

NEW CHEMICAL INJECTION FACILITY NOW IN OPERATION AT HOUSTON REFINERY'S BIOFILTER UNIT TO REMOVE ADDITIONAL FILAMENTOUS PARTICLES BY COAGULATION AND SETTLING PROCESSES

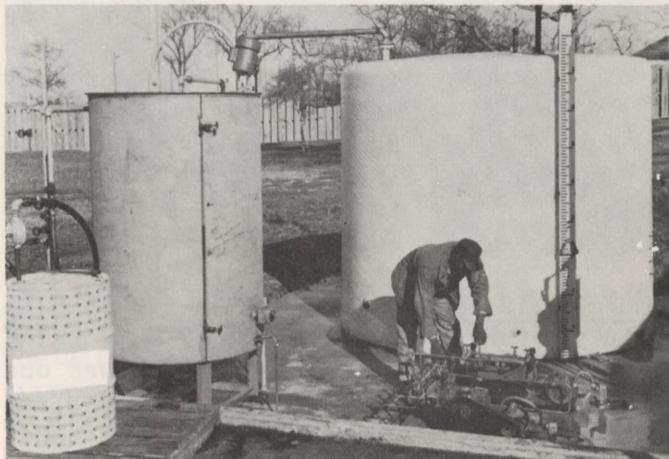
Shell's Houston Refinery has long been a leader in the conservation of air and water resources. The most recent example of the latter is the completion of a new facility this month to further purify the Refinery's effluent waters.

The new facility is a chemical injection unit and is a supplement to the Refinery's biofilter which was completed in 1963. The chemical injection unit is an additional step for obtaining more effective removal of small biological filamentous particles from biotreated water in the clarifier. Alum and other chemicals are injected into the water and the resulting coagulation and accelerated settling action brings about the removal of the particles.

About three months of experimental work was conducted to provide the necessary technical information required for the design of the new facility to provide this

more flexible control of water quality. The new facility cost over \$20,000 to install and when added to the cost of the biofilter and water clarifier facilities, represents an expenditure well over \$500,000.

The biofilter, in continuous operation since its completion, employs a bed of
(Continued on Page 2--See NEW UNIT)



NEW CHEMICAL INJECTION FACILITY near the Refinery's biofilter is now in operation.

PROVIDENT FUND NEWS

Here are the latest Provident Fund valuations:

Equities Fund:

January 5, 1967 - \$1.623
January 20, 1967 - \$1.719

Shell Stock Fund:

January, 1967 - \$63.263

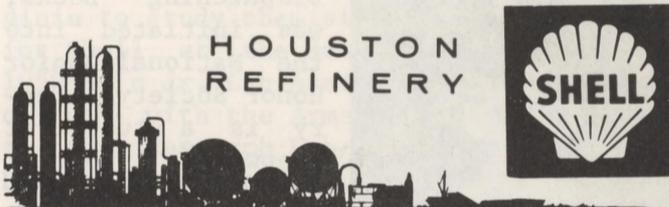
WHAT DO THE CALVES WEIGH? LUCKY REFINER WILL WIN SHELL PRODUCTS FOR RIGHT GUESS

This is it! This is another reminder Refiners will have to get ready for GO-TEXAN DAY at the Houston Refinery on February 23. Remember, that is the day you come to work dressed in your best western gear and compete for prizes by entering the costume contest. Also, each contestant will receive a free western lunch.

To stir up a little interest in the activities and in the Houston Livestock Show and Rodeo, the SHELLEGRAPH will give a Shell VAPONA strip to the Refinery employee (or a member of his immediate



SHELLEGRAPH

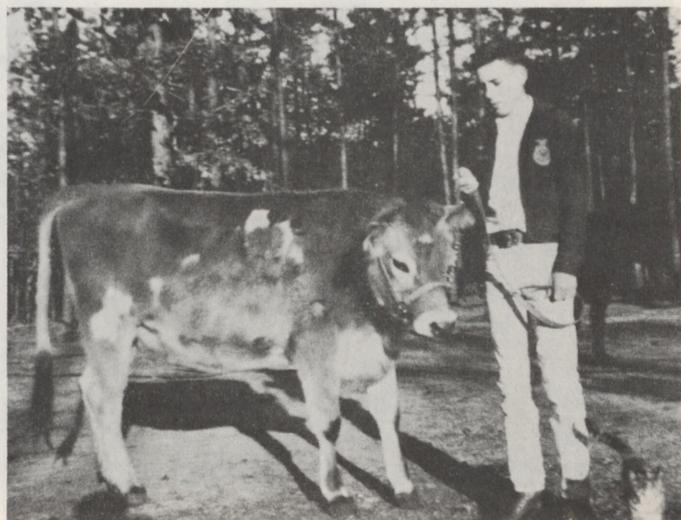


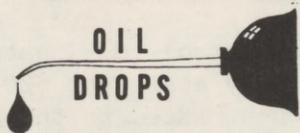
No. 224

Friday, February 17, 1967

family--those living with him at home) who guesses most accurately the combined weight of Donnie Ostermann's (left) and Fred Harris' (right) animals. The pictures below were taken within the last two months, but that is the only hint given.

If you notify the SHELLEGRAPH by 4:00 p.m. Tuesday, February 21, you will qualify to compete for the VAPONA strip. Just jot down your name and combined guess and hope you are right. The winner will be announced in next week's issue of the paper.





NEW FIRE TRUCK --- The South Houston Fire Department recently bought a new \$23,000 pumper fire truck which can pump 1,000 gallons of water a minute. Refinery employee, E. C. SAVELL is Fire Marshall for the South Houston fire fighting group. The emergency vehicle is one of three such trucks available to fight fires in South Houston. He's a Boilermaker No. 1.



GIRL SCOUTS SELLING COOKIES ----- BARBARA BRYAN daughter of Mr. and Mrs. W.E. BRYAN (he's an Operator No. 1 in CC Gas) was one of the top Girl Scout cookie sellers last year at La Porte. She sold over 100 boxes during 1966 and hopes to top this number during the 1967 drive. When she, or other members of the Girl Scouts, comes to your house to sell cookies, buy some--it's for a good cause.



HONOR STUDENT--PERRY HAWTHORNE, son of P. T. HAWTHORNE, who works at the Refinery Dispatching Docks, was initiated into the National Junior Honor Society. Perry is a student at Deepwater Junior High School. In addition to being an honor student he is also an outstanding Scout. He is pictured with the scouting trophy he earned not too long ago.

HOLIDAY - FEBRUARY 22

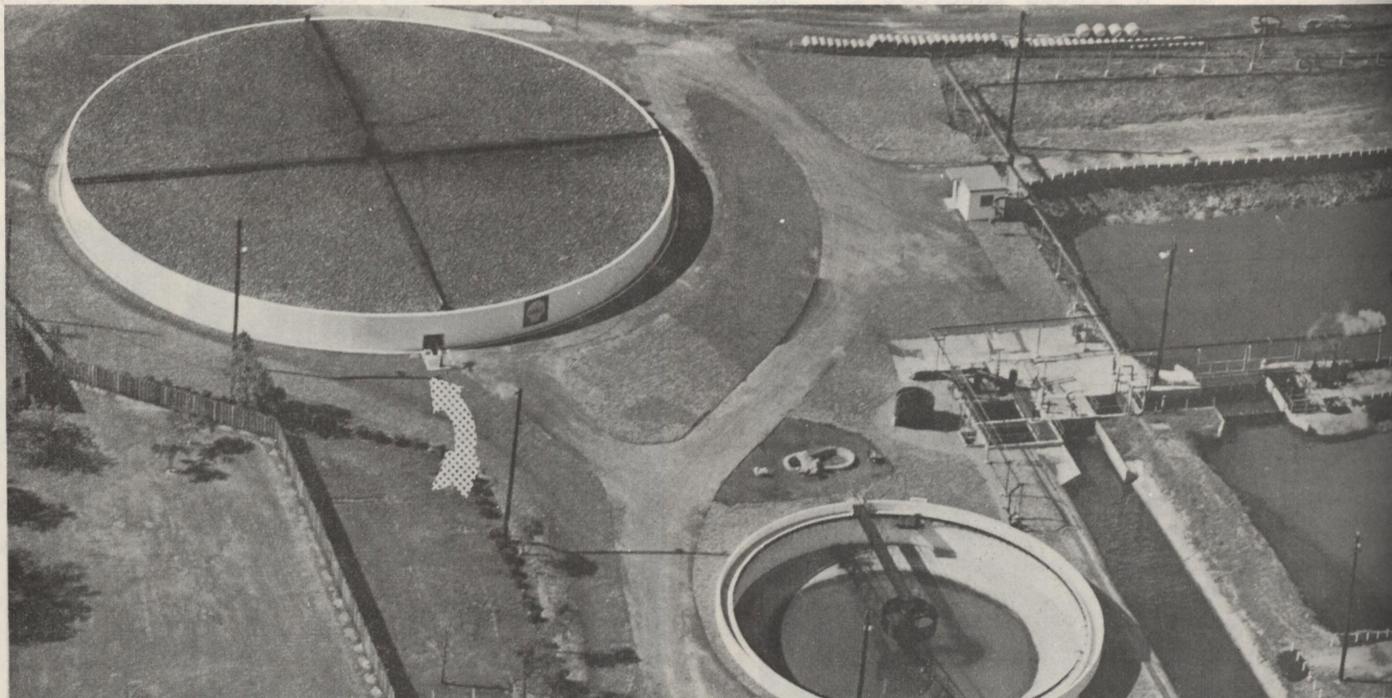
Washington's birthday is being celebrated as a holiday at Houston Refinery on February 22. He was the United States' first President and is called The Father of Our Country. There are several cities in the nation named after him as well as some colleges. His was the spirit and idealism which is still prevalent in the American of today. Mount Washington, highest point in the north-eastern United States, elevation 6288 feet, was also named in his honor.

NEW UNIT -- Continued from Page 1

rocks over which the effluent water is uniformly distributed. This water comes from two settling ponds where additional separation of oil, water, and solids is obtained prior to treatment in the bio-filter. This rock filter contains 190 railroad cars of trap rock and is 172 feet in diameter by 9 feet deep. When the water is spread over the rocks, the purification process is much like that present in a fast moving mountain stream.

After the water runs through the bio-filter, it goes to a circular clarifier where sludge and oil removal facilities provide an additional "trap" before the water is discharged.

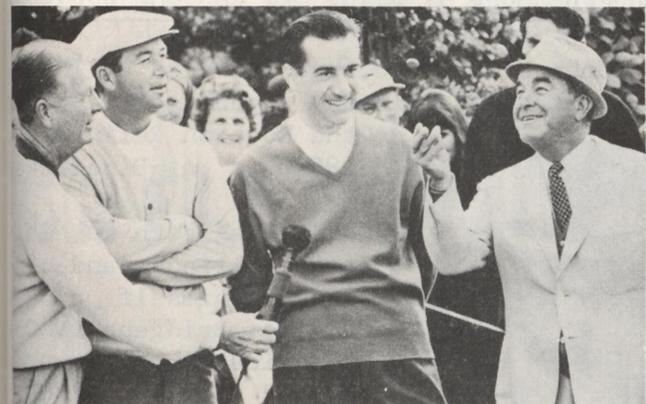
Even though the biologically treated and clarified water is of very good quality without the additional chemical treatment (which the new facility furnishes) the use of the chemical injection process is a further step to provide a significant degree of quality improvement of this water before it enters the Houston Ship Channel. ARROW INDICATES LOCATION of the new unit which is situated by the biofilter, top, Circular clarifier is at bottom and the two settling ponds are at the right.



COUNSEL FOR THE INDIGENT

Although not engaged in active law practice, Hank Lewis was recently appointed as a defense counsel in a felony criminal case. Recent Supreme Court decisions have decreed that every indigent U. S. felony defendant is now entitled to free counsel. Hank was successful in having two felony charges dismissed by the D.A.'s office and a subsequent felony charge no-billed by the Grand Jury. He is Assistant Manager, Engineering Office.

The Houston Legal Foundation has been granted funds by the Ford Foundation to assist in costs and administration of the program. Hank feels that this is a just civic contribution, since, as an attorney, he is excused from jury duty.



KEN VENTURI, FORMER USGA OPEN CHAMPION, and Jean Garaialde, six times winner of the French Open, second and third from left (top photo) watch the toss of the coin determining who will tee off first at the La Boulie Golf Club, Versailles, France, on "Shell's Wonderful World of Golf." Jimmy Demaret, holding microphone, and Gene Sarazen, tossing coin, analyze the play of the two men. The Venturi-Garaialde match will be seen in color, Sunday, February 19, from 2 to 3 p.m., on KPRC-TV, NBC television network. Lower left, part of the attractive French gallery watches Venturi putt; lower right, Garaialde puzzles over a shot on the first green.

**TWO NAMED IN STAFF MOVES AT RESEARCH LAB
KENT AND BUCHHOLZ INVOLVED IN JOB MOVES**

Two Research Laboratory staff changes were recently announced by Research Director, W. A. Bailey, Jr. S. J. Kent, Laboratory Technician was named to the position of Operations Foreman, and H. F. Buchholz, Laboratory Technician, became a Research Technician.



KENT

BUCHHOLZ

Sam Kent joined Shell at the Houston Research Lab in 1945 and transferred to Shell Chemical the following year. He returned to the Research Lab in 1947 and served in several positions. He was named a Sr. Laboratory Assistant in 1948. Sam was born in Reeves, Louisiana, and attended school there. He attended Louisiana State and studied petroleum engineering. Sam and his wife, Ione, reside in Pasadena. They have two children.

Herb Buchholz was born in Baltimore, Maryland, and attended public school there before entering the University of Virginia to study chemistry. He went to work for Shell at the Houston Research Lab in 1950 as a Jr. Lab Assistant. After a tour of duty with the Armed Forces he returned to the Research Lab and became a Senior Laboratory Assistant in 1955. He was named a Laboratory Technician in 1966. He is married and lives in Pasadena. They have two children, Katherine and Martin.

PERSONNEL CHANGES

- W. P. Wiggins - From Gen'l. Hlpr. No. 1, Engineering Field to Pumper/Gauger-Rackman, Dispatching
- H. Carr - From Gen'l. Hlpr. No. 1, Engineering Field to Tester-Starting, Refinery Laboratory
- N. F. Rogers - From Counterman to Machinist No. 1, Engr. Field
- J. Morgan - From Fireman, Cracking to Pumper-Gauger, Lube

SHELLEGRAPH

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TEN TEXAS SCHOOLS RECEIVE EDUCATIONAL AID FROM SHELL COMPANIES FOUNDATION

Ten Texas colleges and universities will receive \$39,000 in educational aid this year as their share of the Shell Companies Foundation, Incorporated's 1967 Budget.

The Foundation, which receives its funds from the Shell Oil Company and its subsidiaries, announced a record-high 1967 budget of \$2,607,950. Of this total, \$1,833,750 is in aid to education; the remaining \$774,200 will be donated to charitable and public service organizations.

The ten Texas schools receiving aid from the Foundation in 1967 are: Rice University with three Shell Grants totaling \$22,500; University of Houston, Texas A & M University, and the University of Texas receiving three Shell Aids valued at \$15,000; and Shell Assists (each worth \$1,500) to Austin College, Houston Baptist College, Southern Methodist University, Texas Christian University, Texas Wesleyan College, and St. Thomas University.

Shell Grants, each worth \$7,500 are made to institutions for graduate teaching and research and for general support. Shell Aids are used to support the training of teachers or to improve curriculum or instruction as well as for student aid, special summer projects, or visiting lecturers.

The Assists are made to institutions to help with little things in the professional development of faculty members that are seldom covered by major grants.

For the first time the Foundation has established a new program to aid privately controlled junior colleges and four-year colleges seeking accreditation. Called Shell Supports, as many as 50 institutions nearing accreditation may receive grants of \$1,500 each for use in the self-study required for accredited status.

CLASSIFIEDS

FOR SALE

1962 Rambler - 4-Door. Air-conditioned. \$550.00
Telephone - OR-2-2901

Studio Couch - Good condition. \$25.00
Telephone - MI-3-4297

1965 SS Chevrolet Impala. Hardtop, air-conditioned, 4-speed transmission. \$1995.00
Telephone - GR-9-2886 (Credit Union)

Mustang Special 1966 A/C Automatic with floor shift; 284 cubic inch. Equity - trade or sell reasonable.
Telephone - GR-2-2688

SAM VAUGHAN JOINS RESEARCH LAB'S STAFF ASSUMED LABORATORY ASSISTANT POSITION

Sam Vaughan, Special Tester at the Refinery Laboratory has joined the Houston Research Laboratory staff as a Laboratory Assistant effective February 6, announced Research Director, W. A. Bailey, Jr.



Sam joined Shell in 1954 as a General Helper in the Engineering Field Department and worked in several jobs in the Refinery Laboratory before becoming a Special Tester in the Refinery Lab in 1963.

He grew up in Cold Springs, Texas, and attended public school there. He attended Sam Houston State College in Huntsville. Sam is married, has two children, and lives in Deer Park.

JOHN L. HAYWARD, RETIRED PIPEFITTER, DIES WORKED OVER 21 YEARS AT HOUSTON REFINERY

John L. Hayward, age 74, died following an extended illness. John retired from the Houston Refinery in 1952 as a Pipefitter No. 1.



He was born in Chicago, Illinois and considered himself a native of Bridgeport, Connecticut where he grew up and attended school. He lived in Houston about 41 years. He first joined Houston Refinery in 1929 as a

Painter in the Engineering Field Department. Working in several positions during the next years he became a Pipefitter No. 2 in 1943 and in 1947 he became a Pipefitter No. 1.

Funeral services were at graveside in Huntsville, Texas. He is survived by his wife, Lena.

FOR SALE

One set of World Book Encyclopedias - 1962 Edition complete with year books to date. Bookcase (blond) with sliding glass doors. Like new. Both for \$125.00. Lounge Chair with matching Ottoman. Aqua color plastic. Excellent condition. \$30.00
Telephone - HU-6-0729

1963 T-Bird Landau - Black and loaded. Perfect condition. \$1600.00
Telephone - GR-3-3249

WANTED

9' 10" Surfboard
Telephone - GR-9-3851