



shellegram

SHELL OIL COMPANY • SHELL CHEMICAL COMPANY
HOUSTON REFINERY • HOUSTON PLANT

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HOUSTON, TEXAS

OCTOBER, 1960

Refinery Employees Top UF Goal

The record is there for all to see. Shell Refinery employees answered the urgent call for United Fund dollars. The response came in the action of people who care for the welfare of their fellow man.

Though the final tabulation is not complete—it will be reported in next month's SHELLEGRAM—the figure has topped the \$32,000 mark. This is the highest contribution yet by local employees who have established a proud tradition of not only meeting but beating their United Fund goal.

The quota this year was \$31,288, a goal greater than any amount ever collected here in a UF drive. The hill looked steep, but it made the results even more gratifying.

Commenting on the wonderful response by employees, Refinery Manager J. A. Tench said, "... it is heartening to

be assured once again that the Shell folk throughout the Refinery are always ready to support our community in their annual charity effort and can be relied upon to do so generously."

Campaign Co-chairmen B. L. White and L. J. Lambin echoed these sentiments for the entire United Fund committee.

A well-planned and coordinated effort during a concentrated three-day period from October 4 through October 6 assured the success of the drive. With their headquarters in the P. & I. R. Training Conference Room, the UF committee received pledge cards and cash from the steady stream of solicitors as they returned from all parts of the Refinery.

An army of over 100 of these volunteer workers went about the systematic task of contacting each employee personally to seek a contribution.

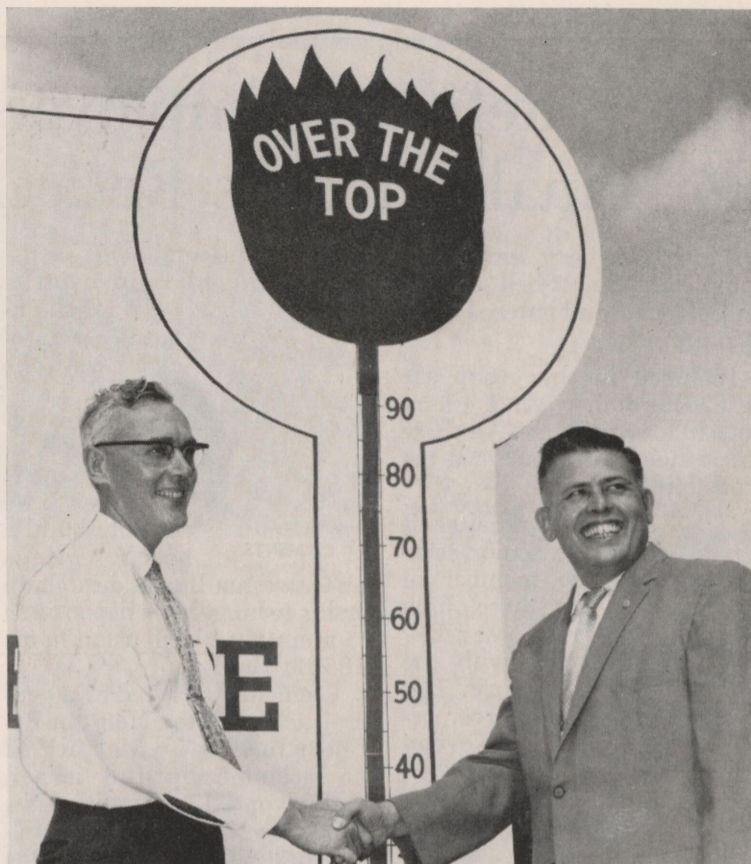
The progress of the drive was plotted for all employees with regular up-to-the-minute bulletin board announcements.

Many departments compiled unusually good records in this drive. The Technological De-

See UF DRIVE, Page 2

Congratulations

The SHELLEGRAM joins with management and with representatives of Local 4-367, Oil, Chemical and Atomic Workers to congratulate each employee for their part in helping make this our most successful United Fund drive to date. This response will be reflected in the services the various UF agencies can make available for the less fortunate citizens of Harris County in the coming year. We can take pride in a job well done.



UNITED FUND Co-chairmen L. J. Lambin and B. L. White shake hands in front of the large sign which proclaims the Refinery "Over the Top" in this year's drive.

United Fund Contributions Reach All-Time High At Chemical Plant

Total contributions at the Chemical Plant to the 1961 United Fund were approximately fifteen percent greater than contributions last year according to Co-chairmen C. L. Martin and F. G. Reitz. A total of \$15,133 was donated to the 1961 United Fund.

nical Department in the Industrial Chemicals Division had a percentage of 111 percent of goal, the Utilities had 182

See UF CONTRIBUTIONS Page 2

Shell Nurses Attend Local Health Meet

The Second Annual Health Conference was held in Houston recently, and Shell people played a prominent role in its success.

The conference was sponsored by the Houston Area Industrial Nurses Association, an organization which lists as members Hortense Hines and Laura Perry from the Refinery and Dolores Worthington of the Chemical Plant.

The conference was held at the Rice Hotel on October 7, 8 and 9. In addition to the three Shell women mentioned above, those attending the conference included Evelyn Leamons, Refinery, and Marie Karney, Chemical Plant. The Refinery's Elizabeth Hechler, who is a past secretary of the Houston Area Chapter of Industrial Nurses, was present for the Anniversary Banquet on Saturday night, October 8.

Also present for some of the sessions were R. J. Griffin, Refinery Fire and Safety Department, and J. H. Looney, Refinery P&IR Department.

Hortense is secretary of the local organization as well as secretary of membership for the statewide association. She served as the promotion chairman for this conference, and was assisted by Laura, who was a member of the committee.

One of the featured speakers was V. J. McCoy, Public Relations Manager for Shell Oil Company in the Houston

See J. A. COMPANY, Page 2

See NURSES, Page 2

Additional Treating Facilities Scheduled For Construction At Houston Refinery

During the fall of 1961 Shell expects to complete construction of additional facilities at the Houston Refinery for the purification of waste water entering the Houston Ship Channel.

used for many years to purify domestic sewage but it has been applied to petroleum refinery and industrial waste waters only within recent years.

With the exception of an acidity-alkalinity control system, the new facilities will be located in the area near the Ship Channel and east of the two separator settling ponds. The acidity control facilities will be constructed at the north end of the Distilling, Dispatching and Treating Separator No. 2.

mounted above the large rock-filled tank. Crushed trap rock carefully graded for size will be used to fill the open-top tank which has a top surface area of 23,000 square feet, or more than one-half acre. The four long arms of the distributor will rotate to provide a uniform flow of water down through the rocks.

Similar to Action in Stream of Water

Purification takes place as the water trickles through the rocks because of the presence on the surface of the rocks of

See TREATING, Page 3

Chemical Plant Will Sponsor Junior Achievement Company

The Chemical Plant has accepted the sponsorship of a Junior Achievement Company which draws its members from Pasadena and South Houston High Schools. This is the first Junior Achievement Company sponsored by the Shell Chemical Company in the Houston area.

The Junior Achievement program is organized to provide high school students with an opportunity to learn about the operation of our free enterprise system. They obtain firsthand experience by forming and operating a small business. Each company builds and sells a product, which either makes a profit or incurs a loss.

Several meetings have been held and the company is gradually becoming a thriving little business. It will be known

as the Tro-Pas Company. Officers will be elected in the near future and gradually assume the responsibility for the operation of the company.

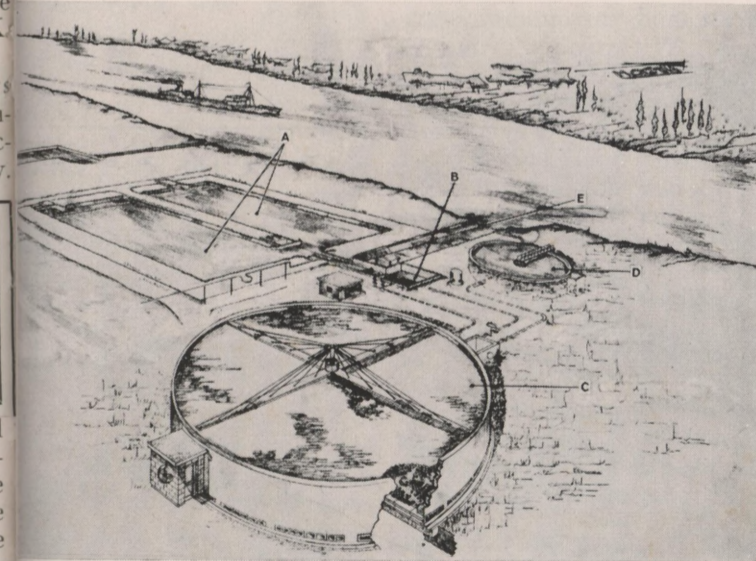
Initially Tro-Pas Company will manufacture and sell a map holder that can be placed in the compartment of an automobile. Consideration is also being given to producing one or two other products, but the final decision has not been made.

Each Junior Achievement Company is required to obtain its operating funds by selling shares of stock to the public. The Tro-Pas Company has begun the sale of its stock at \$0.50 per share with a limit of five shares per purchaser. Initial plans call for a capitalization of \$250.00 and there is still an opportunity for anyone

Effluent water from the two settling ponds will be routed to a large gathering basin equipped with lift pumps, which will discharge the water through a rotary distributor

Significant Improvement

The purpose of these facilities is to provide a significant improvement in the quality of this waste water. The biological method has been

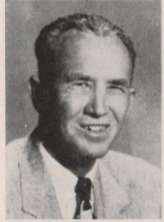


THESE are the biological filter facilities as they will look after completion at the Houston Refinery in the fall of 1961. The major components of the system include: (A) the two existing settling ponds which will be the collection point for waste water; (B) marks the location of the water gathering and pumping system which will move the waste water from the settling ponds to the large circular filter tank (C). From the filter tank the water moves to the clarifier (D); and from the clarifier the clear water is then emptied into the Houston Ship Channel at point E.

Three Refinery Employees Clock Out For Final Time As Retirement Begins

Three Refinery employees completed their Shell careers on October 1 and entered a life of retirement.

Included in the group are L. L. Burkhalter, A. J. Clements and Ennis Reese. All three spent their entire career at the Houston Refinery.



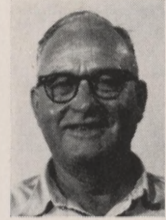
BURKHALTER

Burkhalter is the senior service member of the three, having over 30 years with the Company. His Shell career began in November 1929 when he was hired as a pipefitter helper in the Engineering Field Department.

In January 1930 he was transferred to the Dispatching Department. With the exception of a brief period in 1932 when he returned to the Engineering Field Department, the remainder of Burkhalter's career was associated with the Dispatching Department. His first assignment in Dispatching was as Casinghead Rackman. In the years to follow he held various classifications in the department, becoming a Pumper No. 1 in October 1946. He worked in this classification until his retirement this month.

A long-time resident of Pasadena where he resides with his wife at 611 South Center Street, Burkhalter plans to con-

tinue to maintain his home there during his retirement.



CLEMENTS

Completing 19 years of service with the announcement of his retirement is A. J. Clements. In his retirement he plans to build a beach cottage on Galveston Bay and catch up on his fishing. He will continue to maintain his Houston home at 5611 Brady.

Clement was hired as a general helper at the Houston Refinery in 1941. In March 1942 he became a pipefitter helper, and advanced to Pipefitter No. 2 in May 1943. This was followed by his transfer to the Effluent Control Department in August 1946. In July 1948 he became Cooling Water Pumper No. 2, his classification until retirement.



REESE

Completing the list of retirees for October is Ennis Reese, whose retirement follows 18 years service with Shell. He prepared for this day with the purchase of a home near Willis, Texas. His retirement will be centered around taking care of this place.

Reese was hired in October 1942 as a laborer in the Re-

finery Engineering Field. During the years to follow he worked in various classifications, becoming a yardman in April 1943 and a special laborer in March 1960.

New Shell Film Is Now Available

The third in a series of filmstrips designed to help drivers sharpen their ability to spot traffic hazards and avoid accidents was released recently by Shell Oil Company.

Titled "Perception of Driving Hazards—Part III—Highways and Byways," the new training aid shows hazards on ordinary highways and secondary roads—the types of roads on which most accidents occur.

It completes a three-part series developed and produced by New York University's Center for Safety Education, and Shell. The initial filmstrip dealt with around-town driving, and the second, with super-highway driving. The series now gives driving instructors a set of visual aids covering the full range of general driving conditions found in the United States.

Designed for classroom use, each filmstrip consists of a series of color slides showing traffic hazards as they would appear to a driver approaching the potential danger. Each scene is flashed on a screen for a few seconds, after which the viewers are asked to indicate the hazard and tell what action they would take to avoid an accident.

The filmstrips and an accompanying training manual are offered free to high schools, corrective driving clinics, industrial fleets and safety organizations.

Employees who wish to obtain the filmstrips for local school or safety organizations may secure them through the Employee Communications Section of the Personnel and Industrial Relations Department at either the Chemical Plant or Refinery.

J. A. Company—

(Continued from Page 1)

interested to purchase a few shares.

As a sponsor of a Junior Achievement Company, the Houston Plant is expected to supply advisors to offer assistance and advice to the company's officers. Chief advisor is W. J. Drennen, Treasury Department; production advisor is D. L. Nelson, Industrial Chemicals, Research and Development; M. B. Lloyd, Industrial Chemicals, Shipping is sales advisor.

Any employee interested in serving as an advisor to the Tro-Pas Company should contact any of the present advisors.



V. J. McCoy, Shell's Public Relations Manager in the Houston Area, addresses the Second Annual Health Conference at the Rice Hotel. A number of Shell people were present to hear the talk.

Nurses—

(Continued from Page 1)

Area. The title of McCoy's address was "Power of Communications in Industrial Health," and carried out the conference theme, "More Power To You." His talk was presented at the conference luncheon in the Brazos Room, Saturday, October 8.

The three-day meeting attracted nurses from industry and public health service, with the delegates coming from throughout the state. Also attending were senior students from nursing schools in Houston and one in Galveston.



SHELL people were among those present at the Rice Hotel to hear V. J. McCoy. Around the table from left to right are Mary Patten Bonner, Houston Area, Shell Oil Company; Dolores Worthington and Marie Karney, Chemical Plant; E. P. Leomons, Refinery; R. J. Griffin, Refinery; Hortense Hines, Refinery; and Bonnie Hynson, Shell Development Company.

Employees Aid In United Fund Drive As Volunteer Workers

Refinery and Chemical Plant employees are helping the 1961 United Fund drive toward its goal in many ways.

Included in the group of volunteers who are working in the neighborhoods and business districts of Harris County are eight Refinery men. They are a part of the army of over 10,000 men and women who seek to make this year's drive a success.

One of these workers is B. B. Dorrell, manager of the Refinery Dispatching Department. Dorrell serves this year as the co-chairman of the drive in East Harris County, an area which includes Deer Park, Genoa, South Houston, La-Porte and surrounding territory. Within his group of workers are Marx Isaacs of the Technological Department and R. G. Eveld, Refinery Laboratory, who worked for a week as special solicitors.

Another Refinery employee, Clarence Eldridge, Engineering Field Department, is assigned to the Metropolitan Division of the United Fund where he will be helping raise United Fund dollars.

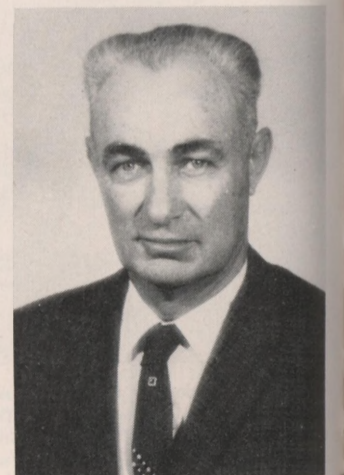
Four Refinery men are assigned to District 65 of the United Fund drive which operates out of the East End Y.M.C.A. Among those in this district who will call on homes and business are C. D. Fisher, Engineering Field Depart-

ment; C. H. Welch, Refinery Laboratory; C. F. Stebbins, P. & I. R. Department; and J. R. Bolton, Treasury Department.

Four Chemical Plant employees joined the United Fund effort in Houston and Harris County. Included in this group from the Industrial Chemicals Division are J. R. Crowley, Research and Development; J. R. Johnson; Engineering Department; D. C. McMillan, Technological Department; and R. G. Powell, Personnel and Industrial Relations. Crowley served as the district chairman, while Powell was co-chairman. Johnson and McMillan were team captains.

Their district included a section of Southeast Houston and the Clear Clear area.

30 Years Service



W. F. Arnold Dispatching (Refy.)

UF Drive—

(Continued from Page 1)

partment soared 239% above their minimum quota to spearhead the campaign. Close behind were Engineering Services, who contributed at a rate of 198% of their quota. Other departments far above their quotas included Personnel and Industrial Relations, Effluent Control and Treasury. The list of departments surpassing their goal is even longer and includes Engineering Office, Industrial Engineering, Refinery Laboratory, Gas, Research Laboratory, and Thermal Cracking.

UF Contributions—

(Continued from Page 1)

per cent. Other departments to join this select group include Engineering Office and Engineering Development. In the Plastics & Resins Division both Research and Development and Technical exceeded their goals by six percent.

The average contribution per donor increased from \$9.82 in the 1960 campaign to \$10.50 for 1961.

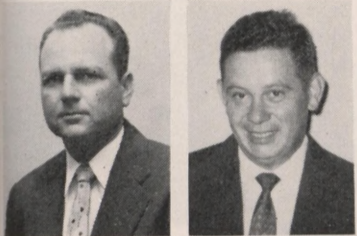
A vote of thanks is extended to the United Fund solicitors who made it possible for us to reach the highest total contribution in the history of the Chemical Plant.



THE SIGN TELLS THEIR STORY—Not long after the United Fund Drive officially opened at the Refinery on the morning of October 4 these two men were at UF headquarters to report 100% participation by their separate departments. On the left is B. E. Norwood of the Effluent Control Department, and on the right is H. M. Sims of the Economics and Scheduling Department. Receiving the cards is E. P. Logan, UF committeeman. This scene was duplicated often during the campaign.

Better than four out of every five wells drilled in the world are drilled in the United States.

H. J. Bettencourt, L. S. Alpert In Personnel Changes At Chemical



BETTENCOURT ALPERT

Personnel changes affecting two employees in the Plastics & Resins Division, Chemical Plant have been announced by Glenn Purcell, Plant Manager.

L. S. Alpert has been named Manager—Maintenance replacing H. J. Bettencourt who has been named project engineer on a new assignment.

Alpert, a graduate of California Institute of Technology, began his career with Shell in August 1947 when he was employed as an engineering inspector at the Shell Point Plant in California. He was assigned as a junior engineer in June 1948 and was named to engineer in July 1949.

In September 1954 he be-

came a senior engineer and was transferred to the Ventura Plant. He went to Head Office in July 1955 and returned to Ventura in March, 1956. One year later he was reassigned to Head Office. In conjunction with the construction of the phenol unit, he was assigned to the Houston Plant as a senior engineer. His assignment prior to this promotion was Senior Engineer—Technical Department—Plastics & Resins Division.

Bettencourt joined Shell in September 1949 shortly after his graduation from Texas A&M College. He became an engineer in September 1951 and was assigned as area engineer in February 1957. In April 1959 he was named Manager—Maintenance—Plastics & Resins Division, the position he held until his new assignment.

Meet Kenny And Janie Martin— They Help Keep The Eagle Flying

Mr. and Mrs. J. M. Martin of Pasadena are not likely to forget this football season any time soon. There is good reason; they are raising two cheerleaders in the family, possibly three.

Janie and Kenny Martin are two high-spirited cheerleaders for Pasadena High School this year, and this fact is unique in itself for this is the first time in the school's history that a brother and sister combination ever held this honor.

Martin, who works in the Research Laboratory at the Refinery, says his family has always been football fans. This includes his wife, Esmerelda and 11-year-old Debbie—besides the aforementioned teenagers.

Janie, a 16-year-old junior, is serving her first year as a cheerleader. Last year she was an alternate. To become a cheerleader, a student must first be chosen by a committee and then elected by popular vote of the student body. Asked if this has been an ambition of long standing, Janie sighed, "As long as I can remember."

But for 17-year-old Kenny,



WEST 10th STREET at the Chemical Plant may have looked like an avenue in Venice at the height of the summer rains, but after the rebuilding and resurfacing was completed the road can now accommodate heavy trucks and cranes.

Rain-Delayed Road Rebuilding Finally Completed At Chemical

The rebuilding and resurfacing of West 10th Street, the main road into and through the Chemical Plant was recently completed. The new

road was necessary because the original surface and roadbed were deteriorating and starting to require excessive maintenance.

Inasmuch as West 10th Street is the main thoroughfare, it was necessary to design the new road to accommodate heavy trucks and cranes. The roadbed was excavated to a depth of 32 inches and the road built from this base. Much of the old road material was used to build temporary roads near the Effluent Treater area.

West 10th Street was originally an old county road and served as the entrance road to the Houston Refinery during its early history. During the digging of the new roadbed, many unusual items were uncovered. An abandoned and unknown pipeline and several pieces of rusty steel culvert were found, plus many other miscellaneous items of interest.

Since the month of August is normally one of the driest months in Houston, the project was scheduled for August 1. The first phase was completed without complication; however, after two days of excavation on the second phase, the infamous 23 days of rain started. For a while the road in front of the Main Office Building looked like part of Venice.

The delays caused by the rain also caused some unexpected problems on traffic rerouting. However, due to planning and the cooperation of all employees, no insurmountable problems were encountered.

Living Costs Up, Gas Holds Line

While the cost of all commodities rose 21 per cent between 1950 and 1959, the actual retail price of gasoline, minus taxes, inched up only 5.5 per cent. Moreover, the quality of the fuel improved greatly in the same period.

But this surprisingly modest rise in gasoline price was camouflaged by a full 51 per cent increase in gasoline taxes. Today the combined state and federal tax averages 10.12 cents per gallon.

As a result, direct taxes now equal nearly one-half the retail cost of the fuel itself, which at the end of 1959 averaged 21.18 cents a gallon, minus taxes.

Service Parties Nearly Through

Two parties, one week apart, close out the 1960 Refinery Service Club celebrations.

The first of these gatherings was held Saturday evening, October 29, at the El Rancho Restaurant, 3621 Canal Street in Houston. On this evening the Refinery Latin American Ten Year and Over Service Club met for an evening of fellowship and good food.

The party was held in the private dining rooms of the restaurant, and offered a menu featuring fried chicken, French fried potatoes, salad, frijoles, tostados, tacos, guacamole salad, and refreshments.

In addition to the banquet-type dinner, two tables of hors d'oeuvres were available for the guests. The party got underway at 5:00 p.m., with the dinner being served at 6:00.

The El Dorado Club at 2310 Elgin Street in Houston is the site of the final Refinery Service Club party for 1960, scheduled for Saturday, November 5. The Service Club members will have access to all the facilities of the club for the celebration, with festivities due to begin at 11 a.m.

The menu for this party centers around a Texas Style Chicken-in-the-Basket Dinner, complete with all the extras. The popular tables of hors d'oeuvres will be in prominence at the gathering.

Treating—

(Continued from Page 1)

a variety of living organisms and cellular matter such as bacteria, protozoa and algae. These feed upon the objectionable materials present in the water. The treatment afforded by this process is comparable to the self-cleansing action of a natural stream of water.

From the filter the treated water will enter an adjoining clarifier. Any objectionable solids still remaining in the water at this stage of the purifying process will be removed and only clear water emptied into the Channel.

This project is indicative of Shell's desire to maintain a progressive approach to the prevention of stream pollution, and the protection of marine life.

The Houston Refinery will be the first petroleum refinery in the Houston Ship Channel area to employ nature's "wonder bugs" in this manner.



IRIS HARMON proudly displays the certificate proclaiming her a Certified Public Accountant. The orchid on the desk beside Iris was given by the American Society of Women Accountants.

Harmon Passes Three-Day C. P. A. Entrance Exam

A dream came true for the Refinery's Iris Harmon, recently, with notification she had passed all the necessary requirements to become a Certified Public Accountant. Her appointment was effective July 31.

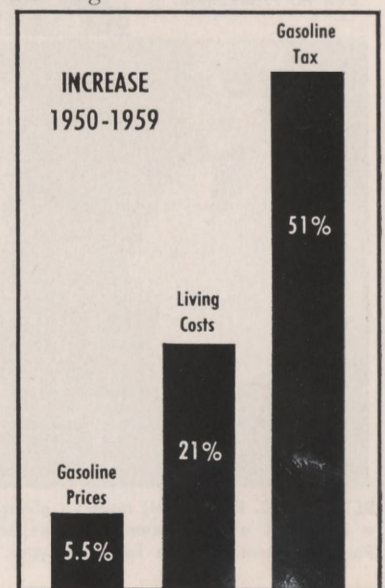
To achieve this goal, Iris had to pass a series of tests this past spring. The tests were prepared by the American Institute of Certified Public Accountants, and administered by the State of Texas at a testing center in Galveston. The phases covered in this three-day examination included accounting theory, auditing practices and techniques, business and commercial law, and accounting practices.

The local chapter of the American Society of Women Accountants noted the occasion by presenting Iris with an orchid. Iris is a past president of the organization. She also holds membership in the National Association of Accountants.

An accountant in the Refinery Treasury Department, Iris recently completed 18 years of service with Shell.



GO TEAM!—And if cheers and enthusiasm are a factor the Pasadena High School team should "Go" this year. Helping bring those cheers are Kenny and Janie Martin, whose father is J. M. Martin of the Research Laboratory at the Refinery.



Ten And Over Party Time At Refinery



THE FRUIT DISPLAY on the large table in the Houston Executive Club's ballroom proved to be one of the real "eye-catchers" at this year's Refinery 10 & Over Service Party. Sampling the contents here are R. F. Clayton, J. F. Lieder, G. A. Lindstrom and J. A. Lyne.



EARLY BIRD—First man to pick up his badge from E. L. Ford for a day full of activity at the Service Party was C. P. Griffin, Engineering Field. There were activities to occupy the time of everyone throughout the party.



CART CONVOY—There were no long walks between holes for these Service Club golfers. Seated in the golf carts from left to right are R. J. Kennerty, W. E. Rasco, P. M. Sharp, C. R. Brockmeyer, T. F. Kent, A. R. Pustejovsky, W. W. Amason and R. L. Schroeder. Many of the golfers turned in good scores.



WELCOME ABOARD! Retiree R. H. "Doc" Coombs, senior member of the Service Club, welcomes new member C. L. Smith into the Club.



THESE Service Club members seemed to be enjoying themselves when this picture was taken. Seated around the table are C. L. Smith, M. B. Mitchell, C. V. Barbe, G. E. Thorn, L. L. Murphree and I. F. Harmon.



DOMINO-PLAYING was also on the agenda for many Service members. From left to right are W. L. Carraway, E. B. Hawkins, W. L. Orand and H. Lillie.

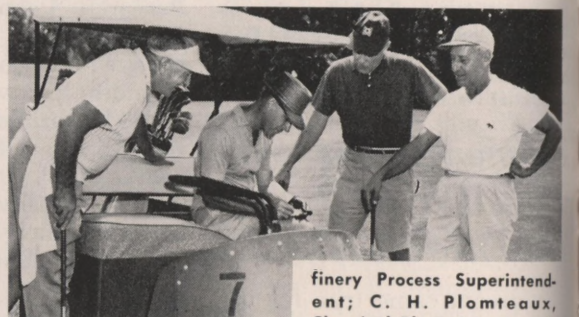


AMONG the ladies present for the party were (across the top) R. L. Pollock, E. E. Heyen, C. V. Barbe and Retiree Opal Hickman Knudson. Standing in front are L. A. Cassner and M. F. Sherman.

THIS FRUIT-FILLED WATERMELON will soon be an empty shell when this group gets through. Around the table are M. O. Baker, J. C. Crocoll, L. K. Gillum, R. M. Thompson, F. C. Denny, V. Anastasoff and R. W. Coffey.



RETIREE P. L. BENSON, second from right, talks over old times with M. A. Rogers, J. R. Devereaux, D. W. Goldsmith and J. A. Tench in this sidelight at the Refinery Service Club Party.



THIS SHELL FOURSOME pauses to check their scores between holes. From left to right are L. J. Snyder, Refinery Process Superintendent; C. H. Plomteaux, Chemical Plant Superintendent; J. C. Kelbaugh, Refinery Administrative Superintendent; and Chemical Plant Manager Glenn Purcell.



RETIREE T. E. Ross (right) must be giving W. A. Carpenter a few hints about retirement at the recent Service Club Party. Carpenter retires later this year.



THE TRADITIONAL CAKE-CUTTING ceremony was performed this year by Refinery Manager J. A. Tench, as Retiree J. L. Miller observes.



THESE THREE SHELL MEN looked forward to the Service Club Party, and they look as though they are enjoying themselves. Here M. Robison chats with Retirees R. L. O'Brien and J. M. Fincher.



NO RETIREMENT SERVICE PARTY would be complete without a good turnout of Retired employees. Reminiscing here are R. K. Hopper, J. J. Roark, B. Green, F. G. Sager, and C. M. Magness.

Refinery Service Party Attracts Greatest Turnout In History

The largest turnout in the history of a Refinery Service Club party gathered at the Houston Executive Club Saturday, September 17.

The all-day affair enjoyed the greatest participation by Service Club members since the annual gathering was introduced by the Company 21 years ago. The record crowd of Service Clubbers included 38 retired employees and everyone enjoyed a variety of activities from golfing to domino playing.

As an added attraction this year, a large table completely covered with over 2,000 pieces of fruit from all parts of the world greeted the guests in the main ballroom. Before the day was over the international crop had been harvested by eager

Chemical Plant Service Clubbers Enjoy Barbecue

As part of the Service Club activities for 1960 at the Chemical Plant approximately 480 employees and three pensioners attended a barbecue at Milby Park.

This year's barbecue was blessed with good weather. The food was excellent and plentiful and the opportunities to renew acquaintances were many. On hand to greet old friends were the pensioners, D. J. Start, J. J. Brown, and J. T. McMahan.

Many hardy souls went to the Rice-Georgia Tech football game after the barbecue, but the rain and cold wind made conditions uncomfortable. Those employees who came prepared for the worst and remained at the game saw a very exciting and close game.

and receptive Club members.

Shell golfers were away to an early start on the greens of the fine Houston Executive Club course, with many of the foresomes teeing off before 6:00 a.m. W. E. Rasco, who was in charge of golf arrangements, listed nearly 120 golfers who signed up for play. Some of the highlights reported on the golfing rounds included a near-par 74 by B. A. Mueller and a pair of 78's by E. L. Ford and M. F. Fletcher. Fletcher aided his total with an eagle, while R. L. Schroeder had three birdies on his way to an 81.

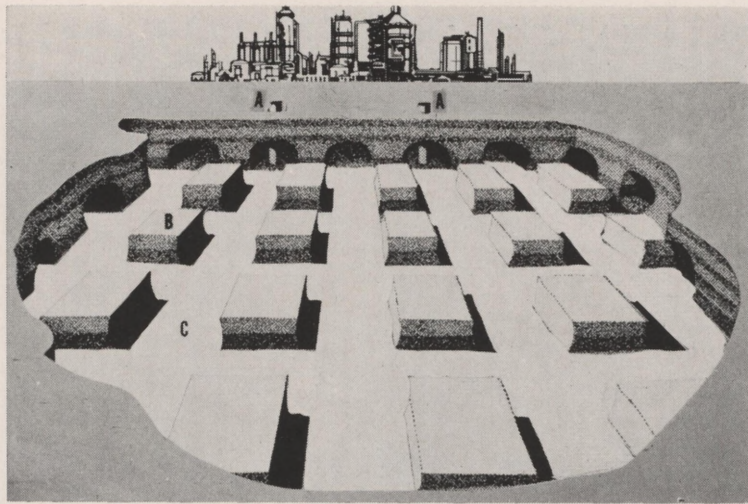
Inside the Club, a piping hot fried chicken and shrimp dinner awaited each member, and he could whet his appetite from a wide selection of hors d'oeuvres liberally stationed about the Club.

Among the retirees present again this year were Opal Hickman Knudson, who returned from Albuquerque, New Mexico to attend the party, and J. L. Miller, former Refinery Superintendent who now makes his home at McQueeney, Texas.

The large service anniversary cakes—and there were two cakes this year—were gaily decorated to commemorate the occasion. The traditional cake-cutting ceremony was performed by Refinery Manager J. A. Tench.

10 Years Service

- C. G. Anderson
Dispatching (Refy.)
- C. C. Cederblom
Engineering (Chem.)
- R. C. Manning
Technological (Chem.)
- D. Smith
Eng. Field (Refy.)



THE WORLD'S LARGEST MAN-MADE STORAGE CAVERN has been dug by Shell Oil Company at the Wood River Refinery. Four-hundred-fifty feet underground, it's the size of 2½ football fields and holds 22 million gallons of butane, which is now being pumped into the cavern. Filling will take 3½ months. The drawing is a cut-away of one section of the cavern. The white blocks (B) indicate the 35-foot-high columns of undisturbed rock which separate the underground tunnels (C) and support the cavern's roof. Everything involved in the digging—men, machines, and excavated rock—was moved through two shafts 50 inches in diameter (A).

For Petroleum Products

World's Largest Mined Storage Tank Completed At Wood River

Shell Oil Company has said "Fill 'er up"—and thus started the 3½-month job of pumping butane into the world's largest mined storage tank for petroleum products.

The tank is a cavern cut into a limestone formation 450 feet underground at the Wood River Refinery. Butane is accumulated in the cavern during warm weather and used in cold weather in increased amounts in gasoline for quick starting and warm-up.

The cavern, covering an area the size of 2½ football fields, holds 22 million gallons of product. It consists of a series of connecting tunnels, each 25 feet wide and 35 feet high. Thirty-three pillars of undisturbed rock, each 40 feet square, separate the tunnels and support the roof.

Building the cavern took ten months. Excavators drilled two shafts, 50 inches in diameter and 500 feet deep. Everything involved in the digging—men, machines, and 175,000 tons of excavated rock—was moved through these two small shafts. Machines were lowered piece by piece and re-assembled at the bottom.

The limestone formation is ideal for the storage cavern because it is free of fissures that would permit seepage of water from the water table above the limestone. Contractors for the job, Fenix and Scisson, Inc., of Tulsa, Oklahoma, said it was the tightest forma-

tion they had ever dug.

A second cavern, about 1000 feet from the first is being built. It will hold about 10 million gallons of propane, used as bottled gas. Completion is scheduled for the end of the year.

Columnist Comes To Refinery For Story, Has Tables Turned

Marge Crumbaker came to the Houston Refinery recently for an interview, but before the popular HOUSTON PRESS columnist was through the tables had been turned and she became the object of a story.

Her visit was prompted by the recent honor given L. J. Hallmark, Refinery Personnel and Industrial Relations Manager, by the National Secretaries Association. Miss Crumbaker, whose daily column "Career Girl" is familiar to thousands of HOUSTON PRESS readers, wanted to prepare an article about Hallmark and his participation in the N. S. A.'s Institute for Certifying Secretaries.

Marge got her story alright (the well-written article appeared in the Monday, October 10 edition of the PRESS), and the SHELLEGRAM got a story at the same time.

As the author of this highly-entertaining column, Marge knows of what she writes as she reports on women, their careers and their interests. A

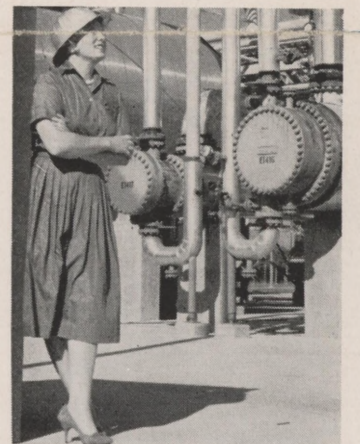
Dawkins Wins Bridge Tourney

G. S. Dawkins, Research & Development, Plastics and Resins Division at the Chemical Plant and his partner Ray Carmichael, an employee of the Southern Pacific Railroad, were winners in the recent Sectional Tournament that was sponsored by the American Contract Bridge League.

Dawkins and his partner won the first session of the open pairs and then placed third in the over-all open pairs competition. They were awarded 10 master points.

Houston hosts two Sectional Tournaments a year. At the recent tournament, the players were from Texas, Louisiana, Mexico and a few came in from other sections of the United States. Many of the players have national reputations.

Several other Chemical Plant employees and their wives also played in the tournament. From Research and Development, Industrial Chemicals Division there were G. H. Riesser and his wife, Joanna, G. S. Morrow and his wife, Ida, and C. L. Ford. F. L. Fredrickson, Engineering and his wife, Norma Jeanne also participated.



PRESS Columnist MARGE CRUMBAKER'S tour of the Refinery included a stop at the new Distillate Hydrotreater.

look at Marge's career leaves you with the impression here is someone just as newsworthy as the people she has been writing about for the past five years.

Besides her daily newspaper column, Marge owns a local talent booking firm. An accomplished musician (she once played with Artie Shaw's band) she also finds time to operate her own band. This includes not only regular appearances by the band but also making records for a local recording company.

Her career also included a stint as the music director for the Columbia Broadcasting System in Houston.

Her visit to Shell, though short, was activity-filled. Besides the interview with Hallmark, she lunched with Ety Mathews, a member of the Houston Chapter of N. S. A., then got her first tour of a refinery in operation.

Her reaction was typical of many who see a refinery firsthand for the first time. "This place is amazing."



SHOWN HERE ARE E. R. Mosley, Engineering Maintenance, and B. B. Relf, Purchasing-Stores, enjoying the barbecue dinner. Have you ever seen a slide put to better use? These pictures were taken at a recent Chemical Plant Service Party.



PASSING THROUGH THE SERVING line are the three retirees who attended the Service Club barbecue. Left to right are D. J. Start, J. J. Brown, and J. T. McMahan. The party was held at Milby Park in Houston on Saturday, September 24 and attracted a good turnout of club members.



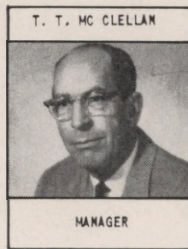
SERVICE CLUB ACTIVITIES PROVIDE an opportunity for employees to get together and visit and share good food. Shown above are several employees putting the patio of the Milby Park clubhouse to good use. Left to right are L. M. Barnes, L. M. Nenko, L. D. Coddington, J. C. Joyce, R. S. Zawistowski, T. R. Bradley, J. P. Callaghan, and L. D. Heinze.

HOUSTON REFINERY



DISTILLING DEPARTMENT
STAFF PERSONNEL

NOV. 1, 1960



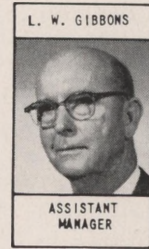
T. T. McCLELLAN

MANAGER



J. C. MERRITT

ASSISTANT
MANAGER



L. W. GIBBONS

ASSISTANT
MANAGER

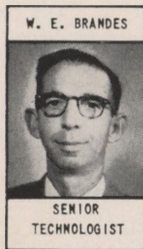
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TECHNOLOGICAL

OPERATING ASSISTANT

CLERICAL



W. E. BRANDES

SENIOR
TECHNOLOGIST



D. W. LANNING

TECHNOLOGIST



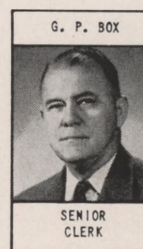
R. E. MANN

TECHNOLOGIST



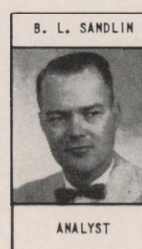
R. B. HOWELL

OPERATING
ASSISTANT



G. P. BOX

SENIOR
CLERK



B. L. SANDLIN

ANALYST

DISTILLING

LIGHT OIL FRACTIONATION
AND TREATING



W. D. EDGERTON

SHIFT
FOREMAN



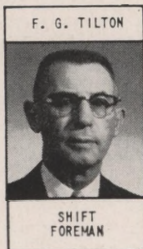
F. J. LONG

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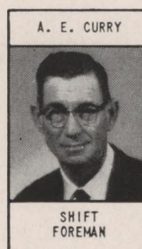
J. L. THOMPSON

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FOREMAN



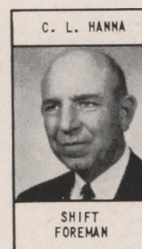
F. G. TILTON

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FOREMAN



A. E. CURRY

SHIFT
FOREMAN



C. L. HANNA

SHIFT
FOREMAN



R. H. HUTCHINGS

SHIFT
FOREMAN



J. L. MUSTIN

SHIFT
FOREMAN

25 Years Service

Retiree "Hits Jackpot" In Credit Union Contest



G. L. Boatright
P. & I. R. (Refy.)

W. R. Moeller
Eng. Office (Refy.)

R. E. Schroeder
Ind. Eng. (Refy.)

15 Years Service

- C. F. Brandt
Eng. Fld. (Refy.)
- J. C. Chambers
Operations (Chem.)
- L. A. Gersteman
Eng. Fld. (Refy.)
- C. D. Hibler
Eng. Maint. (Chem.)
- H. C. Hudson
Research (Refy.)
- E. W. Macek
Dispatching (Refy.)
- G. A. Martin
Research (Refy.)
- L. M. Nenno
Eng. Maint. (Chem.)

- E. S. Paul
Eng. Fld. (Refy.)
- A. P. Peterson
Eng. Fld. (Refy.)
- B. B. Relf
Purch. — Stores
(Chem.)
- H. R. Stone
Eng. Maint. (Chem.)
- E. B. Tapley
Eng. Maint. (Chem.)
- L. E. Tucker
Eng. Fld. (Refy.)
- E. L. Williams
Eng. Fld. (Refy.)

"This is the first time we ever won anything like that . . . but it was worth waiting for."

With this remark amazed, but happy Refinery retiree, Elmore Simen, accepted the fact he had just won a free, all expense paid tour for two to the Hawaiian Islands.

The contest which offered this 10-day dream vacation was sponsored by the Houston Chapter of Credit Unions. Proceeds from the sale of tickets went to the Educational Fund of the Chapter, of which the Shell Refinery Employees Federal Credit Union is a member.

Faced with the choice of accepting the vacation or \$1,000 in cash, Simen took the money.

CREDIT UNION NOTICE

The Supervisory Committee of the Credit Union has completed the quarterly audit of individual members' accounts. Any member whose Credit Union book number ends in 3, 4, 5 or 6 and who did not receive a quarterly statement should notify the Credit Union Supervisory Committee, Post Office Box 818, Deer Park.

He and Mrs. Simen had immediate plans for part of the prize.

"First, we are going to make a contribution to our church," Simen explained. "Then, we are going to buy a deepfreeze." For the remainder of the money — Simen said he probably would bring it back to the Credit Union and add to his savings. The trip to the Credit Union won't be a new experience for him, either. He

has been a Credit Union member for the past 13 years, and in his retirement, presently works part-time as a janitor at the Credit Union's Deer Park office.

Simen retired from the Houston Refinery on April 1, 1959, completing a Shell career which dated back to July 1935. At the time of his retirement, Simen worked as a janitor in the Refinery Engineering Field Department.



IT WAS A HAPPY MOMENT for Refinery Retiree Elmore Simen and his wife, Magdel, when Credit Union Manager G. F. Breckenridge handed them a check for \$1,000. This was the amount they received for winning the all-expense vacation to Hawaii in a contest sponsored by the Houston Chapter of Credit Unions.

To provide you with information about...

Public Issues Affecting Our Industry

Percentage Depletion Benefits Everyone; Not "Special Treatment" Reserved For The Oil Industry Alone

It is only natural for people to suspect and criticize what they do not understand. Most criticism of percentage depletion is based on a lack of understanding. "Why," people ask, "should the oil industry get special tax treatment?"

The "special treatment" to which they refer is the percentage depletion deduction — a deduction permitted in computing Federal income tax of oil producers and all other owners of mineral deposits. Why this "special treatment?" Why should oil producers — and owners of other minerals — be permitted a deduction not given to other businessmen?

Tax Laws Recognize Difference In Industries

Why have petroleum and other mining businesses been taxed in a fashion different from other industries? Simply because they are different — and the tax laws have recognized this difference from the inception of the income tax. Our tax laws recognize the fact that differing circumstances require different tax treatment. For instance, the rules and rates that apply to the computation of the tax on an individual's income differ from the rules and rates applicable to a business corporation. And among business corporations, different rules apply to different kinds of businesses.

Percentage depletion (applicable to mineral producers) is a tax deduction somewhat similar to the depreciation deduction applicable to industries such as manufacturing. It differs from depreciation because a mineral enterprise differs from a manufacturing business. There are two main points of difference: (1) a mineral producer is constantly selling off his main asset, and (2) this asset's value has no relation to what it cost.

Almost anybody can see the difference between a shoe factory on one hand and a coal mine or oil well on the other. The shoe manufacturer has a factory which makes shoes; he sells the shoes, but still has the factory left as an asset. The coal mine or oil well owner realizes income only as he sells off his deposit of coal or oil; when he's finished, he has an empty coal mine or an exhausted oil well. He is in the same position as the shoe manufacturer would have been if he had sold off his factory piecemeal — a window today, a door tomorrow, part of the machinery the next day.

Long Odds For Finding Commercially Profitable Oilfield

The other main point of difference is that in the case of the shoe manufacturer there is some reasonable relationship between the value of his factory, when it's built and ready for operation, and what it cost to build it. This is not true of the owner of a coal mine or oil well. He may have spent \$150,000 to develop a mining property or drill an oil well — only to find it worth \$10,000 or \$5,000,000, or nothing at all. In the oil business, the latter is the case with embarrassing frequency. Only about one exploratory oil well out of 10 hits any oil at all; and the odds of finding a commercially profitable oilfield are now about one in 50.

These basic differences between the manufacturing and extractive industries were of little concern to anyone until 1913, when

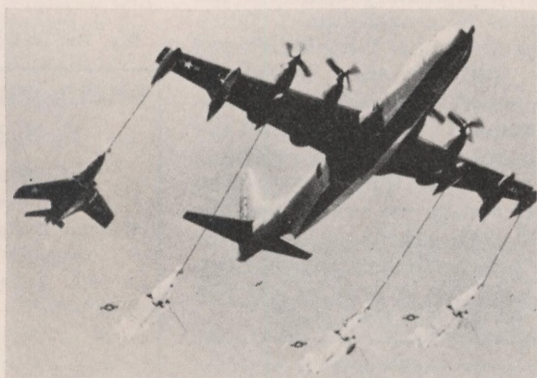
Congress enacted the first income tax law. In setting up rules to guide the computation of business income for tax purposes, Congress provided that an annual deduction might be made for depreciation to reflect the gradual reduction in a plant's value due to wear and tear. Theoretically, the sum of these deductions over a period of years would provide the manufacturer with money enough to build a new plant. At first, manufacturing and mining enterprises were given the same treatment, but the unfairness of treating a mineral producer the same as a manufacturer soon became apparent.

In 1918, Congress enacted a law to permit an oil producer to depreciate not the cost, but the value, of his mineral deposit. While this provided fair treatment, the procedures prescribed for calculating this depletion deduction were so complicated as to be almost unworkable. Both taxpayers and the tax collectors petitioned Congress to study the matter, in the hope of developing some short-hand method that would yield the same result "with approximate justice." In 1926, after long study, Congress wrote into law the so-called percentage depletion deduction at a percentage of 27½ per cent — a compromise between the Senate, which had voted for 30 per cent, and the House, which wanted 25 per cent.

Actual Percentage Deducted In Vicinity Of 23%

What does the 27½ per cent rate mean? It means that an oil operator is permitted to deduct 27½ per cent of the gross income for each individual oil-producing property — with the limitation that the deduction must not exceed one-half of the net income from the same property. This limiting feature means that in actual practice the average percentage deducted by U. S. oil producers is somewhere in the vicinity of 23 per cent. This depletion deduction reflects the gradual reduction in the value of the oil producer's underground assets. In an integrated oil company like Shell, the depletion deduction applies only to individual oil-producing properties — not to other segments of the business such as marketing, transportation, and refining.

The percentage depletion method which was first adopted to simplify the calculation and collection of taxes applicable to oil producers worked so well that it has since been applied to all other mineral-producing industries. The percentages for other extractive industries range from 23 per cent for minerals such as aluminum, sulphur, asbestos, lead, zinc, on down to five per cent for sand, gravel, clay, and oyster shells.



PETROLEUM products play a major role in preserving the peace in these difficult times. Here four Navy jet fighters are being refueled simultaneously by a Convair R3Y-2.

In the years since 1926, Congress has repeatedly investigated the operation of percentage depletion to assure itself that it was in the public interest and not a special favor to a selected group of taxpayers. The latest such investigation was held by the House Ways and Means Committee late last year. At its conclusion, Representative Wilbur Mills (Dem., Ark.), Chairman of the Committee, said that the hearings had shown that the percentage depletion provision was "absolutely justified" as an offset against loss of capital.

An Incentive To Seek Out New Reserves

Another extremely important consideration is that percentage depletion in operation has provided the incentive for American oil producers continually to seek out new reserves so that the nation may be supplied with ever-increasing quantities of oil products so vitally necessary to our economy. Today oil and gas between them account for three-quarters of the total energy produced in this country.

Oil and gas account for such a large portion of total energy production because of their reasonable price compared to alternate fuels. These low prices have been brought about by the continued search for oil and its production in large quantity. Without percentage depletion, oil producers would not have had the incentive to keep up the search for oil in such large quantities that it can be sold at extremely reasonable prices. This abundant low-cost energy is the backbone of America's industrial system and high standard of living. Oil in large quantity, because of the portable energy it supplies, is also one of the most important single factors in the nation's national defense.

These considerations, together with the basic considerations of the differing nature of the oil business, have convinced thoughtful Congressmen each time the subject was examined that percentage depletion works in the national interest, and each time they have recommended its continuance.

Percentage depletion, then, far from being a "special privilege for rich oil companies," is a justifiable tax deduction based on justifiable differences between oil production and other industries. As an incentive to oil producers, it has resulted in large quantities of oil and gas at such low prices that oil and gas have become leading sources of energy and a backbone of defense. In short, percentage depletion benefits all of us.

Cassaro Family Will Remember September 25th

September 25 is an important day in the lives of the J. A. Cassaro family.

For Cassaro, an operator in the Refinery Aromatics Department, this significant date is remembered for three events spanning a period of almost half a century. On September 25, 1912, his parents, Mr. and Mrs. Angelo Cassaro were married. On this day in 1938, Joe and his wife Mary were married. Then, on September 25, 1960, the Cassaro's oldest daughter, Josie Ann, was married. All three marriage ceremonies were performed in Houston.

The most recent marriage uniting a Cassaro on a September 25 was performed at the All Saints Catholic Church. Miss Cassaro was married to Vincent T. Mazzola of Houston. The bride is an honor graduate of St. Pius High School in Houston, class of 1959.

The couple have made their home in Houston at 113 Caplin following a wedding trip to New York.



Mrs. V. T. Mazzola

SHELLEGRAM Receives Awards

The awards committee of the Southwest Conference of Industrial Editors recently announced the SHELLEGRAM a winner in the organization's 1960 Awards Competition.

The Southwest Conference of Industrial Editors includes a membership spanning nine Southwestern states.

Second Place in Division Two — Internal newspapers over 3,000 circulation — was the first citation won by the SHELLEGRAM, while a Second Place in Division 29, Beginners Award, was accorded Editor T. K. Stewart in this special category for publications with first-year editors.

Earlier this year the SHELLEGRAM won the Second Award of Excellence in the nationwide International Council of Industrial Editors' awards program.

A complete oil refinery can cost anywhere from \$25 million to \$200 million or more, depending on how much oil it processes.

Shell Women Work To "Get Out Vote"

If the League of Women Voters has anything to say about it, an informed public will turn out in record number November 8 to decide one of the most important elections of our time.

Well-organized, dedicated and hard-working, the members of this non-partisan group have but one prime aim in all their efforts: to promote political responsibility through informed and active participation of citizens in their government.

League Has Long History

Such admirable ambitions were not born overnight. The League traces its origin back to 1920, having been founded even before the passage of the 19th Amendment to the Constitution giving women the right to vote.

Today, the League functions in large and small communities throughout the nation with three levels of organization—national, state and local. At each level, League workers seek to inform the public and themselves on the important political issues at stake.

The League, though non-partisan, does take action in support of or in opposition to selected governmental issues. It does not, however, support or oppose candidates or support or oppose political parties.

Believing that each citizen should share responsibility for the actions of government, the League urges its members to take an active part in local, state and national affairs. And by participating in League activity on selected projects the members learn by doing.

An example of a League application of this principal of "doing" can be found in Pasadena. Included in this group of over 40 ladies who are actively displaying a keen interest in government are a number of Shell ladies.

Study Many Issues

Through monthly meetings, discussion groups and study projects, these ladies keep informed not only of issues vital at the national level, but also state and local problems.

Typical of the enthusiasm and interest shown in the League was the atmosphere at a recent committee meeting in the home of Mrs. A. J. Wood. The ladies on this committee were preparing future programs to present on the national study item for the



ADDRESSING envelopes for the mailing of the VOTER'S GUIDE is another duty often performed by League members. Mrs. J. B. Bevill prepares the GUIDE for mailing in this picture.



MRS. R. G. SCHNEIDER AND MRS. A. J. WOOD study material concerning the national issue which will be presented to League members in a series of programs in the future. Also on this committee are Mrs. J. A. Byerly and Mrs. S. S. Braun.

League. Present were Mrs. R. G. Schneider, Mrs. S. S. Braun, Mrs. J. A. Byerly, and Mrs. Wood. All are Refinery wives.

The subject of this study item concerns the support of U. S. economic policies which promote world development and maintains a sound U. S. economy.

In the months to come League members (and anyone else interested) will learn more about this very complex problem because of the groundwork done by this committee.

Ladies Have Many Duties

Active for the past three years in Pasadena League work, Mrs. Wood is currently the chairman of this committee. Her interest in the League began in Alton, Illinois where she served as assistant to the president. Within a short while after she and Mr. Wood made their home in Pasadena she was once again deep in League chores. For two years she served as chairman of Voters Service. In that capacity she was responsible for the preparation and distribution of the VOTERS GUIDE, a publication of the League. She also arranged for candidate rallies, where the candidates appeared before the League at a mass meeting.

Mrs. Sue Schneider is the past president of the Pasadena group and now serves as the publicity chairman. Among other things, she is in charge of the speakers bureau which furnishes speakers for local church, P.T.A., and women's club meetings. Quite often she will be a speaker at one of these functions. Like Mrs. Wood, Mrs. Schneider was introduced to League work in Alton, Illinois.

People Are Interested

Mrs. R. H. Hunt, whose husband works in the Houston Research Laboratory, has marched many a mile as a foot soldier in the League's army of volunteers. This is the door-to-door task of distributing the VOTERS GUIDE, and is a duty of almost all members. But the fruits of her walks have been rewarding. "People want to learn more about our government, and they show a sincere interest in the information published in the GUIDE," states Mrs. Hunt. A League member for



CIRCULATING the VOTER'S GUIDE is a familiar duty for Mrs. R. H. Hunt, right. Here, she hands a copy to a neighbor, Mrs. W. H. Craig, of 2216 Dorothy.

the past two years, she served last year on the executive board and was the local current agenda item chairman.

Another Shell lady who is active in the League and keenly aware of the needs of her community is Mrs. A. L. Burrow. Mrs. Burrow, whose husband works at the Chemical Plant, recently served on a special committee appointed by the school board to survey school facilities in Pasadena. Participation in activities of this nature are encouraged by the League.

League Makes Lasting Impression

Mrs. J. B. Bevill, another Refinery wife, admits she hasn't been as active in the League in the last few months as she would like. Sons Michael, 3 1/2, James, 16 months, and Jonathan, 4 months demand most of her time. But the knowledge and insight she has gained from association with the League has made a lasting impression. Political responsibility doesn't belong "to the other person"; it is at our doorstep, and Mrs. Bevill is acutely aware of the duties of citizenship.

You can bet these ladies will be fulfilling these duties of responsible citizenship on November 8. When they pull the curtain on the voting machine, the answers they give will be the results of much thought and soul-searching, calculated to give us better government.

Can this be said for the rest of us on Election Day?

FOR SALE

Modernized Compton-Price vertical grand piano, good tone and nice finish; maple divan and chair; painted dinette table and three chairs; coffee table; 30" sliding door. Call GR 9-2703.

Causes Of Heart Attacks Present Many Mysteries

Second in Series

Like all pumps, the heart must be lubricated. Trouble within the heart's lubricating system can cause coronary thrombosis, the thing most of us call a "heart attack."

The blood flowing through the heart chambers does not serve as the blood supply—or nourishment—for the cells of the heart itself. Rather, the blood that keeps the heart supplied with oxygen and food flows through the many branches of two coronary arteries that form a branching network down over the top of the heart.

A heart attack results because of trouble within these heart-supplying arteries, the coronary arteries. One trouble that can develop is atherosclerosis, a thickening and hardening of the artery walls that is brought about by the laying down of a fatty deposit called cholesterol.

One of the big mysteries which doctors and researchers are now trying to solve is what causes cholesterol to build up in these arteries until they become clogged up much as is a water pipe by lime deposits.

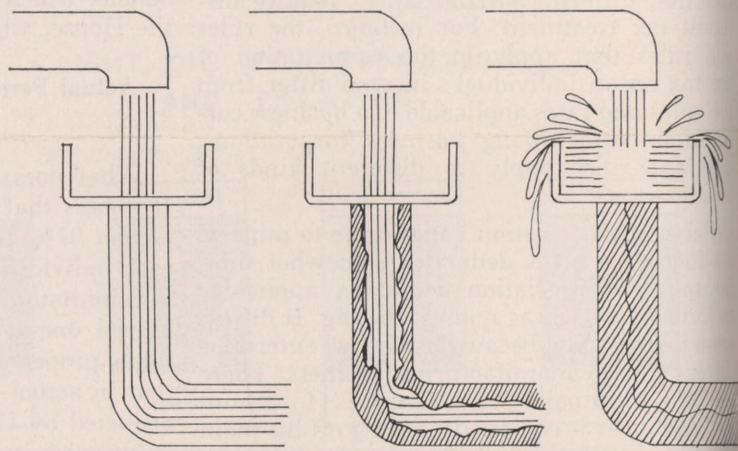
Naturally, less blood can get through these narrowed vessels. The heart attack comes when a blood clot forms in the narrowest part of the artery and thereby cuts off the blood supply to the part of the heart being fed by the

stopped up arterial branch. The clot itself is called a thrombus and the laying down of the clot is called thrombosis—thus *coronary thrombosis* because it happens in the coronary artery.

An ache or pain hits your heart during an attack of coronary thrombosis because a part of the heart is trying to do its work while cut off from its food supply, especially oxygen. Gradually, as the fibers of this small portion of heart muscle become swollen and die, they stop contracting, and the pain slowly goes away.

This portion of the heart has been damaged like a "bruised" muscle by having its food supply stopped. It is soft, dark, flabby and unable to contract, and it has to be taken care of under the guidance of a physician.

(Next month: How your heart is repaired after a heart attack.)



THE FLOW of blood through the coronary arteries may be compared with the flow of water through a water pipe in your home. These illustrations show what happens when the water line becomes clogged up by lime deposits. The build up of cholesterol in the arteries produces the same results. A heart attack occurs when a blood clot forms in the narrowest part of the artery and cuts off the blood supply. The term used to describe this condition is a coronary thrombosis. One of the big mysteries still unsolved is what causes this build-up of cholesterol.

20 Years Service



B. J. Faulkner
Eng.Fld. (Refy.)

L. R. Grounds
Aromatics (Refy.)

V. Harris
Eng. Maint. (Chem.)

C. W. Reid
Dist. (Refy.)

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