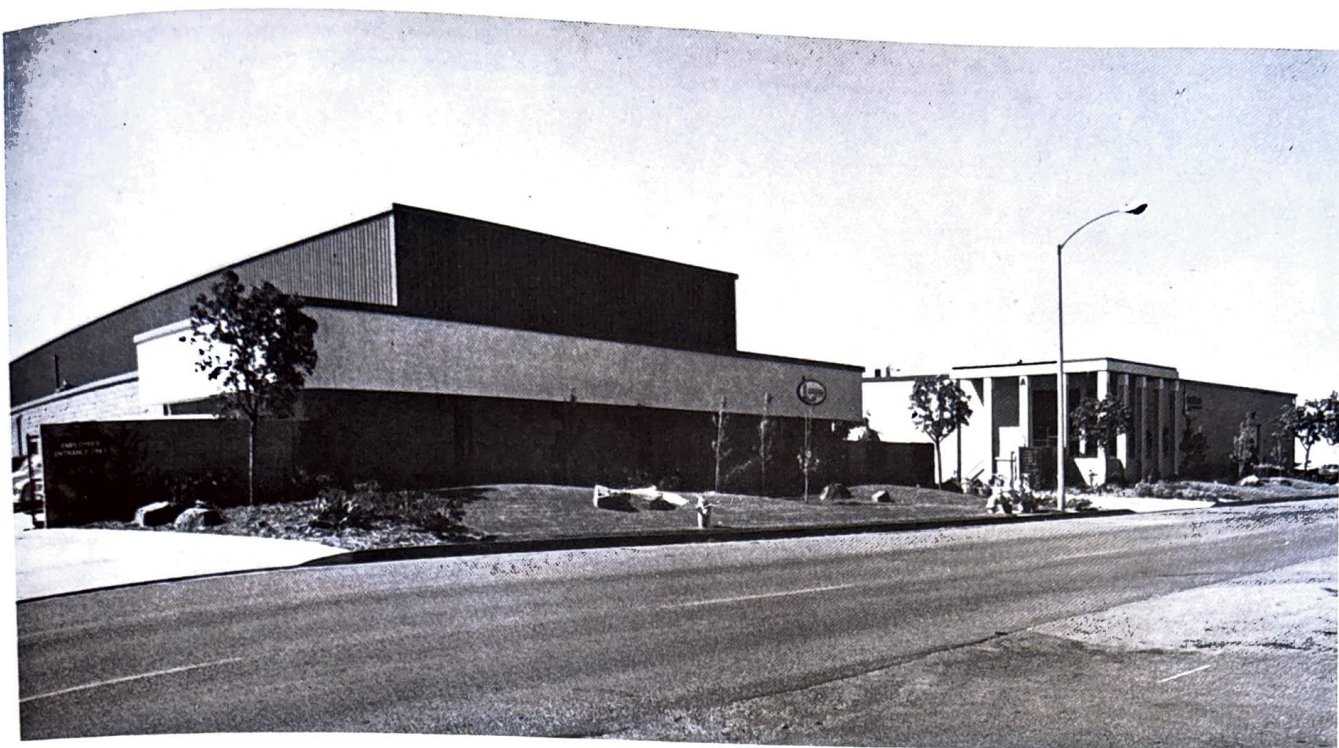
Shafco founders look to a bright future. Shown here, left to right, are Mrs. Elizabeth R. (Shaffer) Wilson, Donald U. Shaffer, and Esther M. (Shaffer) Sandman.

"We do get around the oil patch," is what Shafco Industries says about itself.

This is far from an overstatement by the well known manufacturer of blow-out preventers and wellhead equipment.

Shafco was founded by Donald U. Shaffer in 1971. But this is just a latter-day episode in the drama of a pioneer oiltool manufacturing family that has quite literally put its mark on the drilling industry since early in the century.

The family patriarch William D. Shaffer was superintendent of an oiltool shop in Bakersfield in 1903. Coming to Brea in 1922, at the time of the Santa Fe Springs and Signal Hill booms, he soon after founded Shaffer Tool Works. He demonstrated his genius for oiltool design early on; his first patent was for



Shafco corporate headquarters and manufacturing facilities in Anaheim, California.

the Flow Bean, a device that accurately controlled and measured oil flow. His greatest success was the blowout preventer he invented a few years later. This much needed device was soon saving oil—and equipment, and lives—all over the world.

When he died in 1946 his son Donald became president of the company. Under Don's hand the company continued to grow and prosper. But after a couple of decades he decided to sell the family business and take life a little easier. Which he did. For a time. But once you've been a mover and a shaker, it's hard to simply coast on past glories.

Twelve years ago he founded Shafco Industries, Inc., in Santa Fe Springs, where he soon demonstrated that he hadn't lost his touch. Once again his blowout and wellhead equipment was in use all over the world.

To meet industry needs, and an ever-increasing demand, Shafco recently moved into a new manufacturing complex; a modern 65,000-square-foot facility on 4.5 acres in Anaheim.

Here a dedicated, experienced work force uses a 5-inch Lucas boring mill and a 60-inch vertical boring machine and other sophisticated equipment to produce precision close-tolerance oil-tools for the industry.

Shafco products include blowout preventers (both ram-type and annular type), wellhead equipment, drilling spools, spacer spools, adapters, flanges, crosses, tees and other fittings, kelly cocks, and all sizes and pressure ratings

of kill and choke manifolds. Shafco is one of the few manufacturers that also rents a full line of BOP equipment.

Shafco also fulfills a unique industry need by supplying *customized* blowout and wellhead equipment, built to the



Executive strategy meetings are held to discuss industry needs. Shown here, left to right, are Garry Stevens, vice president of marketing; Leland C. Launer, president; and Jerry Funderburk, vice president of production.

customer's exact specifications, as well as its line of standard products.

A major item — both standard and custom—is the Shafco ramtype blowout preventer, with its unique side-opening doors. This big benefit that drilling crews like is that they can change a ram in only about a half hour, compared to the *several* hours it can take with some kind of BOP's. On special order, preventers can be furnished that have an additional outlet between the ram compartments. Shafco *single-gate* preventers have a low overall height; they do not have side

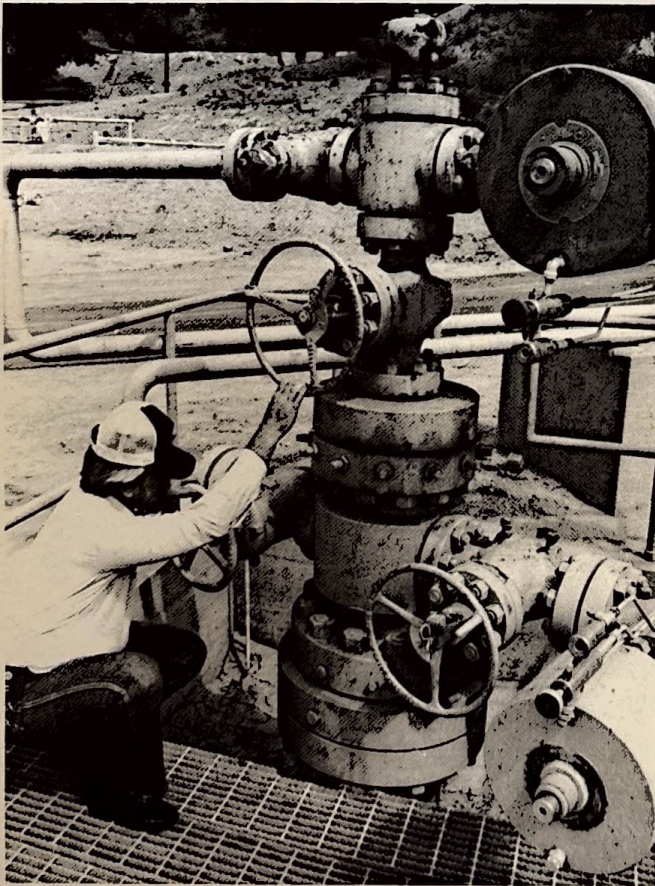
outlets. They are ideal for designated blowout-preventer assemblies — for instance, those that require two or more single gates spaced with drilling spools having outlets for connections to kill and choke manifolds.

Shafco annular blowout preventers are also rugged, efficient units designed to protect workers and equipment in any sudden emergency. Without any change of parts, the BOP's safely meet pressure control requirements at all times, regardless of the kind of drilling equipment passing through them.

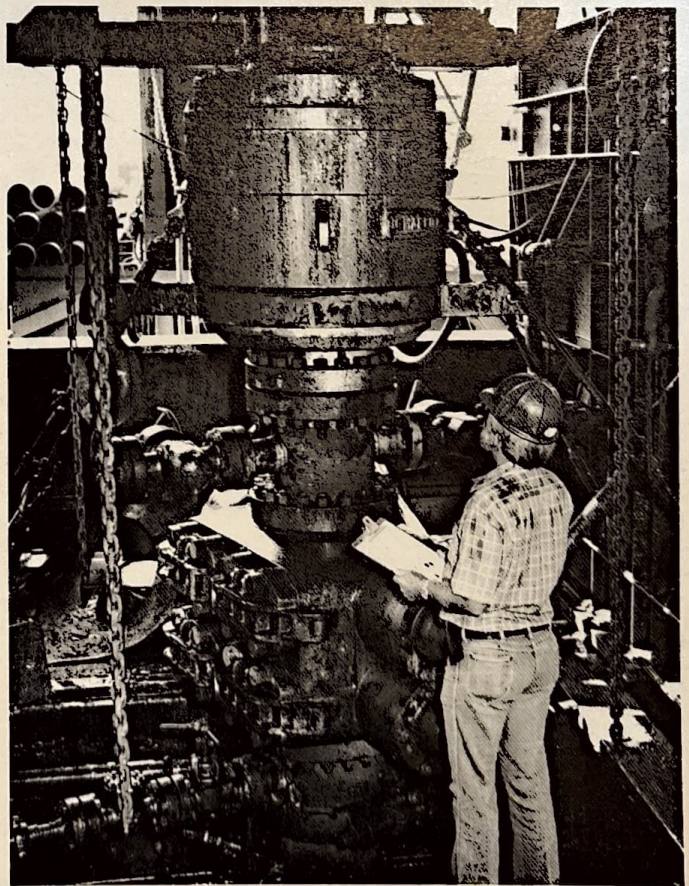
When setting pressure is applied to the BOP's closing chamber, the packing unit squeezes whatever's in the drill string, and adjusts to the size and shape of what it is holding. Items as small as tubing or as large as casings are packed off with equal efficiency. If the hole is empty, the BOP closes upon itself for a positive seal.

A regulator valve lets the operator vary the tightness of the packing to aid in drilling, stripping, or other procedures.

The up-to-5,000-P.S.I. holding power of Shafco annular blowout preventer is



Technician inspects a Shafco wellhead.



Shafco blowout preventer in operation off the California coast.

made possible by a uniquely engineered combination of high-tensile-strength rubber packing molded around a circle of flanged metal ribs that close like steel fingers around drilling tools.

The dependability of the Shafco annular BOP owes as much to superior design features as to great strength. When a blowout threatens, the unit can be closed immediately, regardless of the size and shape of what it encompasses.

Safety is further enhanced by a design feature that harnesses the well's own pressure to increase the closing force of

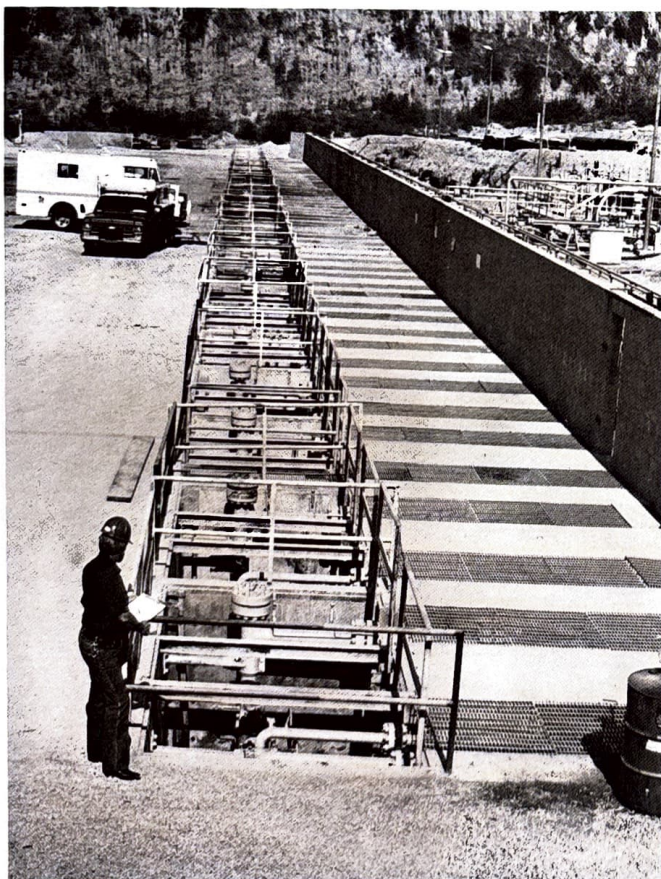
the jaws. So, the greater the pressure, the greater the power of the Shafco blowout preventer holding the force in check.

Shafco's outstanding drilling and production equipment is distributed through corporate headquarters in Anaheim, California and through sales and service centers in Bakersfield, California, Rio Vista, California, Ventura, California, Calgary, Alberta, Canada, and Soldotna, Alaska.

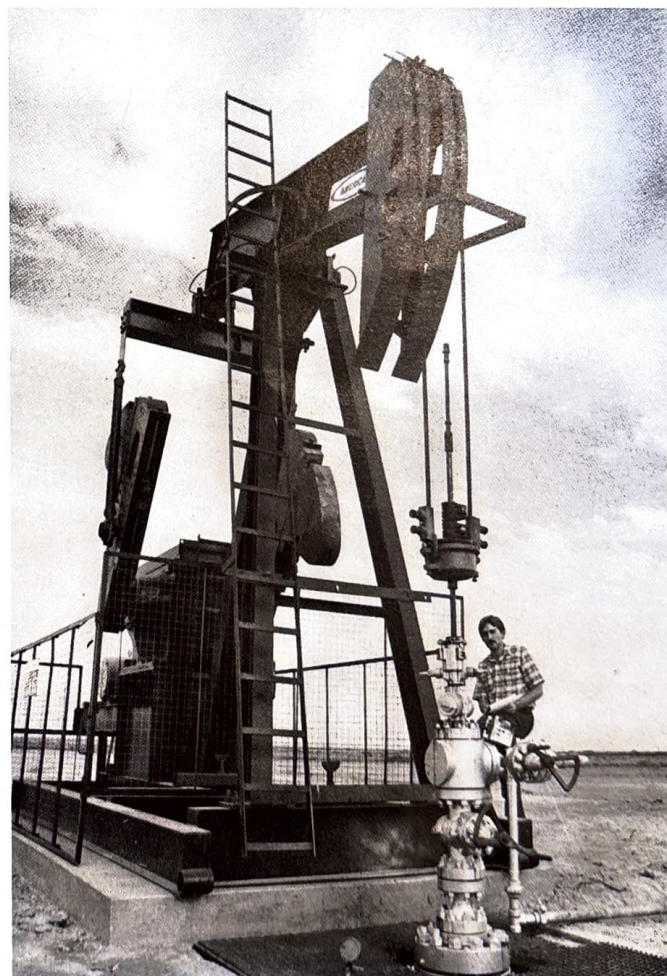
The Shaffer family makes a point of the thought, ingenuity, and meticulous attention to detail, that mark all their

products. They like to feel that their quality control is the most stringent in the business. They even carry it over into their rental service. When a blowout preventer returns from the field, it receives the same tough quality control tests as a newly made BOP. If it falls short in any way, its parts are immediately replaced with new ones.

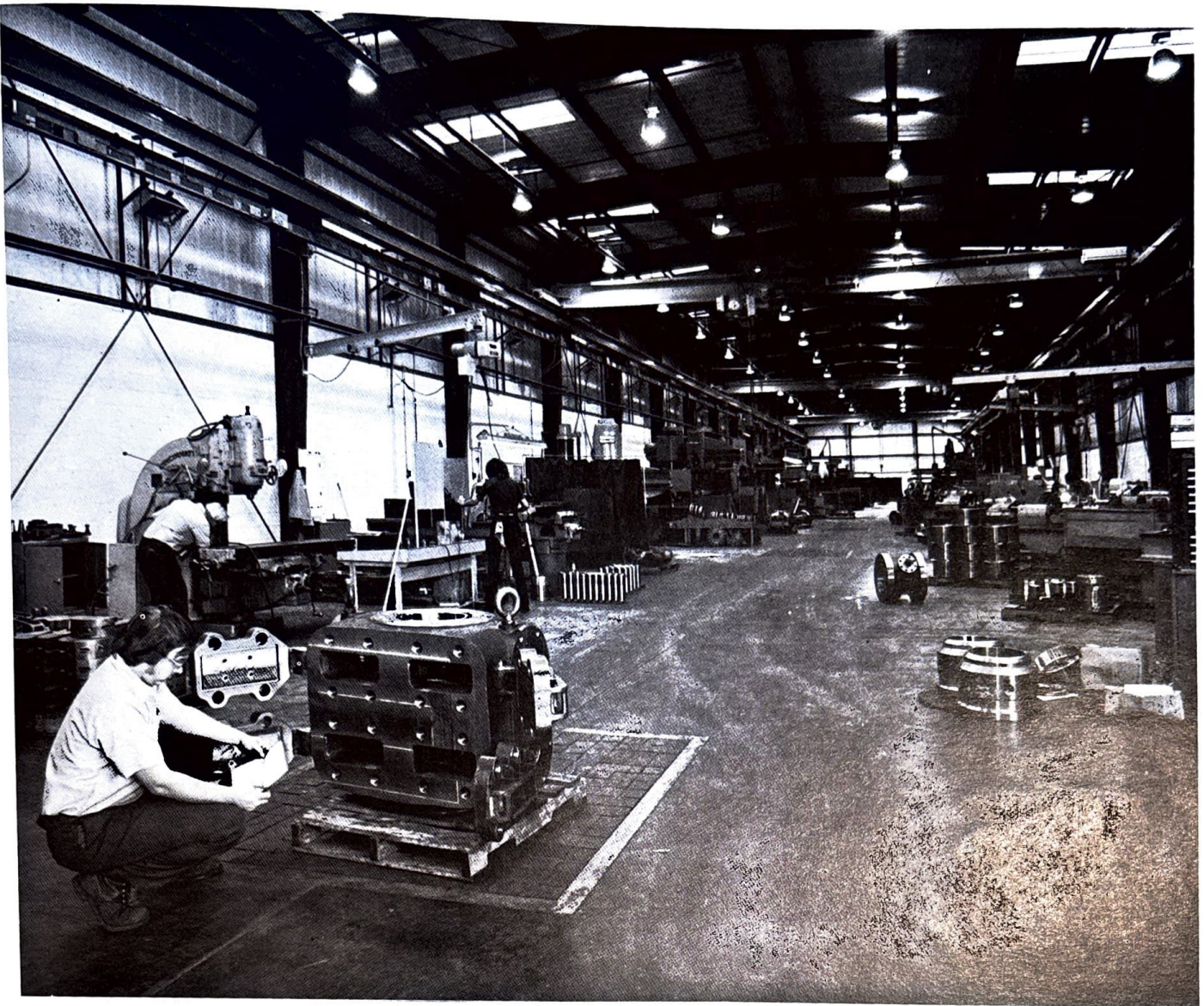
In quality control, in service, in advanced products, Shafco is firmly dedicated to not only meeting the industry's needs anywhere in the world, but in setting the example.



Shafco wellheads line up as far as the eye can see in a gas storage field.



Shafco wellhead in operation at a Bakersfield oil field.



Shafco's meticulous quality assurance procedures are adhered to throughout Shafco's production of blow-out and wellhead equipment.

Having called on Shafco and its predecessor company since 1954 and known some of its staff personally and being a 19 year Brea resident where the company was founded, I am taking publisher's privilege for a comment. There are few pioneer companies in existence today who have retained the original qualities and spirit that "made America great." Shafco can be included in this select group. These qualities of honesty, skill, hard work, pride of performance, loyalty, (Shop Supt. Bob Burke has 35 year of service for the Shaffer Companies) are still evident at Shafco today. Founder W. D. Shaffer

instilled in his family business and personal traits that still project in the company. The Shaffer family continue service and contribution to the Brea community which etches them in the town's history. Shafco has earned a standing confidence in the oil patch that can only be earned. It has been my pleasure to work with many Shafco-ites over the years through business, industry activities, Brea activities, including the company leader Don Shaffer, president, Lee Launer (long an industry, legal and educational leader from the pioneer Launer family of Fullerton), the late Norm LeRoy (my dear former neigh-

bor who had the longest company tenure and established the international operation while being one of the NOMADS finest representatives), Frank Schweitzer, Jr. (whose father, Frank Sr., was a beginning company management principal and both served as Mayor of Brea), Jerry Funderburk, Pauline Crow, Ed Cugini, Garry Stevens, Chuck Shaffer, Anita Hodges, Bill Krupp, the late Pete Peterson, Congratulations and continued success and good luck to you Don, Mrs. Sandman, Mrs. Wilson, Lee and the Shafco team.

THE PUBLISHER

(From the BREA STAR newspaper, March 13, 1922)

\$50,000 PLANT TO BE
BUILT IN BREA

Under the name of Brea Tool Works, W. J. Travers, F. J. Schweitzer, A. D. Yost and M. Burroughs of Brea are incorporating for \$50,000, a new company, the business of which will be located in their new building to be erected at once at Redwood Avenue and Olinda Boulevard. Mr. Travers, Superintendent of the Olinda Land Company is President of the organization; Mr. Schweitzer, who resigned as Superintendent of the Pacific Gas Company after serving eight years, and who also was formerly Superintendent of oil tool shops in Southern California fields for the West Coast, Olinda and Standard Oil Companies, will be General Manager; and Mr. Yost will be First Vice President.

The first unit of the building will be 40 x 80 and will be located on their property which is 150 x 160 feet, other units to be added as needed. The manufacture and repair of oil tools machinery in general will be handled by the Company - there will be included in the equipment three lathes, radial drill, planer, shaper, an 800 pound hammer, as well as smaller machinery. A blacksmith shop with equipment for smaller forging will be operated in connection with the shops.

FOUNDING OF THE COMPANY

Excerpts from History of Brea, California by Purl Harding

In 1922 a machine shop with location at the corner of Birch St. and Redwood Ave. was organized and incorporated under the name of the Brea Tool Works. The officers were Wm. J. Travers, Pres., Frank J. Schweitzer, Secy-Treas., A. D. Yost, 1st Vice-Pres., W. L. Burroughs, 2nd Vice-Pres. Other stockholders were J. F. Pendleton, J. H. Royer, Forrest Hurst and R. I. Jones.

In November 1922 Wm. D. Shaffer acquired the stock of the company owned by Wm. J. Travers and Mr. Shaffer succeeded Mr. Travers as Pres.

The company was in business for a little over a year when the Baash-Ross Tool Co., being urgently in need of machine tools for the manufacture of tool joints made the directors of the Brea Tool Works a tempting offer for their plant. They accepted the offer and the deal was closed and the Brea Tool Works discontinued business.

The Baash-Ross operated the plant until they had caught up with their extensive orders for tool joints when they removed the machine tools to their enlarged plant on Pomona Ave. and Shaffer purchased the building on Birch St. and Redwood Ave. and initiated the beginning of the Shaffer Tool Works, an account of which we will record in another paragraph. (119N)

From BREA STAR, Monday, March 13, 1922

\$50,000 PLANT TO BE BUILT IN BREA

Under the name of Brea Tool Works, W. J. Travers, F. J. Schweitzer, A. D. Yost and M. Burroughs of Brea are incorporating for \$50,000 a new company, the business of which will be located in their new building to be erected at once at Redwood Ave. and Olinda Blvd. Mr. Travers, Supt. of the Olinda Land Co. is Pres. of the organization. Mr. Schweitzer, who resigned as Supt. of the Pacific Gas Co. after serving 8 yrs, and who also was formerly Supt. of Oil Tool Shops in Southern California fields for the West Coast, Olinda and Standard Oil Companies, will be ^{general} manager and Mr. Yost will be 1st Vice-Pres.

The first unit of the building will be 40 x 80^{ft} and will be located on their property which is 150 x 160 feet; other units to be added as needed. The manufacture and repair of oil tools and machinery in general will be handled by the company and there will be included in the equipment 3 lathes, radial drill, planer, shaper, an 800 pound hammer, as well as smaller machinery. A blacksmith shop with equipment for smaller forging will be operated in connection with the shop.

In 1919 L. F. Baash and H. C. Ross started a small machine and repair shop in the bldg. on E. Ash St. formerly occupied by the Brea Machine Shop. Mr. Baash had developed a casing perforator and established himself with the help of Mr. Ross, in this building to build and service the casing perforator. Their success was immediate. Many new oilfields were discovered during this heyday of extensive drlg. with the new method of drlg. w/rotary tools. In 1921, having outgrown the small shop on E. Ash St. the Baash-Ross Tool Co. was incorporated and a large bldg. was erected on the property previously occupied by the Std. Oil fld. shops on the west side of N. Pomona, so. of the P.E. rlwy tracks (now site of Plant 2). The officers & stockholders were Lawrence F. Baash, Hans C. Ross, A. F. Brown and Hm. M. Dailey. Wm. E. Krupp was the secy-treas. They were fortunate in securing the mfg license on the Gulberson patented rotary tool joint and along with their other products, such as the Safety Joint, Hosmer Blowout Prev. H & W Slips, Hosmer Tbg Hd & a list of other oil field equip, they grew into one of the large oil tool mfrs of so. Calif. The L. F. Baash Perforating Co. had a shop alongside the tool co's shop in which they handled the perforating & csg cutter business as well as other fishing tools. It was in 1924 that the Baash-Ross Tool Co. withdrew from Brea & moved their establishment to 5512 S. Boyle Ave in Vernon.

From: History of Brea

In the beginning Mr. Shaffer intended to continue oil field repair work and to supplement this type of work with a few manufactured oil field specialty tools. The first manufactured item consisted of a line of well head equipment suitable for the wells and pressures of that time. He also conceived the idea of an adjustable choke or needle valve to regulate the flow of oil and gas.

Prior to this development, wells were allowed to flow to their maximum capacity and if a restriction was required, the operator merely installed a choke in the Xmas Tree Assembly.

Mr. Shaffer's adjustable flow bean was a radical departure from the conventional flow control apparatus and he became known throughout the oil industry for this particular product.

The device was a comparatively simple unit consisting of a valve similar to the conventional needle valve, except that Mr. Shaffer noted in his repairs of the regular chokes that the flow from a well when restricted had a tendency to flare in at the entrance of the choke head, also flare outwardly from the restriction similar to a Venturi Orifice. He therefore incorporated the Venturi Effect in his adjustable flow valve. Today many thousands of Shaffer Adjustable Flow Beans are in use throughout the oil world.

During the year 1927 there were several costly and disastrous blowouts in the Santa Fe Springs oil field and the resulting loss of gas and oil from the prolific high pressure zones had much effect on the depletion and potential production of that field. Mr. Shaffer observed that the drilling crews were almost helpless to prevent these blowouts since they generally occurred while drill pipe was in the hole. There were no adequate provisions for sealing the high pressures being encountered and Mr. Shaffer conceived the idea of a ram type packing element which would seal around the drill pipe and thus close the annulus between the casing and the drill pipe. Thus was created the SHAFER CELLAR CONTROL GATE which is now standard equipment on a majority of the drilling wells throughout the oil world.

Although Mr. Shaffer's blowout preventer design was comparatively simple, there were many problems concerned with its development. During the first year there were many discouraging moments and the project was almost abandoned several times. The most difficult problem was to obtain a satisfactory high pressure casting since foundry techniques had just evolved from low pressure cast iron practices and the foundries could not produce a satisfactory pressure casting. The success of the Shaffer Control Gate was rather sudden and unexpected. An urgent call was received from an operator in the Seal Beach oil field. He needed a blowout preventer immediately to install on a well which had just encountered a very high pressure gas zone. One of the experimental Shaffer Control Gates was quickly assembled and rushed to the well site. It was installed with considerable difficulty since the well was already blowing mud, rocks and sand. The ram packing element was closed around the drill pipe and to the amazement of the drilling crew, the well was under complete control. The word spread quickly that Shaffer had developed a blowout preventer that was quick and simple to operate and one which would actually hold pressures. The success of the Shaffer Gate was assured. All of the discouraging delays and the expense of the development work was quickly forgotten.

Soon after the success at Seal Beach, Shaffer Control Gates prevented costly blowouts at Ventura, Santa Fe Springs and Long Beach. Continued development of the original design by Mr. Shaffer and also by Mr. Frank J. Schaefer Sr., one of the original founders of the company, led to many improvements and eventually nearly every drilling well in California was equipped with Shaffer Gates. It would not have been possible to have drilled into the high pressure production zones of the Kettleman Hills and Belridge oil fields without the protection of Shaffer Gates.

The original Shaffer Gate was a single ram type element preventer which was actuated by two heavy operating screws having right and left hand screws. These operating screws fit into bronze nuts attached to the ram assembly and as they were turned through a sprocket and chain mechanism the ram unit opened or closed to seal the well bore. Along with general improvements in the ram design foundry techniques continued to improve with resulting increases in rated working pressures. Shaffer produced the first 3000 PSI test well control assembly and by 1930 had produced the first assembly tested to 6000 PSI. Test pressures of 10,000 PSI are now quite commonplace but in 1929 and 1930 it took real courage and ingenuity to develop such test equipment.

In 1935 Shaffer developed the Double Gate which combined the ram type preventer in one unit, and yet complete closure and ease to close on drill pipe or tubing. The original Double Gates were limited to smaller sizes and lower pressure ratings because local foundries did not have the capacity for the heavier high pressure alloy steel castings. By 1936 Shaffer was able to produce 6000 PSI test Double Gates in all nominal sizes and with the introduction of "slim hole" drilling practices, the Shaffer Double Gate became standard equipment on most drilling wells. Slim hole drilling generally requires a portable mast type drilling rig with very low substructures with the resulting demand for the most compact, low height drilling control equipment.

It is interesting to note during the development years of the Shaffer Gate that although Shaffer Tool Works had very limited export representation and could only afford a limited advertising campaign, many Shaffer Gates were sold to overseas customers. Drillers who had used the preventer in California or Texas were transferred to foreign jobs and demanded the protection of the Shaffer Gate. Many of the early model Shaffer Gates are still in active service controlling high pressure drilling wells.

With the era of deep drilling it became apparent that higher pressures would be encountered and the very highest safety factors must be considered. The development of a hydraulically operated preventer was started in 1940 but all work was postponed during the War years. In 1945 Shaffer introduced the Hydraulic Double Gate which utilized the proven ram sealing element with a hydraulic operating mechanism. Several basic ideas were incorporated in the Hydraulic Double Gates including quick and positive closure, side opening doors to change rams and compactness of design. The direct in-line pistons provide better than 6 to 1 closing ratio thus assuring control of the highest well pressures. The application of hydraulic power eliminated hand slowing and is in keeping with modern drilling practices to provide the driller and his crew with push button controls.

The name SHAPPER has become synonymous with the control of high pressures. Recently one of the foreign operators advised us that for many years he thought the English word for Blowout Preventer was SHAPPER and any Blowout Preventer would be termed a SHAPPER...

SHAPPER products have world-wide distribution, partly through their efficient sales organization, partly by reputation established domestically, and partly by extensive advertising. Continued development keeps SHAPPER TOOL WORKS ahead of competition in their field of endeavor. The SHAPPER line of specialty fishing tools in many cases is without competition and the development of the hydraulically operated Blowout Preventer is well ahead of competitive designs.

The main plant and office has always been in Brea, California where there are now three manufacturing plants. Other plants are located at Santa Fe Springs and Taft, California. SHAPPER TOOL WORKS also maintains offices and warehouses in Santa Maria, Bakersfield, Avenal and Ventura, California; Oklahoma City, Oklahoma, Houma, Louisiana, Houston and Odessa Texas, Farmington, New Mexico, Casper, Wyoming, Denver, Colorado and an export office in New York City.

(From the BREA STAR newspaper, March 13, 1922)

**\$50,000 PLANT TO BE
BUILT IN BREA**

Under the name of Brea Tool Works, W. J. Travers, F. J. Schweitzer, A. D. Yost and M. Burroughs of Brea are incorporating for \$50,000, a new company, the business of which will be located in their new building to be erected at once at Redwood Avenue and Olinda Boulevard. Mr. Travers, Superintendent of the Olinda Land Company is President of the organization; Mr. Schweitzer, who resigned as Superintendent of the Pacific Gas Company after serving eight years, and who also was formerly Superintendent of oil tool shops in Southern California fields for the West Coast, Olinda and Standard Oil Companies, will be General Manager; and Mr. Yost will be First Vice President.

The first unit of the building will be 40 x 80 and will be located on their property which is 150 x 160 feet, other units to be added as needed. The manufacture and repair of oil tools machinery in general will be handled by the Company - there will be included in the equipment three lathes, radial drill, planer, shaper, an 800 pound hammer, as well as smaller machinery. A blacksmith shop with equipment for smaller forging will be operated in connection with the shops.

SHAFFER PIONEERED WITH UNION OIL COMPANY

Dating back to the year 1900, the story of W. D. Shaffer, President of Shaffer Tool Works, closely follows that of the progress of the Petroleum Industry in California. In that year Mr. Shaffer started his oil tool experience in the shops of the Union Oil Company at Santa Paula, where old timers will remember "Ed" Double as Superintendent, and where Ben Younken and W. J. Travers were machinists and Frank Dinger was the blacksmith.

During the years that followed, Mr. Shaffer had progressed to the position of joint turner and worked along with Dick Smith (now associated with National Supply Company) at Baker Iron Works, then in various shops in the San Joaquin Valley and was for several years employed by Charles Victor Hall in Olinda as Superintendent of Shops.

From 1909 to 1917 Mr. Shaffer was President of the Santa Paula Garage and Machine Company at Santa Paula, leaving there to work with the Montebello Oil Company at Fillmore and the Oak Ridge Oil Company at Santa Paula; and in 1922 he acquired an interest in the Brea Tool Works. This company was sold to Baash-Ross Tool Company in 1923 but the land and buildings were resold to Mr. Shaffer, who established Shaffer Tool Works at Brea.

Since that date the efforts of Mr. Shaffer and his organization have been devoted to the development and perfecting of high pressure control equipment, landing heads, fishing tools and other specialties which are accepted internationally as the finest of their kind. Mr. Shaffer's experience over a period of 40 years justly entitles him to be termed a Pioneer, and the unquestioned merit of Shaffer Products warrants the title of Leadership in the development of oil well drilling tools and control equipment.

The history of SHAFER TOOL WORKS is comparatively recent and packed full of action. The Company was first organized in March 1922 by William J. Travers, Frank Schweitzer, Sr., A. D. Yost and M. Burroughs, under the name of BREA TOOL WORKS. At that time Brea was surrounded by very active oil fields: Yuba Linda, Richfield, Atwood and the Brea Canyon oil field were in the stages of a drilling boom.

Primarily the company served the area as an oil field repair shop. Typical of the oil field repair shops of that day, machinery and equipment for this type work consisted of a few lathes, drill press, milling machine, shaper and welding shop. Other shops located in Brea at the time were, the Union Tool Company (now known as the National Supply Company), Specialty Oil Tool Company, Chiksan Company, Duro Engineering, Brea Boiler Works and Beach Ross Tool Company.

Mr. W. J. Shafer bought an interest in the Brea Tool Works in the fall of 1929. A few months later, the Company and its assets were sold to Beach Ross Tool Company. This firm had received a very large order from the Amtorg Trading Post, a Russian purchasing company. In order to fill it, they required additional shop facilities. After completing the contract with Amtorg, Beach Ross moved most of their equipment out of Brea, and the equipment they left behind was purchased by Mr. Shafer. Most of his partners in Brea Tool Works joined him in the new venture believing that the oil industry had reached a saturation point and there was already too much oil for normal consumption. Mr. Shafer thereafter operated the Company for many years under the name of Shafer Tool Works as full owner, prior to forming

The name SHAFFER has become synonymous with the control of high pressures. Recently one of the foreign operators advised us that for many years he thought the English word for Blowout Preventer was SHAFFER and any Blowout Preventer would be termed a SHAFFER...

SHAFFER products have world-wide distribution, partly through their efficient sales organization, partly by reputation established domestically, and partly by extensive advertising. Continued development keeps SHAFFER TOOL WORKS ahead of competition in their field of endeavor. The SHAFFER line of specialty fishing tools in many cases is without competition and the development of the hydraulically operated Blowout Preventer is well ahead of competitive designs.

The main plant and office has always been in Brea, California where there are now three manufacturing plants. Other plants are located at Santa Fe Springs and Taft, California. SHAFFER TOOL WORKS also maintains offices and warehouses at Santa Maria, Bakersfield, Avenal and Ventura, California; Oklahoma City, Oklahoma, Houma, Louisiana, Houston and Dallas Texas, Farmington, New Mexico, Casper, Wyoming, Denver, Colorado and an export office in New York City.

(From the BREA STAR newspaper, March 13, 1922)

**\$50,000 PLANT TO BE
BUILT IN BREA**

Under the name of Brea Tool Works, W. J. Travers, F. J. Schweitzer, A. D. Yost and M. Burroughs of Brea are incorporating for \$50,000, a new company, the business of which will be located in their new building to be erected at once at Redwood Avenue and Olinda Boulevard. Mr. Travers, Superintendent of the Olinda Land Company is President of the organization; Mr. Schweitzer, who resigned as Superintendent of the Pacific Gas Company after serving eight years, and who also was formerly Superintendent of oil tool shops in Southern California fields for the West Coast, Olinda and Standard Oil Companies, will be General Manager; and Mr. Yost will be First Vice President.

The first unit of the building will be 40 x 80 and will be located on their property which is 150 x 160 feet, other units to be added as needed. The manufacture and repair of oil tools machinery in general will be handled by the Company - there will be included in the equipment three lathes, radial drill, planer, shaper, an 800 pound hammer, as well as smaller machinery. A blacksmith shop with equipment for smaller forging will be operated in connection with the shops.

SHAFFER PIONEERED WITH UNION OIL COMPANY

Dating back to the year 1900, the story of W. D. Shaffer, President of Shaffer Tool Works, closely follows that of the progress of the Petroleum Industry in California. In that year Mr. Shaffer started his oil tool experience in the shops of the Union Oil Company at Santa Paula, where old timers will remember "Ed" Double as Superintendent, and where Ben Younken and W. J. Travers were machinists and Frank Dinger was the blacksmith.

During the years that followed, Mr. Shaffer had progressed to the position of joint turner and worked along with Dick Smith (now associated with National Supply Company) at Baker Iron Works, then in various shops in the San Joaquin Valley and was for several years employed by Charles Victor Hall in Olinda as Superintendent of Shops.

From 1909 to 1917 Mr. Shaffer was President of the Santa Paula Garage and Machine Company at Santa Paula, leaving there to work with the Montebello Oil Company at Fillmore and the Oak Ridge Oil Company at Santa Paula; and in 1922 he acquired an interest in the Brea Tool Works. This company was sold to Baash-Ross Tool Company in 1923 but the land and buildings were resold to Mr. Shaffer, who established Shaffer Tool Works at Brea.

Since that date the efforts of Mr. Shaffer and his organization have been devoted to the development and perfecting of high pressure control equipment, landing heads, fishing tools and other specialties which are accepted internationally as the finest of their kind. Mr. Shaffer's experience over a period of 40 years justly entitles him to be termed a Pioneer, and the unquestioned merit of Shaffer Products warrants the title of Leadership in the development of oil well drilling tools and control equipment.

230 IN BRE A

TOTAL 350

HISTORY OF

SHAFFER TOOL WORKS

First organized in 1922 under the name of Brea Tool Co., the name SHAFFER TOOL WORKS originated in 1923.

From the beginning the company specialized in oil field repair work and the manufacture of well head equipment.

In 1927 Mr. W. D. Shaffer created the Shaffer Cellar Control Gate. The Hydraulic Double Gate was introduced in 1948. Shaffer gates are now used on drilling wells throughout the world.

Today, besides Blowout Preventers and well head equipment, SHAFFER TOOL WORKS manufactures a complete line of fishing tools and subsea drilling equipment.

The main plant and office of SHAFFER TOOL WORKS is in Brea, California, where there are three manufacturing plants. Other California plants are located at Santa Fe Springs and Taft. SHAFFER TOOL WORKS also maintains offices and warehouses at Santa Maria, Bakersfield, Avenal and Ventura, California; Oklahoma City, Oklahoma; Houma, Louisiana; Houston and Odessa, Texas; Farmington, New Mexico; Blanding, Utah, Casper, Wyoming; Denver, Colorado; Edmonton, Alberta, Canada, and an export office in New York City.

The history of SHAFER TOOL WORKS is comparatively recent and packed full of action. The Company was first organized in March 1922 by William J. Travers, Frank Schweitzer, Sr., A. D. Yost and M. Burroughs, under the name of BREA TOOL WORKS. At that time Brea was surrounded by very active oil fields: Yorba Linda, Richfield, Atwood and the Brea Canyon oil field were in the stages of a drilling boom.

Primarily the company served the area as an oil field repair shop. Typical of the oil field repair shops of that day, machinery and equipment for this type work consisted of a few lathes, drill press, milling machine, shaper and welding shop. Other shops located in Brea at the time were, the Union Tool Company (now known as the National Supply Company), Specialty Oil Tool Company, Chiksan Company, Duro Engineering, Brea Boiler Works and Baash Ross Tool Company.

Mr. W. D. Shaffer bought an interest in the Brea Tool Works in the fall of 1922. A few months later, the Company and its assets were sold to Baash Ross Tool Company. This firm had received a very large order from the Amtorg Trading Post, a Russian purchasing company. In order to fill it, they required additional shop facilities. After completing the contract with Amtorg, Baash Ross moved most of their equipment out of Brea, and the equipment they left behind was purchased by Mr. Shaffer. None of his partners in Brea Tool Works joined him in the new venture, believing that the oil industry had reached a saturation point and there was already too much oil for normal consumption. Mr. Shaffer therefore operated the Company for many years under the name of Shaffer Tool Works as full owner, prior to forming a corporation.

In the beginning Mr. Shaffer intended to continue oil field repair work and to supplement this type of work with a few manufactured oil field specialty tools. The first manufactured item consisted of a line of well head equipment suitable for the wells and pressures of that time. He also conceived the idea of an adjustable choke or needle valve to regulate the flow of oil and gas.

Prior to this development, wells were allowed to flow to their maximum capacity and if a restriction was required, the operator merely installed a choke in the Xmas Tree Assembly.

Mr. Shaffer's adjustable flow bean was a radical departure from the conventional flow control apparatus and he became known throughout the oil industry for this particular product.

The device was a comparatively simple unit consisting of a valve similar to the conventional needle valve, except that Mr. Shaffer noted in his repairs of the regular chokes that the flow from a well when restricted had a tendency to flare in at the entrance of the choke hand, also flare outwardly from the restriction similar to a Venturi Orifice. He therefore incorporated the Venturi Effect in his adjustable flow valve. Today many thousands of Shaffer Adjustable Flow Beans are in use throughout the oil world.

During the year 1927 there were several costly and disastrous blowouts in the Santa Fe Springs oil field and the resulting loss of gas and oil from the prolific high pressure zones had much effect on the depletion and potential production of that field. Mr. Shaffer observed that the drilling crews were almost helpless to prevent these blowouts since they generally occurred while drill pipe was in the hole. There were no adequate provisions for sealing the high pressures being encountered and Mr. Shaffer conceived the idea of a ram type packing element which would seal around the drill pipe and thus close the annulus between the casing and the drill pipe. Thus was created the SHAFER CELLAR CONTROL GATE which is now standard equipment on a majority of the drilling wells throughout the oil world.

Although Mr. Shaffer's blowout preventer design was comparatively simple, there were many problems concerned with its development. During the first year there were many discouraging moments and the project was almost abandoned several times. The most difficult problem was to obtain a satisfactory high pressure casting since foundry techniques had just evolved from low pressure cast iron practices and the foundries could not produce a satisfactory pressure casting. The success of the Shaffer Control Gate was rather sudden and unexpected. An urgent call was received from an operator in the Seal Beach oil field. He needed a blowout preventer immediately to install on a well which had just encountered a very high pressure gas zone. One of the experimental Shaffer Control Gates was quickly assembled and rushed to the well site. It was installed with considerable difficulty since the well was already blowing mud, rocks and sand. The ram packing element was closed around the drill pipe and to the amazement of the drilling crew, the well was under complete control. The word spread quickly that Shaffer had developed a blowout preventer that was quick and simple to operate and one which would actually hold pressures. The success of the Shaffer Gate was assured. All of the discouraging delays and the expense of the development work was quickly forgotten.

Soon after the success at Seal Beach, Shaffer Control Gates prevented costly blowouts at Ventura, Santa Fe Springs and Long Beach. Continued development of the original design by Mr. Shaffer and also by Mr. Frank J. Schwelger Sr., one of the original founders of the company, led to many improvements and eventually nearly every drilling well in California was equipped with Shaffer Gates. It would not have been possible to have drilled into the high pressure production zones of the Kettleman Hills and Belridge oil fields without the protection of Shaffer Gates.

The original Shaffer Gate was a single ram type blowout preventer which was actuated by two heavy operating screws having right and left hand screws. These operating screws fit into bronze nuts attached to the ram assembly and as they were turned through a sprocket and chain mechanism the ram unit opened or closed to seal the well bore. Along with general improvements in the ram design foundry techniques continued to improve with resulting increases in rated working pressures. Shaffer produced the first 3000 PSI test well control assembly and by 1930 had produced the first assembly tested to 6000 PSI. Test pressures of 10,000 PSI are now quite commonplace but in 1929 and 1930 it took real courage and ingenuity to develop 6000 lbs. test equipment.

In 1934 Shaffer developed the Double Gate which combined two ram type preventers in one unit, one for complete closure and one to close on drill pipe or tubing. The original Double Gates were limited to smaller sizes and lower pressure ratings because local foundries did not have the capacity for the heavier high pressure alloy steel castings. By 1936 Shaffer was able to produce 6000 lbs. test Double Gates in all nominal sizes and with the introduction of "slim hole" drilling practices, the Shaffer Double Gates became standard equipment on most drilling wells. Slim hole drilling generally employs a portable mast type drilling rig with very low substructures with the resulting demand for the most compact, low height drilling control equipment.

It is interesting to note during the development years of the Shaffer Gate that although Shaffer Tool Works had very limited export representation and could only afford a limited advertising campaign, many Shaffer Gates were sold to overseas customers. Drillers who had used the preventer in California or Texas were transferred to foreign jobs and demanded the protection of the Shaffer Gate. Many of the early model Shaffer Gates are still in active service controlling high pressure drilling wells.

With the era of deep drilling it became apparent that higher pressures would be encountered and the very highest safety factors must be considered. The development of a hydraulically operated preventer was started in 1940 but all work was postponed during the War years. In 1948 Shaffer introduced the Hydraulic Double Gate which utilized the proven ram sealing element with a hydraulic operating mechanism. Several basic ideas were incorporated in the Hydraulic Double Gates including quick and positive closure, side opening doors to change rams and compactness of design. The direct in-line pistons provide better than a 6 to 1 closing ratio thus assuring control of the highest well pressures. The application of hydraulic power eliminates hand closing and is in keeping with modern drilling practices to provide the driller and his crew with push button controls.

The name SHAFFER has become synonymous with the control of high pressures. Recently one of the foreign operators advised us that for many years he thought the English word for Blowout Preventer was SHAFFER and any Blowout Preventer would be termed a SHAFFER...

SHAFFER products have world-wide distribution, partly through their efficient sales organization, partly by reputation established domestically, and partly by extensive advertising. Continued development keeps SHAFFER TOOL WORKS ahead of competition in their field of endeavor. The SHAFFER line of specialty fishing tools in many cases is without competition and the development of the hydraulically operated Blowout Preventer is well ahead of competitive designs.

The main plant and office has always been in Brea, California where there are now three manufacturing plants. Other plants are located at Santa Fe Springs and Taft, California. SHAFFER TOOL WORKS also maintains offices and warehouse at Santa Maria, Bakersfield, Avenal and Ventura, California, Oklahoma City, Oklahoma, Houma, Louisiana, Houston and Odessa Texas, Farmington, New Mexico, Casper, Wyoming, Denver, Colorado and an export office in New York City.

OCT. 31

NORM LEROY HONORED

At the recent annual Shaffer Tool Works' Company picnic, a highlight was the presentation of a ~~gold watch~~ ^{SERVICE AWARD} to Norman H. LeRoy, honoring his 40 years of employee service.

A well known person in the oil industry through his local service and international travels, Norm is a true Angelian as he first saw the break of day in Los Angeles. He attended elementary schools in Los Angeles and Long Beach and Long Beach Polytechnic High School. He was a student at the University of Southern California school of Business Administration by working nights at the L. A. Shipbuilding Company.

^{a job opportunity ad}
In 1928 Norm answered/~~noticed~~ in the Los Angeles Times and was interviewed by Mr. Frank Mason, superintendent of Shaffer Tool Works, Brea. He was hired and started working on December 17, 1928 as time keeper, cost accountant and shipping-receiving clerk. In 1930 he worked additionally in sales and service in the Long Beach area. In spare time he acted as assistant shop foreman, under Mez Ward. In the latter part of 1930 a sales and collection office was opened in Los Angeles and he was placed in charge.

In 1931 he took charge of the Shaffer plant in Ventura which serviced all of the California area north of the Los Angeles Basin. In 1933 he was transferred back to Brea in charge of billing, quotations and shipping, where he served in this capacity until 1944. He was appointed shop superintendent, purchasing agent and general sales manager. In 1952 he became Shaffer's export sales manager and has served ever since. During the time he has been in this position he has traveled almost two million miles, visiting every major country except those in the Eastern Block.

Norm and his attractive wife, Peggy, reside in the Pleasant Hills area of Brea and are active in community and civic affairs. He has two sons, Norman, technical assistant to the manager of the El Segundo Refinery of Standard Oil Co. of California and Jerry, who is with Brea Alloy & Mfg. Co. Norm is the proud grandfather of three.

He is a member of the Los Angeles Chapter of NOMADS. In 1950 he joined the Masonic Lodge of which he came the master of the ~~Citrol~~ Lodge of Brea in 1954. In 1956 he became the Worthy Patron of the Order of Eastern Star and later became a Shriner and was a Commander of the York Rite Masons.

Norm, who worked for the Company founder, the late W. D. Shaffer, will be the only person able to claim 40 years of service with Shaffer Tool Works as most recently the Company became a subsidiary of The Rucker Company, Oakland, California whose operations include a group of petroleum equipment manufacturers.

Attending the Company ^{Picnic} celebration were Shaffer officials Don Shaffer, president; Elvin Wilson, executive vice president and Rucker president W. Gordon Jarvis and Kenneth Main, vice president-manufacturing. It is a tribute to both company and individual for such a fine, long term of service and it is not surprising that Norm has a host of friends who appreciate his pleasantness, kindness and courteousness.

California Oil World wishes him continued success and good luck.

(HARRY)

Norman H. LeRoy

Born December 6, 1907 in Los Angeles

Elementary schools in Los Angeles and Long Beach

Long Beach Polytechnic High School

Two years at University of Southern California - Business Administration
Worked at night at Los Angeles Shipbuilding Co. ~~at night~~ to go to college.
In 1928 saw an add in a Los Angeles Times paper for an job and upon answering
it was invited to a personal interview by Mr. Frank Mason superintendent
of Shaffer Tool Works of Brea. Hired by Mason and started working on
December 17, 1928 as Time keeper, cost accountant and shipping and receiving.
In 1930 he worked additionally in sales and service in the Long Beach ~~area~~
area. In spare time acted as assistant shop foreman, under Mez Ward.
In the latter part of 1930 a sales and collection office was opened in
Los Angeles and he was in charge of it.

In 1931 he took charge of the Shaffer plant in Ventura which serviced
all of the California area north of the Los Angeles basin. (Don Shaffer left and
In 1933 he came back to Brea and placed in charge of Billing, Quotations
and Shipping and served in this capacity until 1944 when he became
shop superintendent, purchasing agent and general sales manager.

In 1952 he was offered the position of Export Sales Manager which he accepted
and has served ~~in this~~ ever since. During the time he has been in this
position he has traveled at least 1,1/2 million miles visiting every major
country except those in the Eastern Block.

He has two sons, Norman ⁽⁴⁰⁾ who is ^{the} a Technical Assistant to the manager
of the El Segundo refinery of Standard Oil Co. of California and Jerry (29)
who is connected with Brea Alloys.

He is a member of the Los Angeles Chapter of the Nomads and in 1950
he joined the Masonic Lodge of which he became the master of the Citrol
Lodge of Brea in 1954. In 1956 became the Worthy Patron of the Order
of Eastern Star and later became a Shriner and was a Commandary ~~in~~ of
the York Rite Masons.

Son Norman has Three children , two girls and one boy, all teen agers.

Went to Woodbury Business College)



Norm LeRoy

ritzy estate where his wife and the kiddies impatiently wait to serve a repast that is fit for a king which the "ready cooked meal" man will presently bring. Then they'll all gather round to listen to dad relate what a strenuous day he has had; simply wearing his forefinger down to a nub to keep his extravagant family in grub.

Encomiums For Norm LeRoy

At the recent annual Shaffer Tool Works picnic, Norman H. LeRoy was the recipient of an award and some very flattering words, in commemoration of his 40th year with the Shaffer enterprises. Norm is a native Angeleno who attended elementary schools here and in Long Beach, graduating from Long Beach Poly and then financing his way through USC's School of Business Administration by working nights at the Los Angeles Ship Building plant. His association with Shaffer came from a sort of blind date. In 1928 he answered an ad in the Los Angeles Times and next thing he knew he was being interviewed by Frank Mason, Shaffer superintendent at Brea. He apparently made the right impression for he was hired and started work in December 1928 as time keeper, cost accountant, and shipping-receiving clerk. That was the beginning of a steady climb to business success. Two years later he added Long Beach sales service to his other responsibilities and in what was laughingly called his "spare" time he acted as assistant shop foreman under Mez Ward. Toward the end of 1930 a sales and collection office was opened in Los Angeles and guess who was put in charge? Natch, Norman LeRoy!

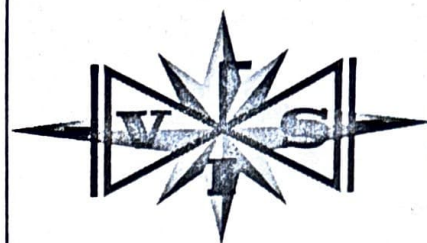
More Background

His next move was to that oil man's

paradise, Ventura, where he was placed in charge of the plant that provided service for all of California, north of the Los Angeles Basin. In another couple of years he was back at Brea, assigned to control of quotations, shipping, and billing, and for the following 11 years he handled these matters so well that he remained undisturbed, but in 1944 came a boost to shop superintendent, purchasing agent, and general sales manager. By 1952 export sales had become such a vital part of the Company's business that Norm was named export manager, the position he still holds. In the meantime he has traveled almost two million miles and has made the name Shaffer well known in every country excepting those in the eastern block. Norm and his attractive wife Peggy, reside in the Pleasant Hills section of Brea where they are pleasantly involved in all sorts of civic and community affairs. They have two sons, Norman, assistant to the manager of Standard Oil Company's El Segundo refinery; and Jerry who is with Brea Alloy & Manufacturing Company. There are also three grandchildren who think Norman and Peggy are very high class people.

Other Interests

Extra-curricularly, Norm is an active member of Nomads (L.A. Chapter) and as if all that wasn't enough, he joined the Masonic order in 1950 and by 1954 was Master of the Citrol Lodge. In 1956 he became Worthy Patron of the Eastern Star; subsequently joined the Shrine; and was also a Commander of the York Rite Masons. Since Shaffer Tool Works recently became a subsidiary of The Rucker Company of Oakland, California, which includes a group of petroleum equipment manufacturers, Norman LeRoy will undoubtedly be the only person to claim 40 years with Shaffer. He worked for and with the founder, the late W. D. Shaffer, and is justifiably proud to have played a part in building the company into an important entity in the petroleum equipment industry. Attending the function at which the presentation was made were Shaffer officials, Don Shaffer, president, and Elvin Wilson, executive vice president; and from The Rucker Company came W. Gordon Jarvis, president, and Kenneth Main, vice president manufacturing. We at California Oil World join with the immediate associates and many industry friends of Norman LeRoy, in congratulating him and wishing him many more years of good health and continued success!



V V
A A
L
V V
E E
S S

Valves To 20,000 PSI

- AMERICAN METER—Needle Valves, Meters and Controls
- CONSOLIDATED—Safety and Relief
- DEMCO—Gate, Butterfly
- HANCOCK—Forged, Bronze and Stainless Steel
- LADISH—Stainless & Other Alloy Valves
- MISSION—Plug & Duo-Chek & Pumps
- ORBIT—ASA & API
- ROCKWELL—Edwards Valves
- WALWORTH—Plug, Gate, Globe, Check & Needle
- WHEATLEY (FWI)—Check and Plugaroo
- WKM/ACF—Ball, Plug, Eccentric, Conduit Gate

Valve Accessory Products

- LADISH—Stainless Steel Flanges & Fittings
- LADISH—Flanges
- CISCO—API Rings & Stud Bolts
- JOHNS-MANVILLE—Flange Gaskets & Packings
- ROCKWELL—Plug Valve Parts, Lubricants, Accessories
- MISSION—Plug Valve Parts, Lubricants, Accessories
- WKM/ACF—Valve Parts, Lubricants, Accessories
- WALWORTH—Parts, Lubricants & Accessories
- Air and Hydraulic Valve Operators
- Special Manufactured Items

Valve Services

- Field Service
- Field Lubrication
- Authorized Orbit Service
- Authorized Mission Service
- Authorized WKM/ACF Service
- Engineering
- Corrosion Coatings
- Shop Reconditioning
- Preventive Maintenance

Valve Services, Inc.

13060 E. Firestone Blvd.
Santa Fe Springs, Calif. 90670
— (213) 921-1376 —
— (213) 773-4966 —

3732 Chester Ave.
Bakersfield
805 - FA 2-5266

County Road
Argus, Calif.

Ventu

Initiation of waterflood program economic feasibility study. Flank of the field on the p in California announced re vice president Getty Oil Co sion.

The pilot results from the agreement by Getty Oil, and some ers. The uni negotiations may for seven unit operator the possibilit duction from covered origi

Berg said t passes appro the eastern p is Ventura ing the coast three and fo



345 Pon

re: WHO'S MAKING A BUNDLE

We've all wondered just who is making it "hand-over-fist." The guy who is sure isn't telling everyone—I'll guarantee that.

Probably everyone has wondered how much profit a particular business makes—in actual dollars and cents. No doubt you can think of a business that you thought about recently.

Also, you probably asked yourself: How much cash (minimum) is needed to start that business? What kind of knowledge or experience is needed? How do they get their customers? Who do they buy from? How about locations, financing, etc.?

Knowing who is "making a bundle" and exactly how their businesses operate is part of my profession.

I've made my living during the past 18 years researching and investigating various businesses for investors, banking and lending institutions. I've investigated practically every business from popcorn stands to multi-level consumer and industrial organizations.

During this time, I have started and made successful 14 different small businesses of my own. Obviously, with my inside knowledge, I picked only the most profitable businesses around.

There were hundreds of opportunities I had to pass up since I had neither the time nor energy to pursue them. My earnings, however, were in seven figures from these enterprises, and numerous friends became wealthy from information I passed to them.

Two years ago my son suggested that there were thousands of people who have the desire, ability and a little cash to start their own businesses—but they didn't know which business to start.

Why not up-date the valuable information contained in my files into detailed business manuals?

Thus, *Insider's Report Business Manuals* were born, and now we have thousands of subscribers in every state and 37 foreign countries who receive two business-investigation reports and operating manuals each month.

Now, we have compiled the first year's reports into two volumes, and are making them available to non-subscribers.

Volume A is for the first-timer, or those who have little cash. The investment range is from \$100 to \$1,000 and the annual net profits range from \$15,000 to \$80,000.

Volume B covers businesses which require more cash, and is ideal for the person looking for an absentee

owner operation. The investment range is from \$1,500 to \$40,000 and these businesses have shown profits from \$20,000 to a whopping \$280,000 annually. A descriptive list of the contents of these two volumes is given below.

If you are interested in vague, get-rich-quick schemes or petty, unproven, unheard-of gimmicks for making money, *Insider's Reports* aren't for you. I report on nothing but solid, established and proven businesses.

EVERY INSIDER'S REPORT FEATURE CONTAINS EVERYTHING* YOU NEED TO KNOW TO START AND RUN THAT BUSINESS:

(*All Exact Figures from Case Histories)

1. The pitfalls — how to avoid them.
 2. Profit — how much to expect.
 3. Exact Costs — of everything to set up, open and operate.
 4. Equipment — what to buy and where to find it.
 5. Ways to save money on equipment, fixtures, etc.
 6. Rent — how much to pay.
 7. Location — how to choose the best.
 8. Leases — how to negotiate important points.
 9. Licenses & Permits — what to expect and how to get them.
 10. Merchandise — what to buy, how to buy, where to buy.
 11. If Retail — how to lay out your store and display your wares.
 12. Quick, cheap and impressive decorating ideas.
 13. Signs — how much, how big, where, and what to say.
 14. Employees — who to hire, what to pay and how to get performance.
 15. Advertising — how, where, when, and how much.
 16. Promotion — best gimmicks completely detailed.
 17. Insurance — what you need and how much.
 18. Knowledge — where to find it, buy, or rent it.
 19. Financing — how to finance your opening costs, — how to finance your sales to customers.
 20. Customers — how to bring them in and how to keep them.
 21. Pricing — what price to sell your products or services.
- AND HUNDREDS OF OTHER MINOR DETAILS

In other words, practically every question you can imagine is answered in detail. I gained my fine reputation by being thorough—so be prepared for it. *Insider's Reports* are not two-page newsletters, but magazine-size operating manuals.

I make it easy for you to get into business the smart way. My staff searches nationwide for the businesses in each field that have the best formulas.

We investigate the most successful in the field to find out why. We find out what locations are best and why, what merchandise sells best, who has the best sales technique, who has the most effective advertising gimmicks, who has the best internal controls, and on and on.

Therefore, these reports are often a composite of successful techniques taken from several proven and profitable operations in each field.

VOLUME A: Low-Investment Reports

BALLOON, Report 168. A budget deal for the person with little cash. Investment can not over \$20,000. Several case histories are detailed in one on a man making over \$100,000 selling balloons to kids. You can even leverage kid to work selling this. Of the won't want to share the profits.

SHOW PROMOTER, Report 278. You need to know anything about art to do this. There are thousands of artists out there. You can get an art gallery to show their work. You can even leverage kid to work selling this. Of the won't want to share the profits.

PHOTOGRAPHER, Report 2118. With an investment of less than \$500, you can — any knowledge of photography — Polaroid photos look like they were in the 1800's. Two case histories show profits exceeding \$40,000 before a new, but proven, easy business takes advantage of the nostalgia and a trend.

CAR SALES, Report 268. You need to know anything about cars to do this. There are thousands of cars out there. You can get a car lot to sell cars for you. You can even leverage kid to work selling this. Of the won't want to share the profits.

DOG, Report 2178. Here's a hot anyone with minimum intelligence can do in his home and find a lucrative market. All you need is a few simple hand tools less than \$100 for materials. Case history shows one producer netting \$28,000 his year. The market is practically virgin for humorous and unusual product.

POP CORN, Report 298. Popcorn, not corn, cotton candy and snow cones the highest margin of profit of any food with a cost as little as 10%. Case history shows one producer netting \$20,000 his year. The market is practically virgin for small operators working only time.

ROSE FOR THE LADY, Report 118. This is the most unbelievable business that we've ever come across. A man in Montreal with a starting investment of \$100 is netting \$50,000 a year before taxes—and he works 3 hours a day maximum! Three other cases in California with \$200 investments are netting \$50,000 to \$60,000 per year. So simple anybody can do it in any city.

RENTAL PUBLISHING, Report 29. For as little as \$350 investment you can net from \$20,000 up simply by printing a listing of homes and apartments that are for rent in your city. These case histories, with one grossing over \$90,000. An easy absentee-owner business, and landlords will love you.

COMPUTER HANDWRITING ANALYSIS, Report 1128. No matter how corny or corny it sounds, we couldn't resist reporting on this unusual money-maker. No experience of any kind is needed, as little as \$800 in cash will start, with case histories showing \$22,000 to \$60,000 profit per year.

HAMBURGER IS KING, Report 258. The industry to start a unique hamburger stand for as little as \$800 and net \$20,000 annually. You could be next door to McDonald's and still do it — probably with more profit. No cooking skills are needed. This report will show you how to have the best-known hamburger stand in town.

ADULT BOOK STORE, Report 238. Starting investment is less than \$1,500 and the gross profit margin is 50%. The average store nets over \$2,000 per month. An easy, simple business to start and ideal for absentee ownership. All sources and details are covered including protecting your license.

WINDOW CLEANING, Report 228. An investment of less than \$50 can get you into this unusual business. There's practically no competition and the business requires no skill and little business knowledge. Two case histories reveal profits from \$3,000 to \$4,000 per month.

PIZZERIA, Report 1118. You don't need to be Italian or know how to cook. Proven recipes and complete instructions are included in this report. Easy to start — you can shoestring it for as little as \$600 and net better than \$20,000 annually. The food business is an easy place for those with short capital to make a bundle.

VOLUME B: Medium-Investment Reports

MAILORDER BUSINESS, Report 34. We'll tell you how to avoid the year airt, and how to make a bundle with three actual products, ads and complete instructions for an insured success. Also, how to find others on the internet, with their profitability practically guaranteed. This probably is the first time you will find the real truth written about the mailorder business. This field has more pitfalls and failures than any other enterprise. This report is a must for anyone considering taking a shot in this dangerous field.

BICYCLE SHOP, Report 28. The bicycle business is enjoying a boom the likes of which has never been seen before. The dealer's biggest problem is getting enough bikes. Bike rental operators get started for as little as \$1,800 and get their investment back in the first month. To start a bike shop you'll need about \$5,000 in cash. The profit margin is not the highest, but we found one store that grossed near \$90,000 in 1973.

PETS PAT, Report 112. Pet Shop. If you or your wife like animals, this is the business for you. The net profit percentage is one of the highest in retail sales, and you can start with as little as \$5,000 cash. We show annual net profits of \$50,000 to \$100,000 for absentee owners.

TOOL & EQUIPMENT RENTAL, Report 212. It is one of the fastest growing businesses around. Some stores are now experiencing a 20% increase in sales each year. We found one wholesaler of tools and equipment who will take you by the hand, teach you everything about the business, finance 75% of your inventory and fixtures and give you advice any time you need it — all for buying your inventory from him. And we couldn't beat his prices anywhere. \$15,000 to \$30,000 cash is required. Profit before taxes ranges from \$20,000 to \$70,000 for new operations. Step-by-step instructions included for those who want to start independently.

INSTANT PRINT SHOP, Report 23. Even though you see lots of instant printing shops around, few realize half of their potential. Where they are missing the boat is clearly outlined here with the case history of a retired Army Sergeant grossing \$122,000 his first year in business, and netting \$40,000. He had no printing experience, but realized how ignorant his competitors were. His total investment was less than \$5,000.

FURNITURE STORE, Report 22. A unique method of financing this store makes it highly profitable—an annual profit net of \$84,000 plus, from an investment as low as \$7,000. Many furniture stores are operated like this throughout the U.S., but plenty of room for more. Experienced personnel are plentiful and ready to show an absentee-owner the way to go.

PLANT SHOPS, Report 19. Take advantage of the booming interest in green plants with this business. We picked the most successful merchandiser around and described the unique process of selling plants. Very low start-up costs \$1,500 to \$7,000 should net \$40,000 to \$50,000 the first year following the formula outlined here—a good business for your wife.

TENNIS EQUIPMENT, Report 20. This is a high-flyer—a tennis club (like a golf club). The one that we report on nets \$235,000 before taxes. Investment, \$10,000 plus. They are new and unique and every city needs a half dozen or more.

CHEESE SHOP, Report 26. The nostalgia binge in this country has created a demand for old-fashioned foods—especially cheeses—far beyond the fondest dreams of the cheese and exotic food-shop owners. A Hickory Farms-type store is easy to open, easy to run, requires as little as \$8,000 cash and shows profits from \$40,000 to \$70,000 annually.

ATHLETIC FEET, Report 111. Even more amazing than it sounds, this is a report on a new chain of stores specializing in athletic footwear. The store we investigated grossed \$400,000 plus the first year with a net near \$100,000. Anyone who likes sports can run one of these easily. You'll need \$20,000 minimum for start-up costs.

NO SMOKING LIQUOR, Report 25. \$280,000 average annual profit on an investment as low as \$15,000. Thirty-six million Americans want to quit smoking. Clinics using "aversion therapy"—an extension of Pavlov's conditioned-reflex theory, make it easy. Our editor quit a two-pack-a-day habit with one hour of treatment, and had no desire for a cigarette at all or any withdrawal symptoms. You don't need to be a doctor, or have any medical background to open this clinic. We include all details plus an actual narrative of the therapy. Get in on the ground floor. The company that started it now has 11 clinics.

LIQUOR STORE, Report 29. The seemingly depression-proof liquor business is perfect for the person who wants large profits and minimum risks. Liquor stores show one of the lowest mortality rates of any retail business. We've investigated the sharpest, most profitable stores in the country to create a composite of the perfect store. Investment can be as low as \$5,000 in some states, although \$30,000 is a more realistic average figure. Profits range from a low of \$20,000 to highs of \$150,000, with the average being around \$40,000 annually. Complete details.

DIVE FOR A PEARL, Report 18. A unique new approach to merchandising brings immediate sales in this highly lucrative field. It doesn't require any jewelry experience, takes an initial investment of less than \$4,500, and produces an average net exceeding \$35,000 per store for the absentee owner.

If you are not pleased with these reports in any way, just send them back to me within 15 days, and I will refund all of your money immediately.

If you have any doubts about my integrity, refund policies or the quality of the reports, please have your local Better Business Bureau request a report on my part from the Los Angeles Better Business Bureau. I'm listed under *INSIDER'S REPORT*, and have never had a complaint nor want one.

By the way, we ship the reports to you within two working days after we receive your order. And, feel free to charge your purchase on your Master Charge or BankAmericard. Just jot your number on the order blank at the right.

Hoping I can help you with your endeavors, I remain

Sincerely,

John C. Revel
John C. Revel, Editor
INSIDER'S REPORT

P.S. Several months ago, I did a special report on what I believe to be the Hottest, Most Profitable Business for 1974. It's really a winner and lots of money can be made whether you have less than \$1,000 or \$20,000 to invest. This report is FREE to you when you order both Volumes A & B.

INSIDER'S REPORT

1445 Fifth Street
Santa Monica, Calif. 90401

PLEASE RUSH THE FOLLOWING TO ME:

VOLUME A, 12 low-investment reports for \$17.50 postpaid.

VOLUME B, 12 medium-investment reports for \$19.50 postpaid.

Send both Volumes A & B, for only \$29.50, which includes Bonus Report, "The Hottest, Most Profitable Business of 1974."

FOR OFFICE USE ONLY

RP AM BH EN NM AD
SL CL SH GRC

NAME (print) _____

ADDRESS _____

CITY _____

STATE _____ ZIP CODE _____

SIGNATURE X _____

My payment in full \$_____ is enclosed.

CHARGE IT TO MY: BankAmericard Master Charge No. _____

Use My Phone Your Order in ON CREDIT CARD OWNERS ONLY. Call Any Day, 213-451-5743 ext. 52.

Shaffer History to date

Shaffer Tool Works originated in Brea in 1923 when W. D. Shaffer opened a small machine shop for the primary purpose of doing oil field repair work. Soon Shaffer was manufacturing well heads and large needle valves (flow beans) for the oil fields. Excellent design and good workmanship established Shaffer products as outstanding, and the business started to grow.

In 1930 Shaffer Tool Works originated the first successful oilwell blowout preventer. Previous to this time, when a drilling well struck subterranean high pressures, the pressures blew out of the well, frequently destroying the derrick, taking human life, and wasting millions of barrels of oil. The Shaffer Control Gate largely eliminated this danger and made a blowout well a rarity. Shaffer Tool Works became world famous for this product.

As deeper wells were drilled and higher pressures encountered, Shaffer kept pace by improving their equipment and expanding their line.

The present head of the company, Donald U. Shaffer, became president of the company when W. D. Shaffer, his father, died in 1946. Since that time, the company has continued a steady rate of growth and expansion. Under Donald U. Shaffer, the company developed the highly successful "Hydraulic Gate", which utilizes hydraulic pressure to shut in a blowing-out well with the throwing of a lever.

The name "Shaffer" has become synonymous with the control of high pressure wells. Recently a foreign operator advised

Shaffer that for many years he had thought that the English word for "blowout preventer" was "Shaffer".

Currently Shaffer employs over 300 people and manufactures some 40 different pieces of oilfield equipment.

Shaffer products have world-wide distribution, and a significant portion of their business comes from foreign oil fields.

The main plant and offices are located in Brea, but in addition two other manufacturing plants are located in Santa Fe Springs and Taft, California. Twelve other sales offices are located throughout the United States, Mexico and Canada.

NOTES CULLED FROM GENE GREENWOOD'S "CRUDE", A COMPLETE HISTORY OF CALIFORNIA OIL".

UNION OIL CO formed in 1887 (A merger of 3 firms - Hardison & Stewart (company formed in 1883; first drilling in Pico Canyon area). Torrey Canyon Oil Co. Sespe Oil Co.

Oil discovered in Brea Canyon 189- by Ed Doheny.

PRODUCTION RECORDS OF SOUTHLAND WELLS:
(As of 1953)

			Produced to date ---	<u>Bbls</u>
<u>Signal Hill</u>	1553 acres	1242 producing wells		736,417,688
<u>Santa Fe Springs</u>	1410 "	604 " "		526,012,855
<u>Wilmington</u>	5460 "	2160 " "		440,360,540
<u>Huntington Beach</u>	3783 "	1333 " "		427,745,553
<u>Dominguez</u>	1425 "	368 " "		180,926,421

Genesis of Signal Hill:

Name supposedly originated with the Indians who called it Signal Hill because they could send out signals in all directions from its crest to a distance of 30 miles.

By 1918 it was producing the largest crop of cucumbers in the state.

Oil discovered in 1920 by Shell Oil Co.
First hole Alamitos No. 1

Genesis of Santa Fe Springs:

Oil discovered in 1921 by Union Oil.
First successful hole Bell No. 1

Genesis of Wilmington:

Oil discovered in 19 by Ranger Petroleum Corp.
First hole Watson 2

Genesis of Huntington Beach:

Oil discovered in 1920 by Standard Oil Co.
First hole Huntington A

FOR IMMEDIATE RELEASE

On December 11 the pouring of the first heat from one of a battery of electric furnaces climaxed a \$3,000,000 plant expansion program for the Steel Casting Co, a division of Shaffer Tool Works, Brea, California. Mr. Donald U. Shaffer, president of the world supplier of oilwell equipment, announced that following this first heat, the steel foundry is now on a daily schedule producing high quality alloy and carbon steel castings. The plant, located at the corner of Slauson Avenue and Downey Road in Vernon on a site recently acquired from American Brake Shoe Co, has undergone a major rebuilding program during the past several months and now incorporates the very latest foundry techniques and equipment. Castings weighing only one pound to those larger than five tons will be produced in this modern foundry considered to be one of the most efficient of its kind in the United States.

Released by SHAFFER TOOL WORKS
201 S. Brea Blvd.
Brea

Office of Frank J. Schweitzer, Jr.
12/22/64

(From the BREA STAR newspaper, March 13, 1922)

**\$50,000 PLANT TO BE
BUILT IN BREA**

Under the name of Brea Tool Works, W. J. Travers, F. J. Schweitzer, A. D. Yost and M. Burroughs of Brea are incorporating for \$50,000, a new company, the business of which will be located in their new building to be erected at once at Redwood Avenue and Olinda Boulevard. Mr. Travers, Superintendent of the Olinda Land Company is President of the organization; Mr. Schweitzer, who resigned as Superintendent of the Pacific Gas Company after serving eight years, and who also was formerly Superintendent of oil tool shops in Southern California fields for the West Coast, Olinda and Standard Oil Companies, will be General Manager; and Mr. Yost will be First Vice President.

The first unit of the building will be 40 x 80 and will be located on their property which is 150 x 160 feet, other units to be added as needed. The manufacture and repair of oil tools machinery in general will be handled by the Company - there will be included in the equipment three lathes, radial drill, planer, shaper, an 800 pound hammer, as well as smaller machinery. A blacksmith shop with equipment for smaller forging will be operated in connection with the shops.

COPY

SHAFFER PIONEERED WITH UNION OIL COMPANY

Dating back to the year 1900, the story of W. D. Shaffer, President of Shaffer Tool Works, closely follows that of the progress of the Petroleum Industry in California. In that year Mr. Shaffer started his oil tool experience in the shops of the Union Oil Company at Santa Paula, where old timers will remember "Ed" Double as Superintendent, and where Ben Younken and W. J. Travers were machinists and Frank Dinger was the blacksmith.

During the years that followed, Mr. Shaffer had progressed to the position of joint turner and worked along with Dick Smith (now associated with National Supply Company) at Baker Iron Works, then in various shops in the San Joaquin Valley and was for several years employed by Charles Victor Hall in Olinda as Superintendent of Shops.

From 1909 to 1917 Mr. Shaffer was President of the Santa Paula Garage and Machine Company at Santa Paula, leaving there to work with the Montebello Oil Company at Fillmore and the Oak Ridge Oil Company at Santa Paula; and in 1922 he acquired an interest in the Brea Tool Works. This company was sold to Baash-Ross Tool Company in 1923 but the land and buildings were resold to Mr. Shaffer, who established Shaffer Tool Works at Brea.

Since that date the efforts of Mr. Shaffer and his organization have been devoted to the development and perfecting of high pressure control equipment, landing heads, fishing tools and other specialties which are accepted internationally as the finest of their kind. Mr. Shaffer's experience over a period of 40 years justly entitles him to be termed a Pioneer, and the unquestioned merit of Shaffer Products warrants the title of Leadership in the development of oil well drilling tools and control equipment.

SHAFFER TOOL WORKS



OFFICE OF PRESIDENT
DONALD U. SHAFFER

Mr. Wm. D. Shaffer was a true pioneer in the oil tool business, literally working his way up from apprentice machinist to becoming the founder and owner of the Shaffer Tool Works of Brea, California.

After his marriage to Miss Edna Underwood in 1901 they lived in Bakersfield until moving to Olinda in 1903 where he became superintendent of the oil tool shop. In 1909 they moved to Santa Paula as oil activity was increasing in that area.

Coming to Brea in 1922, at the time of the Santa Fe and Signal Hill booms, he purchased from Baash-Ross the property at Birch and Redwood, formerly known as the Brea Tool Works. His original intention was to operate an oil field repair business with Service as a "Shaffer Specialty".

Mr. Shaffer's first patented tool was the Flow Bean. It was designed to accurately control and measure the flow of oil. As wells deepened and gas pressures increased he designed and patented a blow-out preventer under the trade name of "Control Gate". Extensive tests proved successful and soon Shaffer high pressure equipment was being used world wide. With the increased business it was necessary to enlarge the original shop and establish additional shops in various parts of the United States and Canada to maintain his reputation of Service.

Shaffer Tool Works was a totally owned family business, incorporated in 1938. With the deaths of Mr. and Mrs. Shaffer in 1946 their son, Donald U. Shaffer assumed the presidency of the company with daughters Mrs. Grant (Esther) Sandman and Mrs. Elvin (Betty) Wilson active in the business.

Shaffer Tool Works was sold to the Rucker Co. in 1968. In 1977 National Lead Industries bought the Rucker Co. The petroleum division has proved to be an important acquisition and the Shaffer name as "NL Shaffer" continues to serve the oil producing companies of the world.

Mr. and Mrs. Shaffer contributed much to the social and political life of Brea, both being active in club and church affairs. Both were members of the Order of the Eastern Star. She was a charter member of the Womans Club. The first official meeting of the club was held in her home.

Mr. Shaffer was Lions Club president in 1936-37 and was on the first Brea Olinda High School Board of Trustees, serving as mayor of Brea for 8 years and organist of Citrol Lodge N. 656, F & AM.

Their church and music were an important part of their lives. In 1930 they gave the Congregational Church an Estes Pipe Organ and dedicated it to the memory of their late son, George Wm. Shaffer. Mr. Shaffer was the organist until a short time before his death.

As they were partners in every facet of their 44 years of marriage they gave generously to their church and to other projects dear to their hearts. Mr. Shaffer preceded Mrs. Shaffer in death by only eight weeks.

Say not their work is done.
No deed of love or kindness dies
But in the life of others multiplies.
Say it has just begun.

FOUNDING OF THE COMPANY

Excerpts from History of Brea, California by Purl Harding

In 1922 a machine shop with location at the corner of Birch St. and Redwood Ave. was organized and incorporated under the name of the Brea Tool Works. The officers were Wm. J. Travers, Pres., Frank J. Schweitzer, Secy-Treas., A. D. Yost, 1st Vice-Pres., W. L. Burroughs, 2nd Vice-Pres. Other stockholders were J. F. Pendleton, J. H. Royer, Forrest Hurst and R. I. Jones.

In November 1922 Wm. D. Shaffer acquired the stock of the company owned by Wm. J. Travers and Mr. Shaffer succeeded Mr. Travers as Pres.

The company was in business for a little over a year when the Baash-Ross Tool Co., being urgently in need of machine tools for the manufacture of tool joints made the directors of the Brea Tool Works a tempting offer for their plant. They accepted the offer and the deal was closed and the Brea Tool Works discontinued business.

The Baash-Ross operated the plant until they had caught up with their extensive orders for tool joints when they removed the machine tools to their enlarged plant on Pomona Ave. and Shaffer purchased the building on Birch St. and Redwood Ave. and initiated the beginning of the Shaffer Tool Works, an account of which we will record in another paragraph. (119N)

From BREA STAR, Monday, March 13, 1922

\$50,000 PLANT TO BE BUILT IN BREA

Under the name of Brea Tool Works, W. J. Travers, F. J. Schweitzer, A. D. Yost and M. Burroughs of Brea are incorporating for \$50,000 a new company, the business of which will be located in their new building to be erected at once at Redwood Ave. and Olinda Blvd. Mr. Travers, Supt. of the Olinda Land Co. is Pres. of the organization. Mr. Schweitzer, who resigned as Supt. of the Pacific Gas Co. after serving 8 yrs, and who also was formerly Supt. of Oil Tool Shops in Southern California fields for the West Coast, Olinda and Standard Oil Companies, will be ^{general} manager and Mr. Yost will be 1st Vice-Pres.

The first unit of the building will be 40 x 80^{ft} and will be located on their property which is 150 x 160 feet; other units to be added as needed. The manufacture and repair of oil tools and machinery in general will be handled by the company and there will be included in the equipment 3 lathes, radial drill, planer, shaper, an 800 pound hammer, as well as smaller machinery. A blacksmith shop with equipment for smaller forging will be operated in connection with the shop.

In 1919 L. F. Baash and H. C. Ross started a small machine and repair shop in the bldg. on E. Ash St. formerly occupied by the Brea Machine Shop. Mr. Baash had developed a casing perforator and established himself with the help of Mr. Ross, in this building to build and service the casing perforator. Their success was immediate. Many new oilfields were discovered during this heyday of extensive drlg. with the new method of drlg. w/rotary tools. In 1921, having outgrown the small shop on E. Ash St. the Baash-Ross Tool Co. was incorporated and a large bldg. was erected on the property previously occupied by the Std. Oil fld. shops on the west side of N. Pomona, so. of the P.E. rlwy tracks (now site of Plant 2). The officers & stockholders were Lawrence F. Baash, Hans C. Ross, A. F. Brown and Hm. M. Dailey. Wm. E. Krupp was the secy-treas. They were fortunate in securing the mfg license on the Guiberson patented rotary tool joint and along with their other products, such as the Safety Joint, Hosmer Blowout Prev. H & W Slips, Hosmer Tbg Hd & a list of other oil field equip, they grew into one of the large oil tool mfrs of so. Calif. The L. F. Baash Perforating Co. had a shop alongside the tool co's shop in which they handled the perforating & csg cutter business as well as other fishing tools. It was in 1924 that the Baash-Ross Tool Co. withdrew from Brea & moved their establishment to 5512 S. Boyle Ave in Vernon.

From: History of Brea

Brief History of Shaffer Tool Works

First organized in 1922 under the name of Brea Tool Works, Shaffere Tool Works came into being in 1923 when Mr. W.D. Shaffer purchased the plant. At that time the company specialized in oil field repair work and manufactured a few well head items.

In 1927 when there were several large oil well fires in Santa Fe Springs, Mr. Shaffer created the Shaffer Control Gate to control the blowout of an oilwell and this item has become standard equipment throughout the world.

Fishing tools and other oilwell products were eventually developed and added to the company's line of sales until today Shaffer Tool Works is world famous in the oil industry.

Shaffer has kept abreast of the latest challenge to oil exploration, that of off-shore drilling, by developing specialized equipment solely for this purpose.

W.D. SHAFFER

Moved from Tacoma to Bakersfield and then to Maricopa as a machinist. Moved to Olinda in 1903 or 04 and became superintendent of machine shop of West Coast Oil Co. in Olinda. Moved to Santa Paula in 1908 where son Don was born. In 1922 came back to Brea and bought into Brea Tool Works which had been started in May 1922 at Birch and Hedwood but the company was purchased by Baash Perforating Co. in May. 1, 1923. They finished a contract for performing tools and sold the building to W.D. Shaffer in the fall of 1923 who started Shaffer Tool Works,

Married Edna Underwood in 1901 ^{in Santa Paula} having 4 children, George who passed away early in life, Esther, Don and Betty.

Company made casing landing heads, tubing heads and developed a flow bean for control of flow of oil and gas. After a visit to a well blowout in Santa Fe Springs Shaffer devised a valve, or control gate, by sketching the design out on the floor with a piece of chalk and from this early beginning developed into a leader in oilwell control equipment.

Shaffer was elected to the city council in 1936 and appointed mayor until his resignation in 1944. Son Don served on the council for years 19 47 & 1948.

W.D. Shaffer passed away in fall of 1946 followed by the passing of his wife two months later.

Rocker - 1968

W.D. Shaffer, founder, passed away in 1946 and Donald U. Shaffer became president and has headed the company since through its rapid growth.

Brea is the main plant with 15 branches in the U.S.A.; California - Avenal, Bakersfield, Rio Vista, Santa Fe Springs, Taft, Ventura. Denver, Colorado: Houma, Louisiana; Farmington, New Mexico: Williston, North Dakota: Oklahoma City, Oklahoma: Beaumont, Houston & Odessa, Texas; Vernal, Utah; Casper, Wyoming; There is an export office in New York City, a representative in Soldotna, Alaska and two subsidiaries, Shaffer Western Hemisphere, Inc. in Canada and Shaffer de Mexico in Mexico City.

In 1958 they acquired the Los Angeles Steel Casting Co. which had been a main supplier of steel castings to help round out their source of material supply. Earlier this year they acquired the Beaumont Iron Works of Beaumont, Texas to provide manufacturing facilities in the Gulf Coast area which has a great oil recovery potential in the Gulf of Mexico.

The company has ^{agricultural} ~~XXXXXX~~ holdings both in Arizona and Nevada which are ~~being~~ in the process of being improved.

Shaffer Tool Works has always been civic minded doing everything it can for the city and its residents. Mr. W.D. Shaffer was mayor from 1936 to 1944 and played a major role in obtaining Metropolitan water for the city. Donald U. Shaffer also served the city well by acting as a councilman for several years. The company looks toward the orderly growth of the city and will do everything it can to help/

Oil was discovered over 100 years ago in Pennsylvania and since then it has become a major industry. Up until lately most of the wells have been drilled on land. Now the supply of oil under dry land have been discovered so exploration has turned to deposits under the oceans. It is estimated that more reserves lie under these than have been found under dry land. Shaffer Tool Works have done a lot of research in under sea drilling procedures, developing methods and tools for this type of operations, and are one of the pioneers in this line.

A recent addition to the company has been the acquisition in 1962 of Beaumont Division of Alco Products, Inc. in Beaumont, Texas which has been closely identified with the oil industry for over a half-century. It is a fully integrated manufacturing plant complementing the widely known Shaffer line of drilling and producing equipment and increasing the company's productive capacity in the strategic Gulf Coast and Mid-Continent area..

In 1966 Shaffer acquired the Offenhauser-Bayport Plant in Bayport Texas Texas an important fabricator of huge vessels and towers for the refinery, chemical and petro-chemical industries. This plant is of the most modern construction and features extraordinary facilities for working with special-purpose metals, as well as with stainless steel, monel and aluminum.

As a source for their large demand for steel castings, Shaffer obtained Steel Casting Company of Los Angeles in 1960 and ~~XXXXXXXXXXXXXX~~^{have} built it up to one of the largest suppliers of steel castings in the Southwestern United States.

In the ~~xxxx~~ 44 years of Shaffer Tool Works existence the number of its employees have increased to over 1000 many of them in their home plant of Brea.

Equipment for Sub-Sea Drilling has been developed for the industry as they seek oil and gas under submerged lands.

BREA- Shaffer Tool Works originated in Brea in 1923 when W.D. Shaffer opened a small machine shop for the purpose of doing repair work for the oil fields in the surrounding area. Soon Shaffer was manufacturing well heads and large needle valves (flow beans) for the oil industry and the excellent design and good workmanship established Shaffer products as outstanding and the business started to grow.

In 1930 Shaffer originated the first successful oil well blowout preventer. Previous to this time, when a drilling well struck subterranean high pressures the pressures blew out the well, frequently destroying the derrick, taking human life and wasting millions of barrels of oil and depleting the gas reservoir. The Shaffer Control Gate, as it was then called, largely eliminated this danger and made blowouts a rarity. Shaffer became world famous for this product.

As deeper wells were drilled and higher pressures encountered, Shaffer kept pace by improving its equipment and expanding the line.

The present head of the company, Donald U. Shaffer, became president when W.D. Shaffer, his father, died in 1946. Under Donald Shaffer, the company has continued a steady rate of growth and expansion and he was instrumental in developing the highly successful and world leading "Hydraulic Blowout Preventer", which utilizes hydraulic pressure to shut in the well.

NAME WORLD KNOWN

The name "Shaffer" is known throughout the world and has become synonymous with the control of high pressure wells. A foreign operator for many years thought that the English word for "blowout preventers" was "Shaffer". Realizing that great amounts of oil and gas still remain in the earth under submerged lands, Shaffer pioneered equipment for sub-sea drilling which is entirely different than for land drilling.

Shaffer products have world-wide distribution and a significant portion of the firm's business comes from foreign oil fields.

The main plant and offices are located in Brea but two additional plants, Santa Fe Springs and Taft, along with several other sales offices are located in California. Additional plants and sales offices are located throughout the United States, Mexico and Canada and sales representatives are scattered throughout the world.

To better serve the mid-continent area an addition to the company came with the acquisition in 1962 of Beaumont Division of Alco Products, Inc. in Beaumont, Texas which has been closely identified with the oil industry for over a half-century. It is a fully integrated manufacturing plant

complementing the widely known Shaffer line of drilling and producing equipment and increasing the company's productive capacity in the strategic Gulf Coast and mid-continent area.

In 1966 Shaffer acquired the Offenhauser-Bayport Plant in Bayport, Texas an important fabricator of high vessels and towers for the refinery, chemical and petro-chemical industries. This plant is of the most modern construction and features extraordinary facilities for working with special-purpose metals as well as with stainless steel, monel and aluminum.

As a source for their large demand for steel castings, Shaffer obtained Steel Casting Company of Los Angeles in 1960 and have built it into one of the largest suppliers of steel castings in the Southwestern United States.

In the 45 years of Shaffer Tool Works existence the number of its employees has increased to approximately 1000, many of them in the home plant in Brea.

BREA- Shaffer Tool Works originated in Brea in 1923 when W.D. Shaffer opened a small machine shop for the purpose of doing repair work for the oil fields in the surrounding area. Soon Shaffer was manufacturing well heads and large needle valves (flow beans) for the oil industry and the excellent design and good workmanship established Shaffer products as outstanding and the business started to grow.

In 1930 Shaffer originated the first successful oil well blowout preventer. Previous to this time, when a drilling well struck subterranean high pressures the pressures blew out the well, frequently destroying the derrick, taking human life and wasting millions of barrels of oil and depleting the gas reservoir. The Shaffer Control Gate, as it was then called, largely eliminated this danger and made blowouts a rarity. Shaffer became world famous for this product.

As deeper wells were drilled and higher pressures encountered, Shaffer kept pace by improving its equipment and expanding the line.

The present head of the company, Donald U. Shaffer, became president when W.D. Shaffer, his father, died in 1946. Under Donald Shaffer, the company has continued a steady rate of growth and expansion and he was instrumental in developing the highly successful and world leading "Hydraulic Blowout Preventer", which utilizes hydraulic pressure to shut in the well.

NAME WORLD KNOWN

The name "Shaffer" is known throughout the world and has become synonymous with the control of high pressure wells. A foreign operator for many years thought that the English word for "blowout preventers" was "Shaffer". Realizing that great amounts of oil and gas still remain in the earth under submerged lands, Shaffer pioneered equipment for sub-sea drilling which is entirely different than for land drilling.

Shaffer products have world-wide distribution and a significant portion of the firm's business comes from foreign oil fields.

The main plant and offices are located in Brea but two additional plants, Santa Fe Springs and Taft, along with several other sales offices are located in California. Additional plants and sales offices are located throughout the United States, Mexico and Canada and sales representatives are scattered throughout the world.

To better serve the mid-continent area an addition to the company came with the acquisition in 1962 of Beaumont Division of Alco Products, Inc. in Beaumont, Texas which has been closely identified with the oil industry for over a half-century. It is a fully integrated manufacturing plant

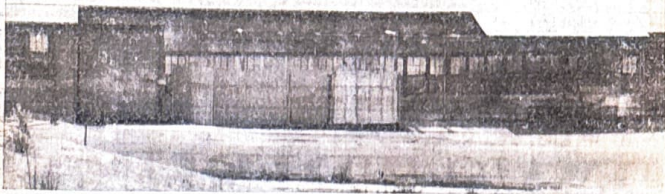
complementing the widely known Shaffer line of drilling and producing equipment and increasing the company's productive capacity in the strategic Gulf Coast and mid-continent area.

In 1966 Shaffer acquired the Offenhauser-Bayport Plant in Bayport, Texas an important fabricator of high vessels and towers for the refinery, chemical and petro-chemical industries. This plant is of the most modern construction and features extraordinary facilities for working with special-purpose metals as well as with stainless steel, monel and aluminum.

As a source for their large demand for steel castings, Shaffer obtained Steel Casting Company of Los Angeles in 1960 and have built it into one of the largest suppliers of steel castings in the Southwestern United States.

In the 45 years of Shaffer Tool Works existence the number of its employees has increased to approximately 1000, many of them in the home plant in Brea.

SHAFFER TOOL WORKS



SOON WILL BE SHAFCO INDUSTRIES, INC.

OLD BREA COMPANY

Shaffer Tool Plant Will Reopen Soon

Photos and Story

By DAVE JOHNSON
News Tribune Writer

BREA — The old Shaffer Tool Company plant, 201 S. Redwood, will be bought back from Rucker-PHI by the son of the business' founder, Donald Shaffer, it was revealed Friday after Shaffer got court approval to clear escrow.

Operations at the plant, which is one of Brea's first industries, were suspended several weeks ago, but Shafco Industries, Inc., an equipment rental agency owned by Shaffer, plans to move in the middle of this month, Shaffer said.

Shafco is a firm with locations throughout the west coast, the nearest facility being at 8182 E. Commonwealth, Buena Park.

When the Shaffer plant reopens, there will be about 15 employes, Shaffer said, but in the future there could be as many as 100 employed in Brea. Shaffer added that the facility will be used as a warehouse for maintenance, sales and service of rental equipment.

Equipment of operation of the Brea facility will be moved from their Santa Fe Springs plant, Shaffer said, but operations in that facility will continue, he added.

The property is reportedly in a residential zone (R31) and operations there cannot stop for more than six months without Shaffer losing industrial privileges in that area. The privileges were granted because the plant was in operation before the present zoning.

TURN OF THE CENTURY

W.D. Shaffer, the company's founder, moved from Tacoma to Bakersfield and then to Maricopa as a machinist. In 1903 he moved to Olinda and became superintendent of the machine shop of West Coast Oil

Company.

In 1908 he moved to Santa Paula where his son Don was born. Returning to Brea and he joined Brea Tool Works in 1922. The tool works started in May 1922 at Birch and Redwood, but the company was purchased by Baash Perforating Company on May 1, 1923.

Baash finished a contract for perforating tools and sold the building to W.D. Shaffer in the fall of 1923. This was the beginning of Shaffer Tool Works.

Shaffer was married in 1901 in Santa Paula to Edna Underwood and had four children: George, who died early in life, Esther, Don and Betty. Shaffer's home was what is now Viv's Rest Home, 406 W. Imperial Highway.

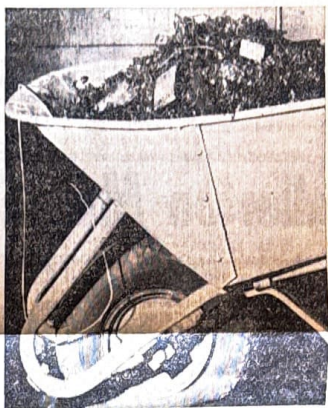
Primarily the company served the area as an oil field repair shop. Typical of the oil field repair shops of that day, machinery and equipment for this type work consisted of a few lathes, drill presses, milling machines, shapers and a welding shop.

Other shops located in Brea at the time were, the Union Tool Company (now known as the National Supply Company), Specialty Oil Tool Company, Chiksan Company, Duro Engineering, Brea Boiler Works and Baash Toss Tool Company.

EARLY DIVERSIFICATION

In the beginning, Shaffer intended to continue oil field repair work and to supplement this type of work with a few manufactured oil field specialty tools. The first manufactured item consisted of a line of well head equipment suitable for the wells and pressures of that time. He also conceived the idea of an adjustable choke or needle valve to regulate the flow of oil and gas.

Prior to this development, wells were allowed to flow



ALL THAT REMAINS IN EMPTY BUILDINGS

to their maximum capacity and if a restriction was required, the operator merely installed a choke in the "Christmas tree" drilling assembly.

The choke that Shaffer invented, called the adjustable flow bean, is used throughout the world today.

In 1927, there were several costly and disastrous blowouts in the Santa Fe Springs oil field. Shaffer observed that the drilling crews were almost helpless to prevent these blowouts since they generally occurred while drill pipe was in the hole, so he conceived the idea of a ram-type packing element which would seal around the drill pipe and close the annulus between the casing and the pipe. Thus was created the Shaffer Cellar Control Gate which is now standard equipment on a majority of the drilling wells throughout the oil world.

Shaffer was elected to the city council in 1936 and appointed mayor until his resignation in 1944. He died in the fall of 1946, followed by his wife two months later.

Upon Shaffer's death, his son, Donald U. Shaffer, became president and has headed the company since then.

The main plant in Brea grew with 15 branches in the U.S.: Avenal, Bakersfield, Rio Vista, Santa Fe Springs, Taft and Ventura, Calif.; Denver; Houma, La.; Farmington, N.M.; Williston, N. D.; Oklahoma City; Beaumont, Huston and Odessa, Texas; Vernal, Utah; and Casper, Wyo.

There was an export office in New York City, a representative in Soldotna, Alaska, and two subsidiaries, Shaffer Western Hemisphere, Inc., in Canada and Shaffer de Mexico in Mexico City.

In 1958 the company acquired the Los Angeles Steel Casting Company, which had been a main supplier of steel castings, and Beaumont Iron Works in Texas. The company has agricultural holdings in Arizona and Nevada.

In 1947-48 Don Shaffer served on the city council.

Shaffer also had developed equipment for the industry for subsea drilling as oil and gas are sought under submerged lands.

The Rucker Company, whose headquarters are in Oakland, took over the old factory on Redwood when that firm merged with Shaffer Tool more than a year ago.

Rucker just ceased operation at the old plant, moving Shaffer equipment to the new Rucker plant on Berry Street.

"We're still one of Rucker's best customers, and we hope to be a real asset to the city of Brea," Shaffer said.



WORKER REMOVES EQUIPMENT

Drug Ring Police Target

The others arrested since Saturday were involved in indictments brought to light as more than 200 officers searched for those named in indictments.

In addition to the arrests, authorities reported this morning that more than \$30,000 in cash and drugs valued at more than \$1 million have been confiscated since the operation began Saturday.

Arrests and seizure of contraband have taken place in the California counties as well as in Hawaii and Oregon.

officials reported this morning.

Saturday when Orange County District Attorney Cecil Hicks announced the grand jury's action, he said copies of the secret indictments would be made public today when, it was believed, most of those charged would be in custody.

However, unless an early announcement of additional arrests is forthcoming today, it is not expected the indictments will be made public.

Saturday, Hicks' charged

Leary with "being responsible for the destruction of more lives than any man alive" as he traced the growth of the brotherhood of eternal love.

It is, according to Hicks, a clandestine religious cult dedicated to drug distribution throughout the world.

Leary himself has been a fugitive from the law since escaping from a California prison camp in 1970.

He is living in Switzerland. Authorities there have given him until Oct. 31 to find a new home.

Among those named in the grand jury indictments is the person Hicks said is "the number one boy" in the brotherhood.

Since authorities began an intensive investigation of the brotherhood slightly more than a year ago, more than \$7 million worth of drugs have been seized in arrests already made in connection with the organization, Hicks claimed.

Five of those indicted are

See "DRUG RING"
(Page A-6, Column 1)

NEWS TRIBUNE

Northern Orange County's Interesting Newspaper

AUGUST 7, 1972

22 PAGES, 2 PARTS

PRICE TEN CENTS

Demos Back Shriver

the McGovern ticket after several years had turned it down, spent the day at his suburban estate in Rockville, Md., cordily working on his acceptance speech.

Mrs. Westwood said she believed it was "personal and other considerations"

that caused Sens. Kennedy and Edmund S. Muskie and several others to turn down McGovern's offer to be his running mate—not pessimism about their chances of defeating President Nixon in November.

After the delegate challenges are dis-

posed of, the 303-member committee proceeds Tuesday with what will amount to a miniature national convention. Committee members will cast the same number of delegate votes their states had at last month's Miami convention which nominated McGovern and Eagleton.

Fullerton Man Stabbed, Killed

By RAY RHODS
News Tribune Writer

FULLERTON — A young Fullerton man has been stabbed to death in his apartment, according to police who said the killing took place at least three days ago.

Harold F. Hamblek, 21, of 2700 Associated Road, Apt. C-47, was found by police after his parents notified them that something had happened.

The victim was stabbed six times in the chest and once in the neck, according to police. They said the body was found on the living room floor.

Hamblek was born in Austria and is a U.S. citizen. He was raised in Anaheim and was graduated from Anaheim High School.

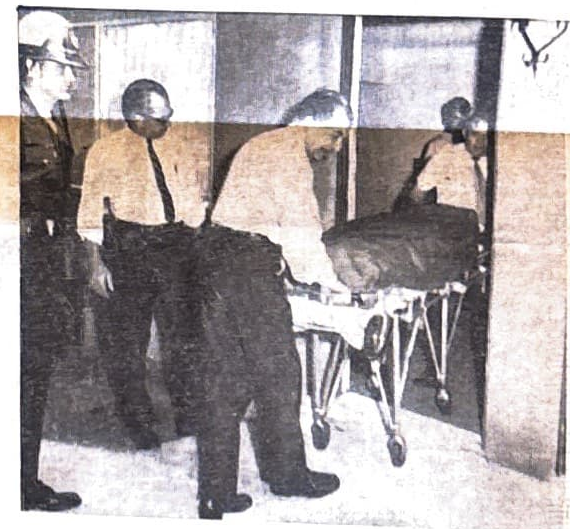
Police said a quantity of marijuana and heroin was found in the apartment, along with paraphernalia associated with use of the drugs.

The murdered man's mother, Helen Wegner, lives in Placentia. She said the victim worked in the City of Commerce electronics.

He lived alone in the small apartment, which he rented June 16.

Police said the man had been dead in the closed apartment for at least three days when found by the parents Sunday morning.

The autopsy showed that the man had been stabbed through the heart. No weapon was found at the scene, police said.



News Tribune Photo by Jess Andresen Jr.

VICTIM'S BODY REMOVED

Fullerton 21-Year-Old Stabbed to Death

Dead in One-Car County Accident

most ripped the 1970 model in half and that two of the victims were ejected by the force of the crash.

They reported the car was traveling north of Knott Avenue near Stanford Street when it went into the skid at about 11:45 p.m.

Dead at the scene were Bobbi Ann Essex, 19, of 333 S. Grand, Anaheim, and the car's driver Pvt. James Hatchell, 21, of Thousand Oaks.

Pvt. James Harold Wright, 22, whose residence address was given as 7369 Santa Elice St., Buena Park, died a short time after being taken to West-

minister Community Hospital.

In Orange, Sunday afternoon, a 10-year-old girl died when, according to witnesses, she ran in front of a car while hurrying to a neighborhood store.

Valerie Douglas, 140 W. Wilson St., Apt. R, was dead on arrival at St. Joseph's Hospital, Orange, after being struck by a car on Glassel Street, just south of Quincy Avenue.

Witnesses told police the child dashed into the street from a driveway at the rear of the apartment complex where she lived.

Investigating officers were told the

car's driver, Mrs. Thelma Lee, 25, of 547 N. Clark St., Orange, had no chance of stopping in time to avoid striking the child.

The fifth fatality Sunday occurred in Huntington Beach where a car driven by a 72-year-old man crashed into a tree.

Lynn Lewis, 801 13th Street, Huntington Beach, died less than two hours after the car he was driving hit the tree on Main Street south of Clay Avenue.

Lewis was taken to Pacifica Hospital following the accident. He died in the intensive care unit at the hospital, police said.

SHAFFER

PIPE

La Habra Star & Brea Progress C-5

Shaffer Owes Fame to Well Control Gate

Drills Bring Black from Bottom of Ocean

BREA—Shaffer Tool Works originated in Brea in 1923 when W. D. Shaffer opened a small machine shop for the primary purpose of doing oil field repair work. Soon Shaffer was manufacturing well heads and large needle valves (flow beans) for the oil fields. Excellent design and good workmanship established Shaffer products as outstanding and the business started to grow.

In 1930 Shaffer Tool Works originated the first successful oil well blowout preventer. Previous to this time, when a drilling well struck subterranean high pressures the pressures blew out of the well, frequently destroying the derrick, taking human life, and wasting millions of barrels of oil. The Shaffer Control Gate largely eliminated this danger and made a blowout well a rarity. Shaffer Tool Works became world famous for this product.

As deeper wells were drilled and higher pressures encountered, Shaffer kept pace by improving its equipment and expanding the line.

The present head of the company, Donald U. Shaffer, became president of the company when W. D. Shaffer, his father, died in 1946. Since that time,

important projects during World War II and in the Korean War. In the years past they have worked on both military and industrial components and equipment and have given America world leadership.

The Shaffer name is famous in the oil industry. First organized in March 1922, by William J. Travers, Frank Schweitzer Sr., A. D. Yost and M. Burroughs, under the name of the Brea Tool Works the history of Shaffer Tool Works is packed full of action.

Primarily the company served the area as an oilfield repair shop. Typical of the oil field repair shops of that day, it had the machinery and equipment that consisted of lathes drill press, milling machine, self-locking fasteners,

are located in Brea but, in addition, two other manufacturing plants are located in Santa Fe Springs and Taft, Calif. Sales offices are located throughout the United States, Mexico and Canada and representatives are scattered throughout the world.

PLANT ACQUIRED

An addition to the company came with acquisition in 1962 of Beaumont Division of Alco Products, Inc. in Beaumont, Tex. which has been closely identified with the oil industry for over a half-century. It is a fully integrated manufacturing plant complementing the widely known Shaffer line of drilling and producing equipment increasing the company's productive capacity in the strategic Gulf Coast and mid-continent area.

In 1966 Shaffer acquired the Hausher-Bayport Plant in Port Texas an important indicator of huge vessels and rigs for the refinery, chemical and petro-chemical industries. This plant is of the most modern construction and features extraordinary facilities for

double gate which combined two ram type preventors in one unit; one for complete closure and one to close on drill pipe or tubing.

In 1934 Shaffer was able to produce 6,000-pound test double gates in all nominal sizes and with the introduction of "slim hole" drilling practices, the Shaffer double gates became standard equipment on most drilling wells.

In 1938 Shaffer introduced the hydraulic double gates which utilized the piston and sealing element with a hydraulic operating mechanism.

Among Shaffer acquisitions is Los Angeles Steel Casting and the American Brake Block operating the largest steel casting plant in the West. Shaffer also has a plant in

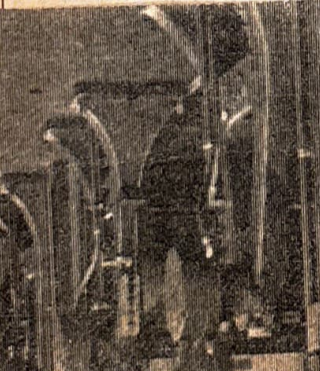
a manufacturing program particularly designed to supply Canadian needs has been set up.

Shaffer is operating the Alco plant in Beaumont Texas and the most recent acquisition of Shaffer is the Offshore Division in Texas.

working with special-purpose metals, as well as with stainless steel, monel and aluminum. As a source for their large demand for steel castings, Shaffer obtained Steel Casting Company of Los Angeles in 1960 and have built it up to one of

the largest suppliers of steel castings in the Southwestern United States. In the 45 years of Shaffer Tool Works existence the number of its employes has increased to over 1,000 many of them in the home plant of Brea.

APPROX. 45 YEARS
MATER
Ly



Coke's inlet in Alaska.

In years to come, it is predicted, the greatest volume of oil will be obtained from sub-sea operations.

Keeping U.S. in the vanguard is typical with Shaffer workers. They worked on im-

head equipment suitable for the wells and built for the pressures of that time. He also conceived the idea of an adjustable choke or needle valve to regulate the flow of oil and gas.

In 1934 Shaffer developed the

order to shop fa-
con-
mpany
equip-
what
chased
joined
venture,
industry
point
too
sump-
the
s un-
Tool
attend-
repair
is ef-
manu-
cially
ured
well

SHAFFER

PIPE

Shaffer Drills Bring Black Gold From Bottom of Ocean

The rapidly expanding Shaffer Tool Works, one of Brea's pioneer industries, is helping to keep America strong in the air and underseas.

Drilling and production equipment manufactured by Shaffer Tool Works is bringing millions of gallons of oil from under the sea and new developments are expected to provide enough petroleum from once remote and difficult to reach places to keep and provide a perpetual supply of "black gold."

At the same time Brea employees of the Shaffer Tool Works are playing an important part in the missile program. They help produce the trap doors, through which the aerial projectiles are released into space. They are also working in the underground pressure project now in the experimental stages on the salt flats.

For more than a decade Shaffer has been active in pioneering new equipment, improved procedures and up-to-minute efficiencies in sub-sea drilling and production techniques. Today Brea-built equipment is being used in almost every part of the world where there is oil under the sea that can be reached. Shaffer's basic sub-sea equipment and procedures are being adapted to many varied operational problems in various parts of the world.

The largest sub-sea operations today are off the California Coast, but there are many others that are producing large quantities of oil and others which have a big potential. What is expected to be one of the greatest sub-sea oil operations is in the Gulf of Mexico, off the Isle de Lobos. Shaffer-built under seas drills are also operating in the Arabian Gulf, in the North Sea, in the Red Sea, off Holland, off Alaska, off Borneo, off Peru, and off Nigeria and in Cooke's inlet in Alaska.

In years to come, it is predicted, the greatest volume of oil will be obtained from sub-sea operations.

Keeping U.S. in the vanguard is typical with Shaffer workers. They worked on im-

portant projects during World War II and in the Korean War. In the years past they have worked on both military and industrial components and equipment and have given America world leadership.

The Shaffer name is famous in the oil industry. First organized in March 1922, by William J. Travers, Frank Schweitzer Sr., A. D. Yost and M. Burroughs, under the name of the Brea Tool Works the history of Shaffer Tool Works is packed full of action.

Primarily the company served the area as an oilfield-repair shop. Typical of the oil field repair shops of that day, it had the machinery and equipment that consisted of lathes drill press, milling machine, shaper and welding tools.

W.D. Shaffer bought an interest in the Brea Tool Works in the Fall of 1922. A few months later the company and its assets were sold to Baash Tool Company. This firm had received an exceptional large order from the Amtorg Trading Post, a Russian purchasing company, and in order to fill the order, larger shop facilities were needed.

After completing the contract the Baash-Ross Company moved most of their equipment out of Brea and what was left behind was purchased by Shaffer.

None of the partners joined Shaffer in the new venture, believing that the oil industry reached its saturation point and there was already too much oil for normal consumption. Shaffer operated the company for many years under the name of Shaffer Tool Works as its full owner.

At the start Shaffer intended to continue oil field repair work and supplement this effort by supplying a few manufactured oil field specialty tools. The first manufactured items consisted of a line of well head equipment suitable for the wells and built for the pressures of that time. He also conceived the idea of an adjustable choke or needle valve to regulate the flow of oil and gas.

In 1934 Shaffer developed the

double gate which combined two ram type preventors in one unit; one for complete closure and one to close on drill pipe or tubing.

In 1934 Shaffer was able to produce 6,000-pound test double gates in all nominal sizes and with the introduction of "slim hole" drilling practices, the Shaffer double gates became standard equipment on most drilling wells.

In 1938 Shaffer introduced the hydraulic double gates which utilized the piston and sealing element with a hydraulic operating mechanism.

Among Shaffer acquisitions is Los Angeles Steel Casting and the American Brake Block, operating the largest steel casting plant in the West. Shaffer also has a plant in Mexico and is expanding its operations in Edmuntion where

a manufacturing program particularly designed to supply Canadian needs has been set up.

Shaffer is operating the Alco plant in Edmuntion, Texas and the most recent acquisition of Shaffer is the Offenhauer Co.'s Industrial Division plant in Bayport, Texas.

PROVIDE

STEEL

TO DEVELOP

EDMONTON

(A) During the last few years equipment has been made to withstand the extremely high pressures, to 22,500 pounds, that are encountered today as wells are drilled deeper and deeper.

In 1938 Shaffer introduced their hydraulic blow-out preventers which utilized the proven and sealing element with a hydraulic operating mechanism and it is still considered the outstanding drilling control equipment obtainable.

(C) A recent addition to the company has been the acquisition in 1962 of Beaumont Division of Alco Products, Inc. in Beaumont, Texas which has been closely identified with the oil industry for over a half-century. It is a fully integrated manufacturing plant complementing the widely known Shaffer line of drilling and producing equipment and increasing the company's productive capacity in the strategic Gulf Coast and Mid-Continent area.

In 1966 Shaffer acquired the Offenhauser-Bayport Plant in Bayport, Texas an important fabricator of huge vessels and towers for the refinery, chemical and petro-chemical industries. This plant is of the most modern construction and features extraordinary facilities for working with special-purpose metals, as well as with stainless steel, monel and aluminum.

In the 44 years of Shaffer Tool Works existence the number of its employees have increased to over 1600, many of them in its home plant in Brea.

NORTHERN ORANGE COUNTY'S INTERESTING NEWSPAPER

DAILY NEWS TRIBUNE



FULLERTON, CALIFORNIA

HOWARD GOESSLING
DISPLAY ADVERTISING

655 W. VALENCIA DRIVE
PHONE TROJAN 1-2345

Shaffer Name Known Well in Oil Industry

BREA — Shaffer Tool Works originated in Brea in 1923 when W. D. Shaffer opened a small machine shop for doing repair work for the oil fields in the area. Soon Shaffer was manufacturing well heads and large needle valves (flow beans) for the oil industry. Soon the excellent design and workmanship established Shaffer products as outstanding and the business started to grow.

In 1930 Shaffer originated the first successful oil well blowout preventer. Previous to this time, when a drilling well struck subterranean high pressures the pressures blew out the well, frequently destroying the derrick, taking human life and wasting millions of barrels of oil and depleting the gas reservoir. The Shaffer Control Gate, as it was then called, largely eliminated this danger and made blowouts a rarity, became world famous for this product.

The present head of the company, Donald U. Shaffer, became president when W. D. Shaffer, his father, died in 1946. Under Donald Shaffer, the company has continued a steady rate of growth and expansion and he was instrumental in developing the highly successful and world leading "Hydraulic Blowout Preventer," which utilizes hydraulic pressure to shut in the well.

WORLD KNOWN

The name "Shaffer" is known throughout the world and has become synonymous with the control of high pressure wells. A foreign operator for many years thought that the English word for "blowout preventers" was "Shaffer." Realizing that great amounts of oil and gas still remain in the earth under submerged lands, Shaffer pioneered equipment for sub-sea drilling which is entirely different than land drilling.

Shaffer products have world-wide distribution and a significant portion of the firm's business comes from foreign oil fields.

The main plant and offices are located in Brea but two additional plants, Santa Fe Springs and Taft along with several other sales offices are located in California. Additional plants and sales offices are located throughout the United States, Mexico and Canada and sales representatives are scattered throughout the world.

ADDITION TOLD

To better serve the mid-continent area an addition to the company came with the acquisition in 1962 of Beaumont Division of Alco Products Inc. in Beaumont, Tex. which has been closely identified with the oil industry for over a half-century.

In 1966 Shaffer acquired the Offenhauser-Bayport Plant in Bayport, Tex.

As a source for their large demand for steel castings, Shaffer obtained Steel Casting Co. of Los Angeles in 1960, and have built it into one of the largest suppliers of steel castings in the Southwestern United States.

In the 45 years of Shaffer Tool Works existence the number of its employes has increased to approximately 1,000, many of them in the home plant in Brea.