

# Shellegraph

Houston Refinery

No. 43

Friday, November 19, 1971



A tanker takes on a diversified cargo including gasoline, fuel oil, lube oil base stocks, diesel fuel and chemicals. Four ocean-going tankers can be docked simultaneously at the Refinery wharfs.

## BUGS' APETITE FOR OIL HELPS SHELL IN COMPLETING OILY WASTE PROJECT

Bugs really do eat oil. Or, so it was proven in the Shell-Federal grant project to study the oil disposal by soil cultivation process which has been completed successfully at the Refinery.

The soil cultivation process consists of spreading oily waste material on soil, cultivating it into the soil under prevailing climatic conditions, and depending on soil bacteria to decompose the oil. (Soil bacteria cannot be seen by the naked eye, but are commonly referred to as bugs.)

"During the project, we found that heavy oil (# 6 fuel oil), waxy oil (waxy raffinate), and regular crude oil decompose in the soil at about the same rates and that adding nutrients (fertilizers) was helpful," said C. B. Kincannon, Project Director.

"Other objectives of the 18-month program were to determine major microbiological species and penetration depth," he added.

The major microbial species present in the soil are arthrobacter, corynebacterium, flavobacterium, nocardia, and pseudomonas.

Three experiments were conducted simultaneously by W. L. Pegues, Technical Assistant. One was with oil high in aromatics (No. 6 fuel oil), another used oil high in paraffinic hydrocarbons (100 waxy raffinate), and the third was with a balanced composition oil (crude oil).

"About every six months, these oils were added to each respective test tract. The land was plowed, cultivating only about six inches of surface soil after each application," Kincannon said, "and on a regular

(Continued on Page 2.)

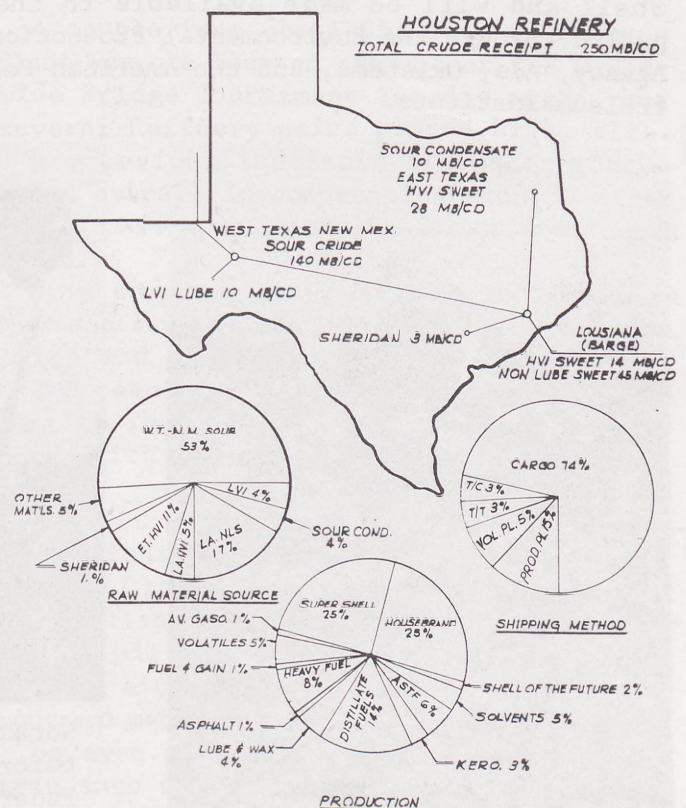
## REFINERY MAKES UP A BIG PART OF TEXAS' PETROLEUM PRODUCTION

To the layman, the Houston Refinery is a maze of pipes, columns, tanks, a number of different units, tank truck and tank car loading racks, docks where huge ships call, and some 1700-hard-working people.

The Refinery is a place where 255,000 barrels of raw materials come in every day and where about 7 million barrels of products are finished each month.

Because of efficient operation of the various facets of the plant, much of the production is not visible except whenever samples are collected for testing. About the only products that one would see around the refinery would probably be found in the wax plant where you can see slabs of wax coming out on a conveyor belt.

Operators keep round-the-clock control of production, watching the dials and gauges in control rooms and in the units, making adjustments when needed. These operators are a vital part of the Refinery's production efforts. They work toward meeting the Refinery's design production quotas as follows:



(Continued on Page 2.)

*obligations to EPA  
 how do we get permission to do release  
 will EPA do release?*



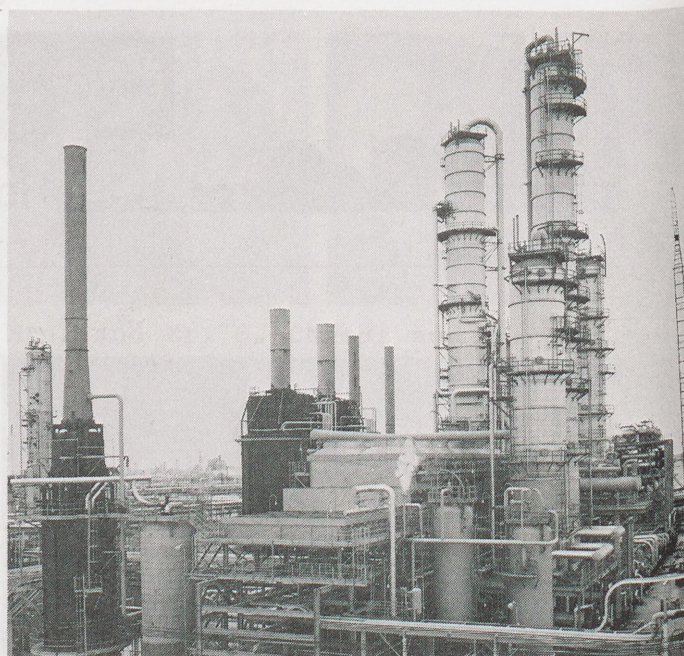
C. T. Archer, Operator #1, Cat. Cracking, gets attached to things like this jacket that he wore to work the first day he began his career with Shell 27 years ago. The jacket is still in good shape, so he says he is going to keep it for 27 more years.

**BUGS LOVE OIL--**  
(Continued from Page 1.)

basis of once every two weeks, weather permitting."

The \$100,000 project was carried out on a one-half acre tract of the seven-acre disposal area east of the Refinery slip on the Houston Ship Channel.

A final report is now being prepared by Shell and will be made available to the public through the Environmental Protection Agency, Ada, Oklahoma, and the American Petroleum Institute.



Distilling Unit #2 is a 160,000 barrel crude distillation unit which permits the Refinery to process additional crude to meet the increasing demand for gasoline and turbine fuel.

**REFINERY BIG PETRO PRODUCER--**  
(Continued from Page 1.)

The total barrel production for the third quarter here makes up a large portion of the total production of the 43 refineries in Texas. About 4.932 million barrels of Super Shell were produced in the quarter, enough gasoline to drive a car around the world 99,429 times.

While most of the crude comes into the plant by pipeline from Texas fields and by barge from Louisiana, most of our finished products move out by tanker. A total of 11.537 million barrels or 53.7% of total transported was moved by ocean-going tanker to Shell marine terminals along the Atlantic seaboard during the third quarter.

Other modes of transportation in order of usage were products pipeline, 24.9%; by barge 12.1%; volatiles pipeline 6.2%; tank truck, 1.6% and tank car, 1.5%.



Workman cultivates the oily waste disposal tracts before addition of sludge. Above, Leon H. Myers, Federal EPA Grant Project Officer, and C. B. Kincannon, Project Director, watch the application of oil to a test tract.

PAINTERS HONORED AT SAFETY DINNER



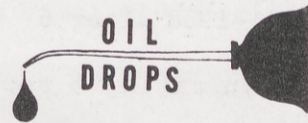
Painters celebrated another safe year of work at a recent dinner, guests included Mr. and Mrs. W. G. Allison, Pensioners,

H. A. Ellison and D. E. Fowler, and Mr. and Mrs. G. D. Dunn. Entertainment was provided by a young dance group.



Having a good laugh were Mrs. J. E. Nicholson, J. E. Holloway, A. J. Marches and J. J. Thompson

Socializing were Mr. and Mrs. M. H. Roberts, L. F. King, Mrs. A. J. Marches, Mr. and Mrs. J. E. Holloway and Mr. and Mrs. H.M. Highsmith.



A couple from Shell Chemical's Houston Plant won the Houston segment of the Worldwide Bridge Tournament Tuesday night, but several Refinery pairs placed high, also.

Roy Levitch and Steve Slaymaker placed third overall in competition with 30 other pairs. Mr. and Mrs. A. F. Sartor won fourth place.

Other couples placing in their sections were Mr. and Mrs. Morton Boston, second; John Allen and Joe Bindo, third.

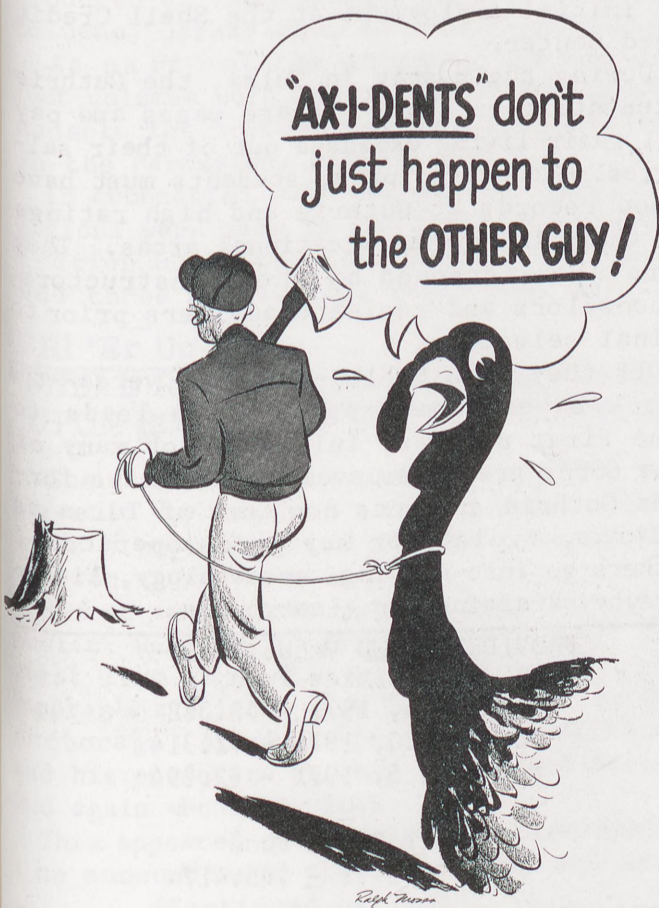
The results of the Houston heat will be sent to The Hague so that they can be compared with results from other locations.

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Leonard Milholland, Instrumentman #1, was a featured speaker at the Deer Park Rotary Club meeting last week.

Milholland, who is an avid treasure hunter turned pilot to aid him in locating good hunting sites, demonstrated different equipment and methods.

He even played a tape that he made on a trip into the wilds of New Mexico where he met an old prospector. The prospector told of days gone by and of his dreams of finding that "big cache" someday.



Repl. 7/20/71

## CLASSIFIEDS

FOR SALE

1961 Buick LaSabre, good transportation, full power, all working, \$150 or will trade. Telephone: GR 9-3556

Motor Guide trolling motor, used one time, Telephone: 471-0510 anytime after 4:30

Men's 1971 10-speed bicycle. Like new, \$60. Telephone: 729-1406

Upright piano with bench, \$250. Telephone: MI 3-9001

20-inch girl's bicycle, like new, \$20. Telephone: GR 2-3187

Piano. Good condition. Matching bench, \$195. Telephone: 473-5169

3 registered Arnold Palmer woods #1,2,3, like new, \$32.50. Telephone: GR 2-3187

3 gerbils & cage with wheel. Make offer. Telephone: MI 3-9001

1967 Dodge Dart GT, 2 dr. hardtop, radio, heater, tape deck, new tires, \$850. Telephone: 479-1021

Utility trailer, \$45. Telephone: 452-4963

Sony stereo music system, contains Pickering cartridge, amplifier, pre-amplifier, matched set of speakers & Garrard turntable, paid \$250, want \$165, six months old, like new. Telephone: WA 1-1338 after 6

3006 bolt action rifle, 4 power scope, shoulder pad. Telephone: 473-2170

Chest type freezer, 14 cubic feet. \$25. Telephone: 448-7118

12' General Electric refrigerator, copper-tone, color, freezer across top, clean & excellent condition, \$100. Telephone: 946-0729

'68 blue standard shift VW, 22,000 miles, white interior, brand new spark plugs and points. One driver only. May test drive. \$1300. Telephone: 220-6427 or 228-7740 after 5

11' RCA Whirlpool upright freezer, clean & excellent condition, \$100. Telephone: 946-0729

1967 Pontiac Firebird 326. Recently tuned, good body, cordova top, air, power, \$1250. Telephone: 1-579-2468 weekdays after 6

1969 XL Galaxie 2/D hardtop, fastback, 302 engine, diamond blue color, good tires, 44,000 miles, only \$1,375 Telephone: 649-2201 or 649-1919

Wrecked Econoline deluxe club wagon for parts. Telephone: 479-1772

WANT TO BUY

Two wheel Cushman motor scooter. Telephone: GL 3-7741

24" or 26" bicycle. Telephone: GR 2-3018

**TULSA CREDIT CARD CENTER NAMED TOP EMPLOYER BY JOB CORPS WOMEN**

The Shell Credit Card Center at Tulsa has been named by the Guthrie Job Corps Center for Women as the "outstanding employer for the fiscal year 1971" for its efforts and concern in the training and placement of minorities and the disadvantaged hard core.

Presented during recent graduation ceremonies, the award was accepted on behalf of Shell by Matt W. Boz, Credit Card Center Manager. The plaque accompanying the award cites the Credit Card Center for:

"...Outstanding contribution and cooperation in molding successful futures for Guthrie Job Corpswomen through the Shell OJT Program and Shell's excellent employment record of Job Corps graduates."

In accepting the award, Boz congratulated the Center's latest class of 31 graduates and wished them success in their career pursuits. About 600 Job Corps students attended the graduation exercises.

The award resulted from a unique Work Experience Program launched by the Credit Card Center about three years ago in cooperation with Guthrie officials. The program gives Job Corps students a chance to use their Guthrie training during eight weeks of initial employment at the Shell Credit Card Center.

During their stay in Tulsa, the Guthrie students earn above average wages and pay all their living expenses out of their salaries. To participate, students must have good records at Guthrie and high ratings in their individual vocational areas. They are also screened by their instructors, counselors and resident advisers prior to final selection.

If they like Shell--and vice versa--the Work Experience Program often leads to the first regular, full-time job many of the Corps graduates ever had. Twelve former Guthrie students now work at Tulsa as clerks, typists or key punch operators; Others go into nursing, cosmetology, lithography, drafting or electronics.

PROVIDENT FUND VALUATIONS  
Equities Fund

October 5, 1971 - \$2.388  
October 20, 1971 - \$2.314  
November 5, 1971 - \$2.294

Shell Stock Fund  
October 1971 - \$45.417