

# Shellegram

Deer Park Manufacturing Complex

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Vol. 42, No. 31

## Storm Water Impoundment Project Completed

About a year ago construction was initiated to build the refinery storm water handling project. It was designed to satisfy federal regulations effective July 1, 1977, requiring treatment of all storm water, which comes in contact with process materials and the ballast water from ships using our docks.

The \$20 million storm water handling project has two primary purposes: to segregate as much rainwater as possible from any source of contamination and to impound all of the contaminated water for treatment in the effluent treaters.

With these goals in mind, John

Nepveux was assigned as project engineer, responsible for the construction. Working with him were process engineers Lynn Case and Dan McNeill who feel that John did a fantastic job of getting the storm water handling project completed by the July 1 deadline.

A 45-million gallon storm water impoundment basin covering seven acres in the west property flare area was constructed. In order to lift contaminated water from the sewer into the impoundment basin, the 8th Street lift station was built utilizing a 2,300-year-old concept conceived by the

Greek mathematician and inventor, Archimedes. Although Archimedes' screw concept has been used by other companies in various parts of the world, this is the first time for Shell.

When viewed from the street which

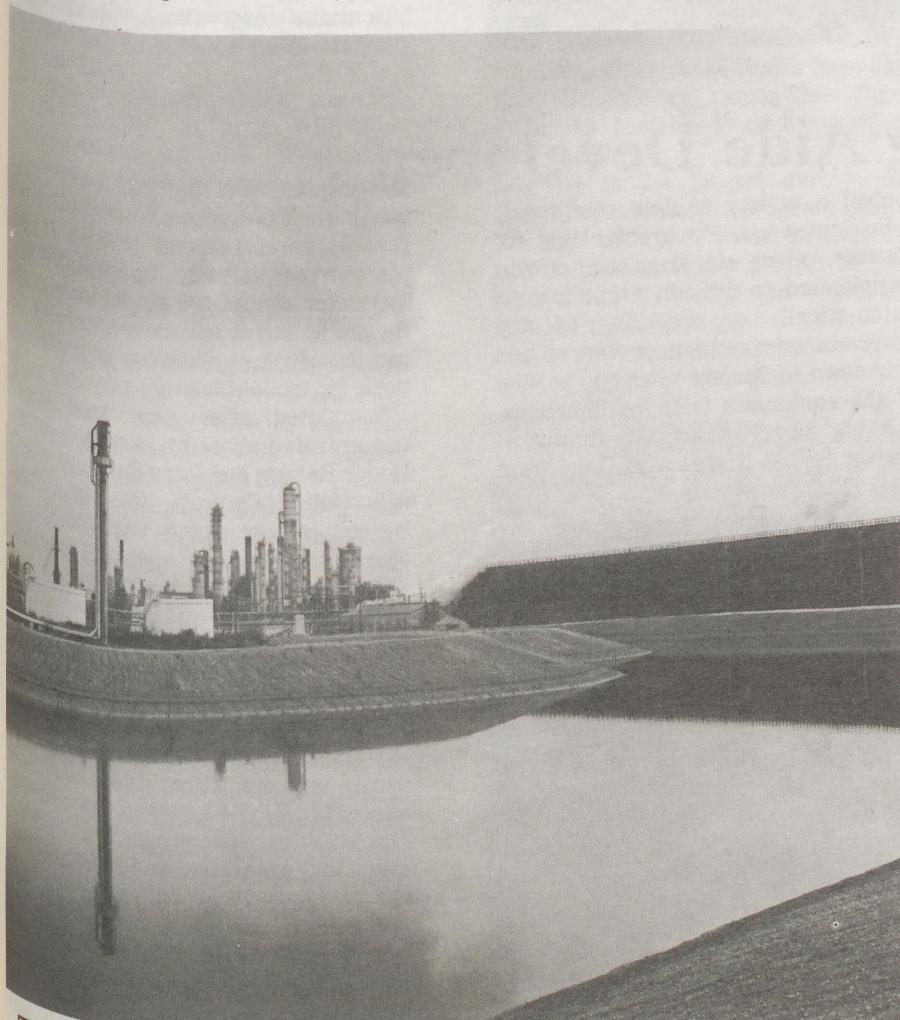
The recently completed storm water handling project is just one of several efforts made by Shell to improve the quality of water put into the Houston Ship Channel.

And the effort is paying off. For example, Texas Water Quality Board figures show that in 1968 the percentage of the annual average of total pounds per day of biochemical oxygen demand loading in the Houston Ship Channel was 31 percent for municipal and 69 percent for industrial. In 1976 it was 79 percent for municipal and 21 percent for industrial. During the same time the annual average for both municipal and industrial went from 460,000 pounds per day BOD loading to 87,795. That represents an overall reduction of 81 percent.

Aside from the statistics, there is ample visual evidence of the improved water quality of the Houston Ship Channel. Fish, shrimp and crab congregate at the docks on a regular basis.

passes it, the lift station appears quite ordinary, but a closer inspection reveals two gigantic screw pumps. These pumps, measuring nine feet wide and 55 feet long, will lift 58,000 gallons per minute of water from the sewer into the impoundment basin.

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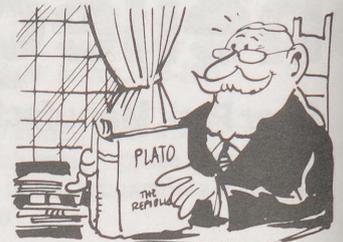


The seven-acre impoundment basin appears as a tranquil lake bordered on one side by a cooling water tower and on another by the west property flare area.





.. There was entertainment galore at the Medical Department safety party. Josi Harrison sang African folk songs; E. "Pack" Pachhofer and date, retiree Lester Wallace, did the fox trot; while Rita Avery and Lydia Miller, Warren and Cindy Davis enjoyed watching. Dr. Miller has promised to play the piano at their next gathering.



It's always good psychology to ask yourself: "How can this be done better?" That way you'll not only be improving whatever you're working on, but you'll be improving yourself as well. And it's never too late to begin. At the age of 92, Justice Oliver Wendell Holmes read Plato to improve his mind.

### Shell Wives Luncheon

All Shell wives are invited to hear Shell president John Bookout speak at the October 7 Shell Wives Luncheon. The meeting will begin at 11:30 a.m. with cocktails at the River Oaks Country Club. Lunch is planned for 12:30 p.m. and will cost \$8.50.

To make reservations, please call Ethel Horst on 464-4504 by October 1.

## Graphic Training Aide Developed

About a year ago Shell recognized that a graphic training aide (such as the simulator-trainer pictured above with engineer Gary Smith) was needed to teach operating and maintenance people how to utilize the programmable logic controllers (PLCs) controlling many of the processes in the current expansion.

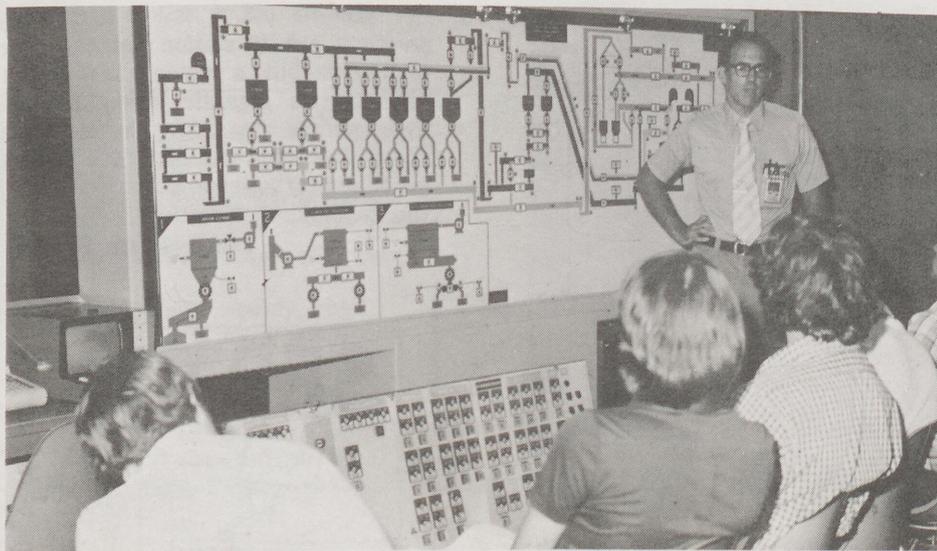
PLCs resemble a small computer and

control a variety of field equipment, including pumps, conveyors, elevators, blowers, valves, etc. They can perform complicated or difficult valve lineups automatically or according to any programmed operation, or start up and shut down equipment when any portion of the equipment train malfunctions.

A big advantage of the simulator-trainer is that it uses a PLC program

and graphic panel that is just like those used in the plant. A computer makes the graphic panel respond just as if the plant were actually operating. The instructor can let the students operate the process as it normally would or he can introduce any number of malfunctions for troubleshooting practice.

Completed after nine months of concentrated effort by Dennis Bender, Hodge Raburn and Gary Smith working with United Controls, the simulator-trainer is now being used to teach operators in two PLC operated systems - the Resins flaker control room and BPA Shipping. Thirteen more PLC systems are planned for the simulator-trainer with over 200 people participating in the training. Among them will be operators from the Resins ERU-5 and -6, the Central Power Station demineralizer filter and Special Products EPON-1. Also, craftsmen (such as instrumentmen and electricians), engineers and inspectors involved with PLCs will be trained in the art of troubleshooting, as the system allows setting up malfunctions so trainees can observe what then happens to the process. The simulator also can be used to de-bug new plant programs before putting them into operation.



Gary Smith explains how the simulator-trainer can be used for troubleshooting.

# OP-III Rendering Presented To MP



While work on the real thing continues in the background, Shell Development artist Bob Endler presents a rendering of a completed OP-III to major projects superintendents Jim Bagley and Hoss Bergeron. Even though work on the new olefins facility will not be completed for more than a year, Endler was able to do the painting of the finished product by using engineering drawings and a model of the new unit.

Want to get a sneak preview of the DPMC's new olefins plant, OP-III? You can next week when a rendering of OP-III will be on display Tuesday and Wednesday in the Chemical Cafeteria and Thursday and Friday in the Refinery Cafeteria.

The 40 by 60-inch painting was done by Bob Endler, an artist with Shell Development at the Westhollow Research Center. It shows a view of what OP-III will look like from Highway 225 just east of the railroad overpass.

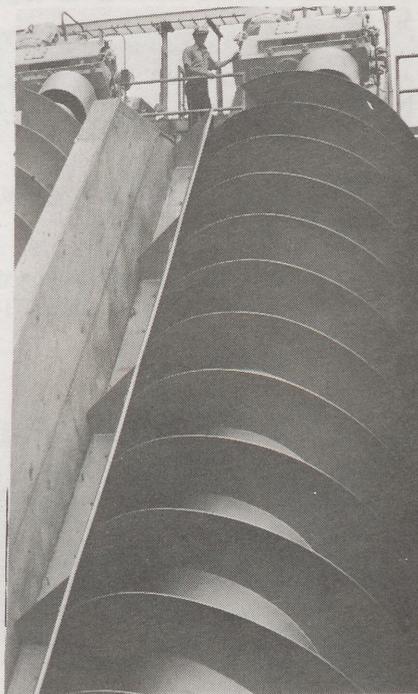
The rendering will be used in the Complex's community relations activity. A photograph of it will be used in a newspaper ad with a headline reading, "A Sneak Preview of Shell's New Skyline." That ad will run in Deer Park, Pasadena and La Porte newspapers next month.

OP-III is the largest unit in the Complex's expansion program which has been underway since 1974. OP-III will be the last major project in that program to be completed when it's finished in early 1979.

# Impoundment Project

(Continued From Page 1)

Every refinery department got involved with this project, but it was Dispatching with its numerous tanks which required the greatest degree of involvement. Engineers working on the storm water handling project calculated that 70,000 feet of piping was installed in Dispatching alone.



Dan McNeill stands atop one of two screw-shaped pumps built to raise water from the storm sewer into the impoundment basin.

## SCORA News

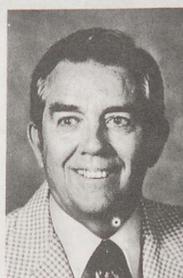
Las Vegas Night will be held August 27 at 8:00 p.m. at the Deer Park Firemen's Hall. Tickets are \$2 each for adult SCORA members only; no guests. Ticket sales are limited to 200 guests. There will be free beer and soft drinks. Prizes will be raffled off using play money winnings.

Mixed volleyball sign-up deadline is August 25. Send your name, address and office telephone number to Tom Meyer, UCC Building, room 108.

Delta Downs reservations are due by August 25. Send your reservations and deposit (\$15 each) or full amount (\$30 per SCORA member; \$35 per guest) to Melba Hall, General Services-Refinery. The trip is planned for September 17 and 18.

Two trips to Delta Downs will be raffled off by SCORA. Tickets cost \$1.00 each and can be purchased from any ticket representative or board member. Drawing will be held September 9.

## Service Anniversaries



35 Years  
E. J. Davidson  
Maint. South



30 Years  
D. V. McKinney  
Purchasing



30 Years  
W. N. McKnight  
Maint. North



30 Years  
O. A. Samson  
Major Projects



25 Years  
W. V. Callaway  
Aromatics-East



25 Years  
R. G. McCord  
Maint. North



25 Years  
R. J. Pest  
Environmental Engineering



25 Years  
J. L. Werner  
Training

# Classifieds

## FOR SALE

1974 Volvo 164E 4-door sedan, loaded, 18,000 miles. \$5,000. 649-8103 after 5

Male Doberman, 1 year old, AKC registered. 471-2592

1975 Yamahomx mx motor cross. \$350. 479-6613

3-1-1 Pasadena, beautiful, fully shaded backyard, covered patio, ideal to schools and shipping. 473-4336

1971 Dodge Cornett S.W. 4-door, radio, A-C, PS. Best offer. 923-6885

Amati trumpet (Bruno) and case, used 5 months, excellent condition. \$125. 771-9886

12 cu ft. GE refrigerator, coppertone, good condition. \$50. Craftsman 3.5 hp reel lawnmower. \$30. Walnut dining table with 2 leaves. \$15. Walnut hexagon end table, Mediterranean style. \$25. Mediterranean lamp, gold scroll base, 3-way light. \$15. Glass coffee table with 2 end tables, gold wrought iron bases, perfect condition. Paid \$550. Sell \$250. 479-3148

Coppertone Admiral built-in dishwasher, 3 years old, excellent condition. \$100. 473-2596

1975 Jeep W-5, low mileage, soft top, excellent condition. Must sell. 458-3985 after 5

Venture Buckingham pop-up camper by Starcraft, sleeps 6, stainless sink and stove, butcher block tops, ice box, closet, shadow box awning, used 4 times. \$1,650 firm. 944-4765

Mediterranean queen size bed, triple dresser, 2 mirrors, chest, nite stand. Serta mattress and box springs only 2 years old, very good condition. \$300. 479-9927 after 5

Queen sleeper sofa, new condition. \$200. Magic Chef gas range. \$75. 452-2201

1975 Toyota PU, LWB, air, AM-FM cassette, C.B. (Teaberry), cruise control, tool box, new steel belted radials, Zie Barded, 3,100 miles. \$3,200. 694-5297

Pasadena 3-bedroom house, detached garage, corner lot, central air and heat. 479-5196 or 473-9715

1975 Duster, 6 cyl., AM-FM, 10-mph. \$3,000. 479-1039

1973 Mercury Montego Brougham, air, auto, PS, AM-FM stereo, new tires, vinyl top, sharp, see at Shell Credit Union-Deer Park. \$1,875. 474-3370

1971 K-1 Honda 750cc, engine rebuilt in June. \$665. 926-9787

36" aluminum screen door with latch closer. \$22. 433-0231

## FOR LEASE

3-2 Middlebrook house with drapes, fireplace, fenced. 334-2009 after 6 p.m.

## FOR RENT

3 bedroom Deer Park house close to Shell and schools, carpet in living room, fenced, 2 windows units, stove, lots of trees. 479-8238 evenings.

## WANTED

Gasoline powered lawn vacuum cleaner in good condition. 643-3656

## FOUND

Safety sunglasses with side guards in Xerox room. Claim in room 151 Refinery Administration Building. Gold wire framed glasses in colorful case. Two keys in black leather case. Two GM keys on wire. Silver Timex. Claim in room 151 of Refinery Administration. Last reminder on the following items which have been on hand for the past six months: Maroon brown-beige-blaze plaid jacket; leather cigarette holder, Case 4" pocketknife, glasses, keys, pipe watch, charm with picture, wooden beads on string.

## Welcome To Deer Park Manufacturing Complex



Rock Johnson  
General Helper  
Maintenance North



John King  
Proc. Manager  
Butadiene OP-III



W. W. Kirby  
General Helper  
Maintenance South



George Kleeman  
Staff Engineer  
Proc. Eng. OP-III



Mike Knott  
Pipefitter D  
Maintenance South



Jeff Kyne  
General Helper  
Maintenance South



John Jefferson  
Emp. Relations Rep.  
Ind. Relations



David Jerger  
Engineer  
Intermediates



Samuel Lacy  
Pipefitter D  
Maintenance South



Bobby Laird  
Pipefitter D  
Maintenance South



Grant Lenued  
Sr. Purchasing Asst.  
Purchasing



Tom Leroux  
Pipefitter D  
Maintenance South

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Published weekly by Shell's Deer Park Manufacturing Complex for its employees and pensioners. All inquiries should be addressed to Shellegram, Shell Oil Company, P. O. 100, Deer Park, Texas 77536.

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