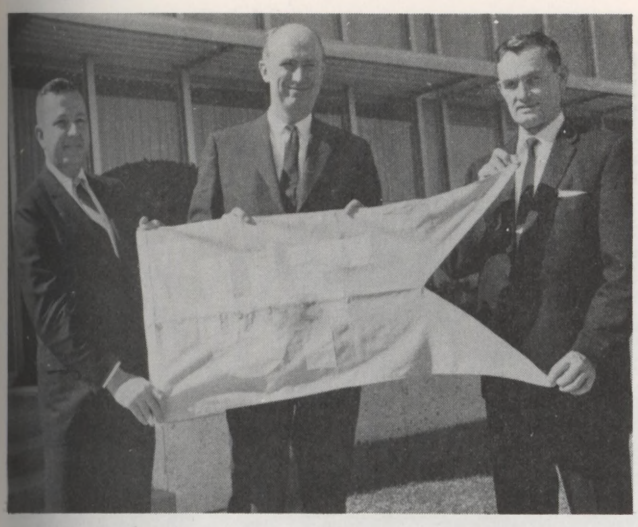
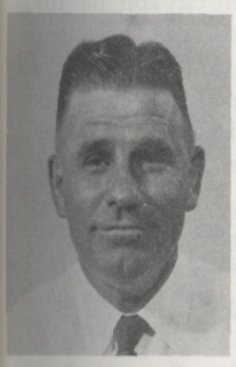


UNITED FUND BANNER---Houston Refinery employees were recently recognized for their contributions during the 1968 United Fund Drive held last fall. The contributors were awarded the UF Banner being held above by, from left to right, E. H. Mergens, Manager Distilling; J. G. Pratt, Refinery Superintendent; and A. C. Simmons, Operator No. 2, Lubricating Oils. The banner was accepted on behalf of the Refinery employees by Simmons and Mergens, who stood in for T. S. Lighthouse.

E. W. HERRINGTON RETURNS TO REFINERY AS MATERIAL CONTROL SUPERVISOR



E. W.
HERRINGTON

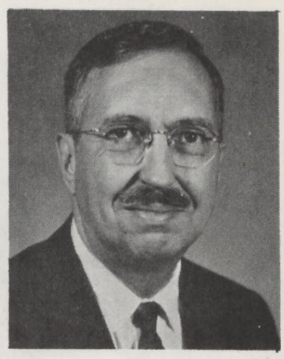
E. W. Herrington, Buyer - Purchasing at Shell Chemical Company's Houston Plant, has been named Material Control Supervisor - Refinery Stores. In this capacity, he will supervise the overall Stores function and material delivery coordination.

Also, E. E. Craig has returned from his temporary Purchasing assignment to Refinery Stores as Stores Representative. He will undertake special assignments for both Oil and Chemical in the areas of stock analysis, coordination of inventories and material disposal.

Fred Gerbode has also returned to Chemical Purchasing, effective with these reassignments.

BILL BELL TO TRANSFER TO NEW YORK POSITION JOHN HARKNESS NAMED PROCESS SUPERINTENDENT

BELL



HARKNESS

B. C. Bell, Process Superintendent, will be transferred to Shell Chemical Company as Manager, Engineering-Construction (New York), effective April 1, 1968. In this position, he will administer all of the Chemical construction projects other than those at the Houston Plant.

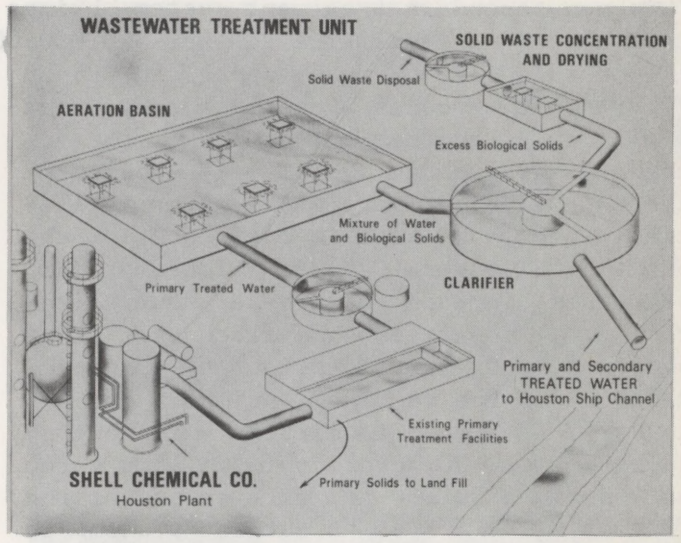
John B. Harkness, Manager Dispatching,
(Continued on Page 3 - See BELL)

SHELLEGRAPH

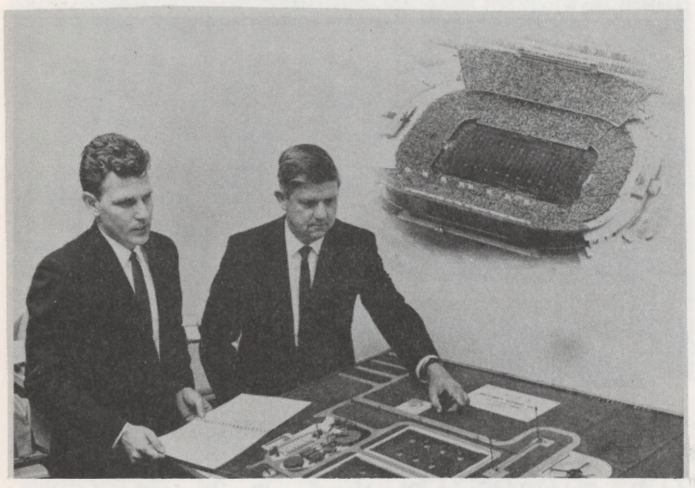
HOUSTON REFINERY

SHELL

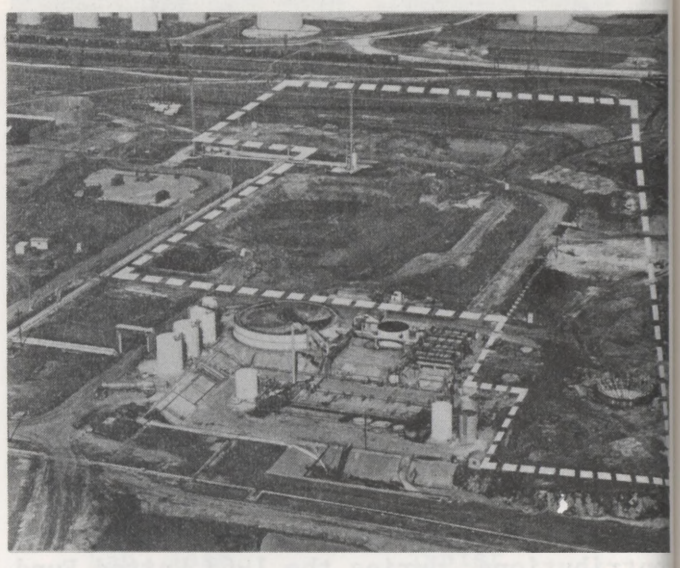
No. 276 Friday, February 16, 1968



SHELL CHEMICAL COMPANY'S NEW $4,000,000 WASTE WATER TREATMENT SYSTEM utilizes two large aeration basins where primary treated water mixes with biological cultures which consume dissolved organic waste water materials. Seven aerators agitate the water in each basin providing increased absorption of oxygen necessary in carrying out the biological treatment process. From the aeration basins, the waste water flows to clarifiers where it undergoes flocculation and clarification of suspended solids resulting from the biological process. Clean, treated water is then discharged into the Houston Ship Channel. Solid sludge materials are concentrated, dried and disposed of at the plant as land fill.
(See Page 2 for Complete STORY.)



TWIN FOOTBALL-FIELD SIZED AERATION BASINS lie at the heart of Shell Chemical Company's new $4,000,000 waste water treatment system currently under construction at the firm's Houston plant. Shown here with a model of the huge facility are, from left, C. E. Bertolini, Engineering Manager, and W. W. Wright, who is in charge of the plant's pollution control facilities. The new system brings the Shell Chemical Plant's investment in water and air pollution abatement facilities to over $10,000,000 since 1951.



SHELL CHEMICAL COMPANY'S new $4,000,000 activated sludge waste water treatment facility will occupy a large portion of plant site area, as indicated by the broken line. This huge addition, designed to treat over 6,500,000 gallons of waste water each day, will supplement the existing primary treatment facilities, foreground, at the Houston Chemical Plant. Excavation for two large water treatment aeration basins, center, is currently in progress.

SHELL CHEMICAL BUILDS MAJOR WASTE WATER TREATMENT FACILITY

Shell Chemical Company announced recently before the Texas Water Quality Board in Austin that construction is under way on a huge secondary waste water treatment facility at its Houston Plant. This new modern facility, representing an investment of over $4,000,000 and annual operating costs of $800,000, is being built by Hydrocarbon Construction Company. The project is scheduled for completion during early 1969 and will enable the plant to comply with the waste water treatment permit granted by the Water Quality Board. This new secondary treatment system brings the plant's investment in water and air pollution abatement facilities to over $10,000,000 since 1951.

According to Company spokesman R. L. Robertson, Process Superintendent, at Shell's Houston Chemical complex, the secondary treatment system will supplement the extensive primary waste water facilities which have been in operation at the plant for several years. These primary processes include acid-base neutralization, oil separation and flocculent aided settling and air flotation of suspended materials. The combined primary and secondary treatment facilities will occupy approximately 30 acres having a land value of about $600,000 and will be one of the largest waste water treatment systems in the state.

The new secondary facility utilizes activated sludge processes as a biological system in which microorganisms consume, as part of their food requirements, dissolved organic materials which may be present in waste water discharged by the plant. This activated sludge system duplicates a natural biological system which purifies streams and rivers; however, the process occurs in man-made equipment under controlled conditions to allow for efficient and high rates of purification.

At the heart of the new system are two large aeration basins where primary treated water mixes with biological cultures which consume the organic materials dissolved in the waste water. Seven aerators agitate the water in each basin providing increased absorption of oxygen necessary in carrying out the biological treatment process. After a retention period of about twenty hours in the aeration basins, the waste water flows to clarifiers where it undergoes further flocculation and clarification of suspended solids resulting from the biological purification process. The clean, treated water is then discharged into the Houston Ship Channel. Solid residual materials are concentrated, dried and disposed of at the plant as land fill at an average rate of 15,000 pounds each day in addition to 40,000 pounds per day from the primary treatment.

Designed by Roy F. Weston, Inc., nationally recognized water treatment specialists, the new system will be able to treat 6,500,000 gallons of waste water each day. The system design is based on information obtained through extensive laboratory testing and treatability studies, which were initiated in the Fall of 1964, and represents an effective long-range water pollution abatement program. Such a program is a direct result of the mutual cooperation and guidance reflected by the Texas Water Quality Board headed by J. G. Moore, Jr., Chairman, and H. C. Yantis, Executive Director, and Shell Chemical Company in their efforts to minimize air and water pollution.

GO-TEXAN DAY
COSTUME CONTEST RULES

Categories

1. Most Authentic - judged on a person's realistic western appearance.
2. Dude - judged on a person's most unrealistic costume; e.g., "drugstore cowboy" costume.
3. Most Unusual - judged on original ideas and innovations.

Prizes

1. There will be two winners in each category - one man and one woman - who will each receive a $15.00 gift certificate from Oshman's in Houston. In other words, there will be six $15.00 winners.
2. Each entrant will receive a free western lunch, served in the Research Meeting Room immediately after the contest.

How To Enter

1. Register for only one of the three categories at one of the following three registration stations:
   a. Receptionist in Administration Building lobby
   b. Receptionist in Research Building lobby
   c. Secretary in Engineering Field Office Building
   If you are unable to register in person, write your name, category and department on a slip of paper and mail same to one of the above registration stations.
2. Come to the Research Meeting Room in Research Building on February 21, 1968, at 11:45 a.m. to be judged.
3. You must register by 1:00 p.m., February 20, 1968.

Judges

1. Last year's costume contest winners.

BELL - Continued from Page 1

will be appointed Process Superintendent replacing Bell.

Bill Bell started his Shell career at the Houston Refinery in August, 1949, as a Junior Engineer in the Engineering Department following completion of his B.S. degree in mechanical engineering from Oklahoma State. After a variety of technical assignments in Engineering with an interim assignment as Technologist in the Aromatics Department, he was transferred to Head Office Manufacturing Engineering in July, 1958. He returned to Houston Research as Chief Research Engineer and was named Manager Engineering Field in October, 1964. He was appointed to his present position as Process Superintendent in July, 1967.

John Harkness, who holds a Ph.D. in chemistry from Harvard University, was employed by Shell in Head Office Manufacturing, St. Louis, as a Junior Technologist in July, 1937. He was transferred to the Manufacturing Research Laboratory at Wood River Refinery in September, 1940, as a Senior Research Chemist, and in August, 1943, he was named Chemist in Charge of the Experimental Laboratory. He was transferred to the Houston Refinery in September, 1944, as Manager Refinery Laboratory and was named to his present position, Manager Dispatching Department, in January, 1962.

VISIT PORTUGAL TOMORROW ON "SWWG"---Britain's Peter Alliss, looking rather displeased with his drive, returns his club to the caddy as U.S. professional Doug Sanders studies the fairway during their match at the Penina Golf Course, Algarve Province, Portugal, on "Shell's Wonderful World of Golf." The match on this forest course, built on 350 acres of rice paddies and dead flat terrain, will be televised in color over the NBC network on Saturday, February 17, from 4 to 5 p.m. on Channel 2. It is one of 11 matches, featuring top American and foreign golfers competing on outstanding courses, televised each Saturday afternoon through March 30.

DON'T MISS THIS SIGHT THIS YEAR---If you did not attend the Houston Livestock Show and Rodeo last year you missed the "western spectacle" above. This show of horsemanship was one of the highlights of the rodeo - In addition to this portion of the show, Refiners who attend the rodeo on the nights of Friday, February 23 or Sunday, March 3, 1968, will have a chance to see the Refinery sponsored calves in the Calf Scramble being caught. Make your plans now to attend one of the performances and join in the fun.

CALF SCRAMBLE!---Every year the Calf Scramble is one of the most enjoyable parts of the Houston Livestock Show & Rodeo. In this photo taken in 1967, Gary Keeth is shown struggling with the Houston Refinery sponsored calf. A similar scene will be repeated during this year's rodeo performances.

FOR SALE

1963 Super Spt. Chevrolet. Clean, loaded. Will take a clean '55, '56, or '57 car as trade-in.
Telephone - GR-1-3427

1965 Volkswagon. Excellent condition; good tires, radio, clean.
$995.00
Telephone - 946-1925

1½ ton Freidrich Air Conditioner - $75; 36" gas range - automatic oven and grill - $25.
Telephone - HU-5-3064 after 6 p.m.

1964 Ford Country Sedan, V8, automatic, air, tinted glass, white sidewall tires.
Telephone - GR-9-1295 or GR-9-2886

1952 Chevy, new '54 engine.
$100.00
Telephone - GR-9-1295

WANTED

Single Disc for Farmall B Tractor.
Telephone - GR-9-1295

CLASSIFIEDS

FOR SALE

5-Room house in Deer Park. 205 E. 2nd St.
$400.00 down/$62.00 per month.
Telephone - GR-9-2241

1 small M. Ward utility trailer with galvanized bed 4' x 6'.
$70.00
Telephone - MI-3-4106

Upright Singer vacuum cleaner and attachments.
Telephone - MI-5-1462

Wife's car - White 1961 Cadillac Sedan Deville - Loaded with extras - 71,000 miles. New tires and brakes - Original owner. $875.00 - See at 9246 Memorial Drive or call OV-2-2288

Refrigerator. Ideal for fishing camp or apartment - $15; 3-ton central air conditioner condensing unit only - $50.
Telephone - GL-3-0231 after 4:30 p.m.

3/4 ton LWB Ford Styleside Pick-Up. 6 cylinder, 5 excellent 6 ply tires.
$750.00
Telephone - 946-1867

Beautiful Lake View Lot on lake L.B.J. "Blue Lake Estates Addition", 9 miles west of Marble Falls.
$2100.00
Telephone - GR-2-1726

Solid Oak Dinette with 4 matching chairs. Good condition.
$25.00
Telephone - GR-2-1726

21" Sears black and white TV console on swivel base; new picture tube, good working condition, with antenna.
$75.00
Telephone - GR-2-1726