

MANAGEMENT COURSE LECTURE--R. J. Fikar takes a turn at conducting studies during the 12th Fundamentals of Management Course.

Will Expansion Ever End?

See full report on Pages 2 & 3.

SHELL PIPE LINE TESTS CHEMICAL HERDER ON SIMULATED OIL SPILL AT REFINERY DOCKS

A breakthrough in oil spill containment was demonstrated last Friday by Shell Pipe Line Research and Development Laboratory personnel at the Refinery docks.

The demonstration, attended by representatives of Shell Oil, Shell Pipe Line, Shell Chemical, Texas Water Quality Board and Harris County Health Unit officials, involved the use of a biodegradable material which acts as a chemical herder to contain the oil on the surface of the water and allow for easier cleanup.

Under the direction of J. P. Fraser and P. R. Scott of the SPL Lab, five gallons of crude oil were poured on the surface of the

# SHELLEGRAPH



No. 6

Friday, February 6, 1970

R. J. FIKAR, ASSISTANT MANAGER, PERSONNEL, ATTENDS 12th FUNDAMENTALS OF MANAGEMENT COURSE

R. J. Fikar, Assistant Manager, Personnel, and 21 other young managers and staff members from Shell locations across the country have begun the decade with a hard look at their own self-development. The group participated in Shell's Twelfth Fundamentals of Management Program January 18-30 in Tuxedo Park, New York.

The program provides understanding of what it takes to be a successful manager, including the application of basic management principles. Other topics discussed include employee motivation, business writing, economics and business finance.

The program was begun in 1965 and has three phases:

- o Individual study--Participants are furnished with selected reading materials several weeks before the course begins.

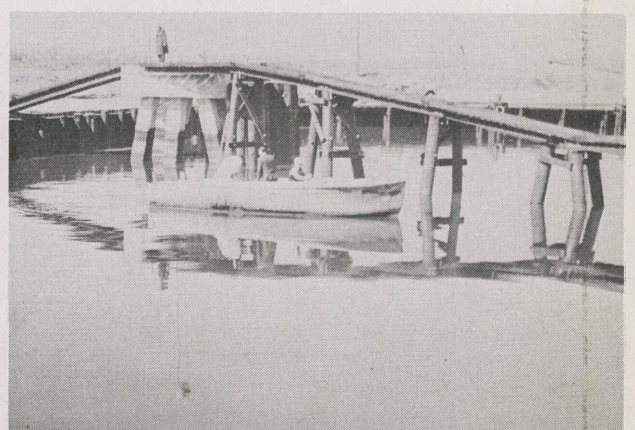
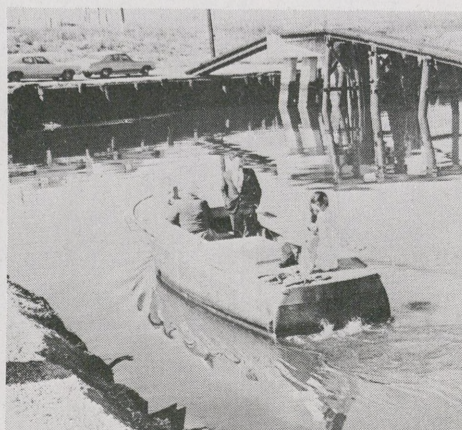
- o Residential course--This involves two weeks of intensive study of the important aspects of a manager's job.

- o Self-development plan--Each participant develops a plan, consisting of specific activities and study, to accelerate his self-development during a two-to three-year period.

water. Then, the chemical, developed by Shell, was sprayed in the area of the simulated oil spill. As the group of 12 visitors and Refinery personnel watched, the herder began crowding the oil spill until the oil accumulated into a ribbon-like streak on the surface of the water. Only about one quart of chemical was used in the demonstration.

The herder will contain the oil for about several hours allowing for skimming or cleanup.

The compound will continue to be tested, and Shell personnel are enthusiastic of the oil spill cleanup possibilities with this unique chemical.



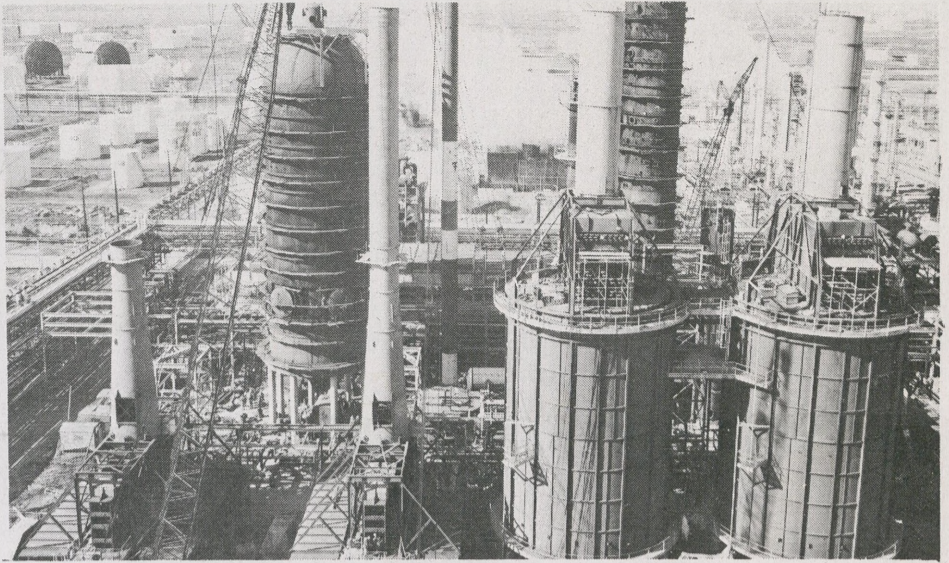
AT HERDER TEST--Shell employees and visitors watched as chemical herder was sprayed around

simulated oil spill. The oil accumulated into a ribbon-like streak with a small application.

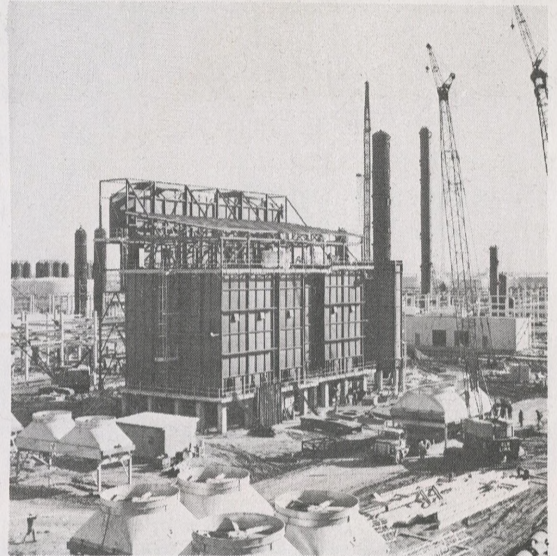
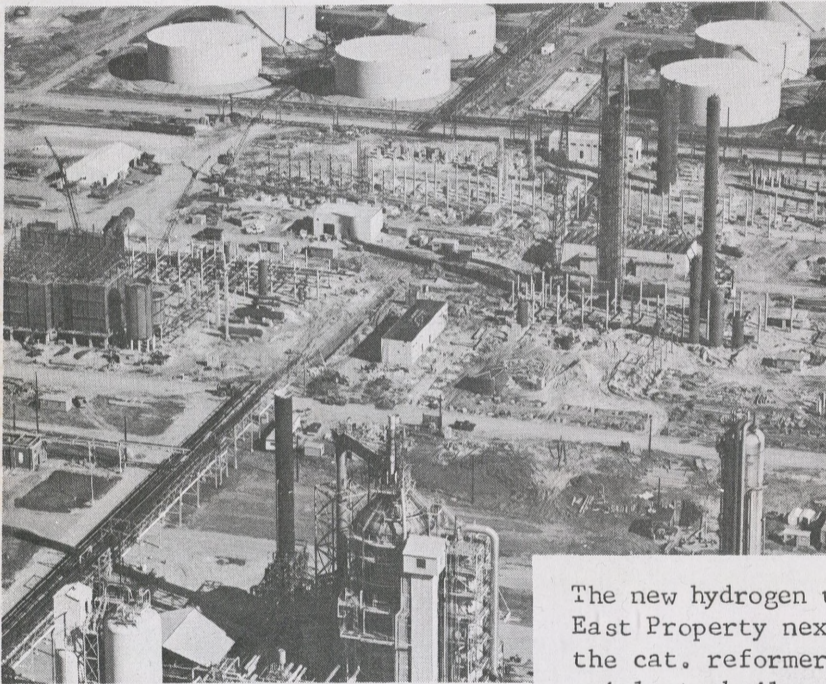
IN 1969, THE WORD WAS EXPANSION AT HOUSTON REFINERY...

The year 1969 was one of developing major expansion at the Houston Refinery as work continued on the three-year project to bring the daily crude oil intake of the plant to 255,000 barrels.

New facilities under construction include a 160,000-barrel-a-day distilling unit with an integrated vacuum flasher, a naphtha hydro-treater, and naphtha fractionation, a 25,000-barrel-a-day hydrocracker, a 75-million cubic-foot-a-day hydrogen plant, a 36,000-barrel-a-day catalytic reformer, and a saturates gas plant.



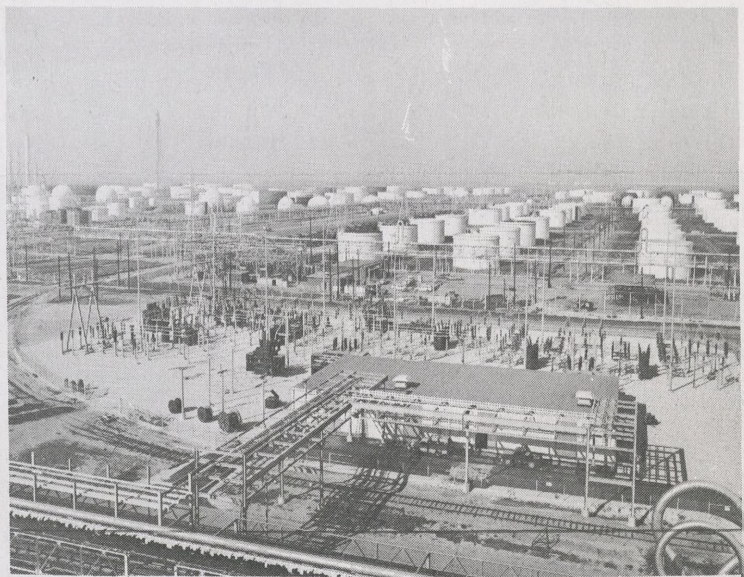
RISING SKYWARD--Distilling unit 2 came above the horizon during 1969 as progress was made on the expansion project. Shown are distilling 2, hydrodesulfurizing unit, and flasher, looking west.



The new hydrogen units begin taking shape on the East Property next to the cat. cracker. Right, the cat. reformer furnace is surrounded by material stockpiles, as cranes move into action to install structural pieces in the unit.

In addition, supplementary facilities under construction include a 550,000-pound-an-hour, 650 psig boiler, 4,000 gallons-per-minute boiler feedwater treating facility, 1.8 million barrels of additional tankage, 125,000 barrels of pressure storing facilities, a new 138,000-volt substation and a utilities control center.

In conjunction with the expansion, revisions are being made on the sour water stripper, the present hydrodesulfurizer No. 1 in the Aromatics Department, and the Dubbs 9 thermal cracking unit.



The 138,000-volt substation faces the Refinery entrance road.

## AS THREE-YEAR PROJECT TO INCREASE INTAKE CONTINUED

The total expansion is necessary to permit the refinery to process additional crude in order to meet the increasing demand for gasoline and turbine fuel. A part of the project will provide feedstock for Shell Chemical's new ethylene facility.

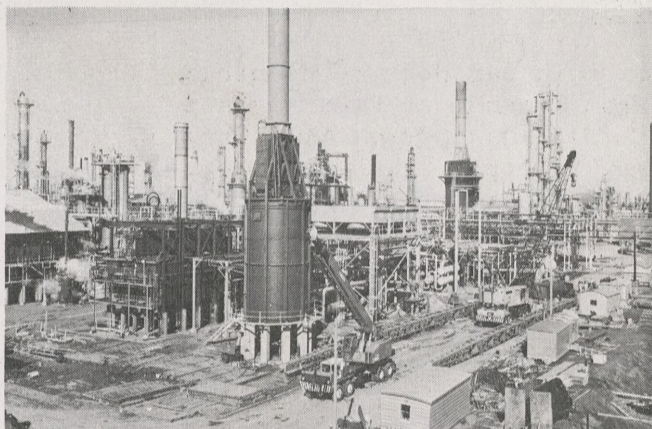
An important part of the planned expansion will be construction of extensive facilities to control air and water emission quality and noise levels. These include two sulfur plants under construction at the Chemical Plant, major effluent treating facilities, a smokeless flare and noise-limiting equipment. Both of the new sulfur recovery units will each have capacity to remove 150 tons of sulfur a day.

Construction, which began in 1968, is well on its way to meeting the expected completion date early in 1971 and will cost \$100 million dollars.

The crude distilling unit, designed for both a light and heavy crude, is under construction on the site west of distilling unit No. 2. The hydrocracker, hydrogen plant, saturates gas plant, and catalytic reformer are being built on the East Property, east of the catalytic cracking unit.



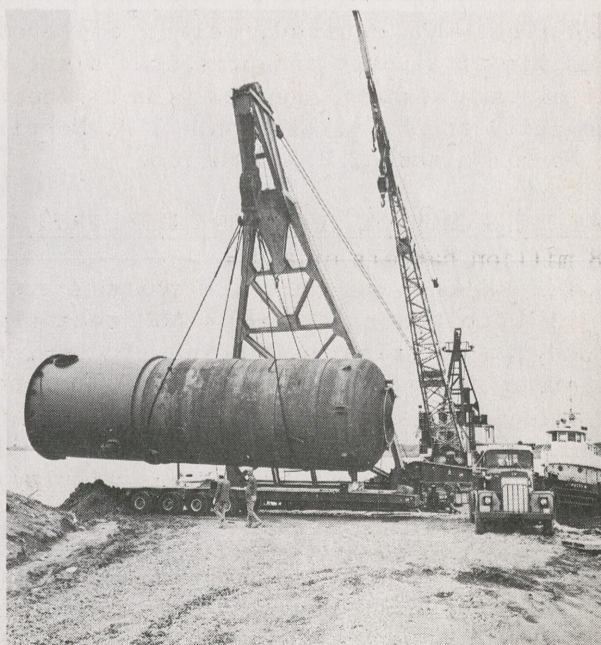
FOR THE FIRST TIME at the Refinery, high pressure propane storage tanks have been installed vertically.



HDU-1 revisions include new vertical reboil heaters and air coolers.



UP, UP, AND AWAY--Giant vessels require special modes of transportation. This particular vessel came up the Channel



by barge and was lifted onto an extra large truck for the final trip to the Refinery.

CLASSIFIEDSFOR SALE

72 inch sofa--off-white brocade--good condition.

Telephone: MO 4-1510

25' Nashua trailer house, \$1150.

Telephone: GR 2-3018

Cut-down mirror top piano, good condition.

Telephone: 479-1729

Kenmore stove, excellent condition, \$50.  
Sears make Coldspot air conditioner, 18,000 BTU, 2 ton, \$175.

Telephone: 675-7612

Gerbils--a popular kangaroo mouse-like pet--easily kept in an aquarium size cage and practically trouble free. Cost \$1 each.

Telephone: 946-6945

1961 Ford Starliner, v-8 with overdrive, good condition, \$300.

Telephone: 472-6736

CAR POOL WANTED

Would like to join car pool to downtown. Three blocks from Lawndale at Fair Oaks and Jefferson, 10 minutes to downtown. Work schedule 7:45 to 4:45 p.m., 5 days a week, lady preferred.

Telephone: 921-7288



WHEN JOHN WOOD retired, fellow employees feted him at a party and presented a set of golf clubs. Wishing John well (he is fourth from left) are H. A. Ellison, J. J. Morris, Doc Harrison and A. H. Loughridge.

WOODY TWINS GRADUATE WITH HIGH GRADES FROM A&M

Donald M. Woody was one of 28 students graduating with honors at Texas A&M recently.

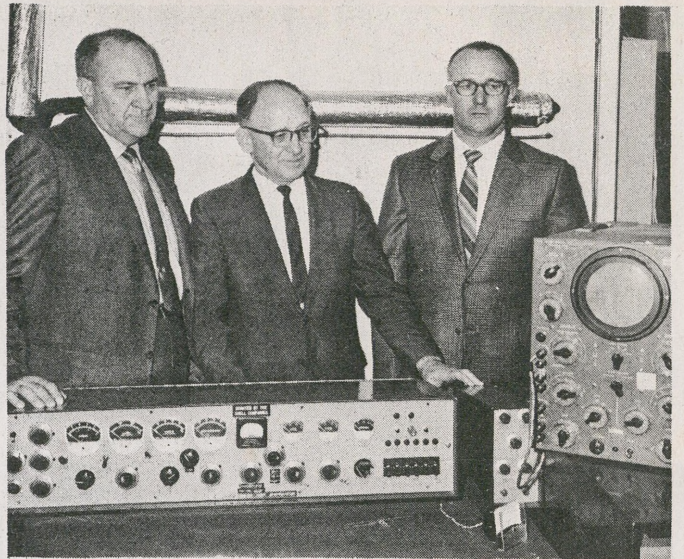
Woody, a veterinary medicine student, is the son of Mr. and Mrs. M. J. Woody. The senior Woody is an Operations Foreman, Lube A.

Twin brother Daniel also graduated and his father says he missed the honors list by a small margin.

Honor graduates must have completed four years of study with at least a 3.5 grade point ratio based on a 4.0 system.

Texas A&M's graduating class included a record 902 students.

Both Donald and Daniel plan to continue studying toward doctor of veterinary medicine degrees.



MASS SPECTROMETER--The Houston Research Lab donated a cyclodial-focusing mass spectrometer to the University of Houston Biology Department. Shown are Jack O'Neal, Manager Chemistry and Physics, Houston Research; Frank Colburn, Southern Recruitment Representative; and Dr. Glenn Aumann, Chairman of the Department of Biology, University of Houston.

DON'T LET TIME SNATCH YOUR CHILD'S SCHOLARSHIP DEADLINE FOR ENTERING COMPETITION IS MARCH 1

A late visit to the mailbox can deprive your child of a \$6,000 college scholarship.

Don't let March 1 sneak up on you. That's the date completed entry blanks for 50 college scholarships available to Shell children in 1971 must be received in New York by the Shell Companies Foundation, Incorporated. The 1971 scholars will be the third group to participate in the scholarship program sponsored by the foundation for the children of full-time, retired and deceased employees.

Each scholarship is a four-year award covering the undergraduate years. The amount of each scholarship is based on an individual winner's financial needs. The maximum amount awarded will be \$1,500 a year. The minimum award is \$500 a

To qualify for the 1971 competition, students must take the National Merit Scholarship Qualifying Test this February. The 1971 Shell Companies Foundation Scholarships will be awarded to students who will complete secondary school in 1971 and enter college the same year. Winners will be chosen by the National Merit Scholarship Corporation on the basis of scholastic aptitude, leadership and good citizenship.

Details of the program and entry blanks may be obtained from the Employee Relations office from G. L. Boatright. Completed applications should be sent to the Shell Companies Foundation, Incorporated, 50 West 50th Street, New York 10020.

CLASSIFIEDSFOR SALE

5 ft. chain link fence, 150 feet, complete with all fittings, walkway gate, driveway gate, good condition.

Telephone: MI 3-1140