

Shellegram

Deer Park Manufacturing Complex

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ERU-5 Completion Cements Company's Position

The world's largest epoxy resin unit, ERU-5, was completed in February. Its completion not only tripled the DPMC's



Operator Randy Walker performs routine task of turning a valve in the recently completed ERU-5.

liquid resins production capabilities, but it also helped "cement" the company's position in the world epoxy resin market - a market in which Shell was already the leader.

Construction of ERU-5 began in August 1976 and start-up preparations be-

gan in early 1977. Both areas of responsibility were under process manager A. Y. "Gus" Noojin who said, "We will have the capability of adjusting the new unit's output (both quantity and quality) to meet marketplace de-

Continued on page 3.

What Do These Employees Have In Common?

What do general manager Gary Dillard, Hydrocracking operators Ronnie Garrett and Jess Senkel, Maintenance North instrumentman C. L. "Sweetpea" Parrish, and Process Engineering office secretary Kerry Nation have in common?

All were featured in the 20-minute Head Office videotape production "Energy to Burn." Produced by the News and Information Division of Shell's Corporate Public Relations Department, the videotape deals with energy uses and includes scenes from throughout the DPMC.

Others featured, in addition to those named above, were: Doyle McManus, E&S senior analyst; W. W. Ardis, operator No. 1, Catalytic Reforming; Ken Jones, staff engineer, Process Engineering; Louise Meier, senior secretary, Process Engineering; Henry

Miller, operations foreman, Utilities; Larry Tinkler, senior engineer, Project Engineering; Richard H. Thibodeaux, pipefitter, Maintenance North; Dave Butler, engineer, Process Engineering; and Jack Hays, retired pipefitter foreman, Maintenance North.

Arrangements to view "Energy to Burn" may be made through General Services. All managers have the information necessary to reserve the videotape and playback equipment.

Blood Pressure Testing

The Medical Department will be checking employees' blood pressures in the cafeterias from 11:15 a.m. - 1:00 p.m. and 2:15 p.m. - 4:30 p.m. on the following dates:

Refinery - March 29 and April 4
Chemical - March 31 and April 6

March 10-12 Camporee Attracts 600

The March 10-12 Bayshore District Camporee attracted 600 Boy Scouts, Webelos, Cub Scouts and adults. The weekend of camping, competition and working on merit badges was held at the Pasadena Rodeo Grounds on Red Bluff Road.

Of the 20 troops, consisting of 45 patrols, participating in the patrol competition, balloon launching and the first national egg drop, Troop 915, under scoutmaster Bill Mabry, senior Employee Relations assistant, won three of the six awards. Troop 915's Screaming Hawk patrol took first place in competition and second in campsite inspection and its Wolf patrol took third in the campsite inspection.

No wonder Bill was named as the Bayshore District's "Outstanding Scoutmaster of the Year" in 1977. Of course, Bill shakes off any credit for his patrols' exemplary performance by

saying, "Give them the credit for it - not me. They're the ones that got out there and did it."

Still, when two out of three patrols under one scoutmaster walk off with 50 percent of the awards, you know he must be doing something right.

Even Bill was amazed at the high percentage of successes in one of the more intriguing competitions involving the wrapping of a raw egg in a package 10 inches square or less in such a manner that it wouldn't break when dropped from 1500 feet. Of the 47 packages dropped, six weren't recoverable as the wind blew them out of the drop area; and of the 41 recovered, only five were broken. Packages included an egg suspended in a water-filled balloon (it broke), one packed in a cone-shaped cup, another in a pyramid-shaped container and one wrapped in foam (they

survived). All three patrols in Bill's Troop 915 submitted a packaged egg and all three landed intact.

Bill's son, Ken, a member of the Screaming Hawk patrol participated in the Camporee, but his older son, Alan, wasn't able to make it due to a varsity track meet. Other DPMC fathers and their sons included: Bentley, son of A. E. "Bull" Nettles, shift foreman in Light Olefins; Mark and Mike, sons of K. Steve Leach, manager E&S with Troop 1772; Edwin, a senior patrol leader and son of Ed M. Bealle, senior laboratory technician in Quality Control; and Benny, son of Benny J. Matusek, laboratory technician in Quality Control.

Sons of former employees Sandy Otto and Shirley Disch also participated. They were Jeff and Kevin, sons of Sandy; and Chad, son of Shirley.

Brown Street Dedicated

For those who make regular trips between Data Processing and General Services, Brown Street is good news. It means no more walking in mud when it rains or in dust when it's dry. Located between the refinery main office annex building and a storage trailer, Brown Street joined an already existing pathway to the GS&F building.

That's why numerous friends and co-workers gathered around Mike Brown (fourth from the right), manager, Financial-Product Accounting, at the March 10 ribbon-cutting ceremony and dedication of Brown Street. He was the man responsible for getting the pathway paved and they were enthusiastic in their approval of it.



1977 Best Year For Shell's Credit Union

The Membership Education Committee reported at the Credit Union's annual meeting last Friday that 1977 was the best year that the Credit Union has experienced during its 41 years of service. Assets alone grew by \$4 million while outstanding loans increased by almost \$4.5 million. Over \$1.25 million in dividends were paid during the year, plus a 15 percent interest refund.

Services were expanded to include the Master Charge Program. The Credit Union now issues Master Charge cards through the combined facilities of Town North Bank and the Credit Union. According to the committee's report, "The main difference between these cards and the one issued at banks is that we (the Credit Union) charge 12 percent A.P.R. and the banks charge 18

percent A.P.R.


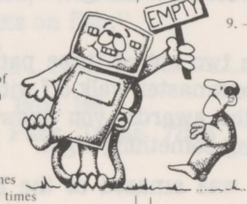
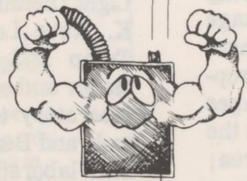


Another new service started in 1977 is the 30-year mortgage loan program with up to 95 percent financing.

Other services offered by the Credit Union include Travelers' checks, money orders, form wills, free notary service, consumer library, new car books, used car books, plus an attorney who will draft a will or handle probate for members at a greatly reduced rate.

So, if you haven't visited the Credit Union lately, make it a point to do so in the near future. The dollars you save will be your own.

Test Your E.Q.*

Take this quiz to check your knowledge and understanding of energy-environment issues. When you have marked your answers, turn to page 4 to see how well you have done.

<p>1. How much of the energy used in gas stoves supplies the pilot lights?</p> <p>a. 10% b. 25% c. 50%</p> 	<p>4. How long would a 100-watt light bulb burn on the energy needed to manufacture one throw-away soft-drink can or bottle?</p> <p>a. 10 minutes b. 5 hours c. 20 hours</p>	<p>7. How much faster than their rate of production are we consuming our fossil fuels?</p> <p>a. 10 times b. 1,000 times c. 1,000,000 times</p> 	<p>9. Which of the following fuel resources is in greatest danger of exhaustion?</p> <p>a. coal b. petroleum c. natural gas</p>
<p>2. An incandescent lamp and a fluorescent lamp having the same light output: Which uses energy more efficiently?</p> <p>a. fluorescent b. incandescent c. both about the same efficiency</p>	<p>5. How much of the energy stored in crude petroleum is lost between the oil well and a moving car?</p> <p>a. 20% b. 60% c. 90%</p> 	<p>8. What fraction of the world's energy consumption occurs in the U.S.?</p> <p>a. over 10% b. over 20% c. over 30%</p> 	<p>10. In the year 2000, American total energy demand will be:</p> <p>a. the same as today b. twice as much as today c. three times as much as today</p> 

* Energy Quotient.

Unit Visitation

A unit visitation period was held March 5 from 1:00-5:00 p.m. to permit BD-III, HT-III and Offsites personnel an opportunity to acquaint their families with those portions of the OP-III construction where they will be working.

Guided tours were conducted on a regular basis throughout the four-hour period for the 265 employees and guests.

Provident Fund News

The Provident Fund valuation is as follows:

- EQUITIES FUND
- February 28-\$2.292
- SHELL STOCK FUND
- February 16-28 - \$29.133

ERU-5 Completion Cements Company's Position

Continued from page 1. mands." He further noted that the process ERU-5 will use is very similar to that used in ERU-4 although on a much larger scale.

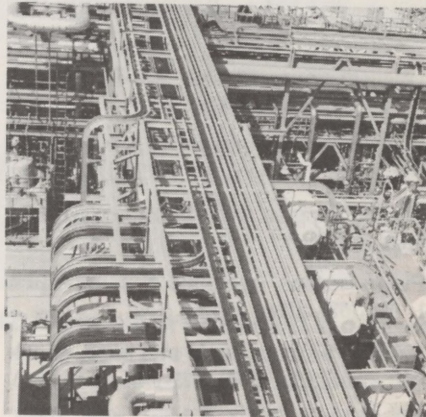
The new unit will utilize the most modern technology for safety and protecting the environment. Other features include sophisticated electronic devices such as a programmable logic control-

son, C. D. Gallops, D. L. Thrapp, F. Y. Gray, R. H. Campbell, T. Herrera, R. Crawford, G. Martinez, V. A. Razo, J. P. Whitman, M. C. Sinast, J. L. Nelson, R. W. Stokes, E. S. Reccord, R. E. Walker and G. E. Mooring.

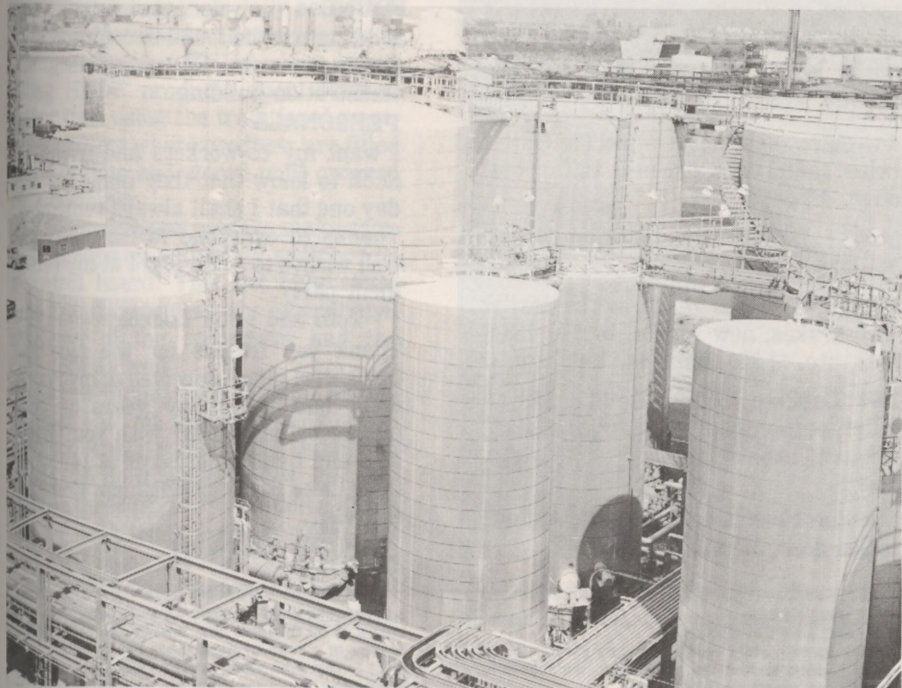
They will work under foremen Allen Fink, Bud Butler, Jim Cain, Don Lively and Buddy Smith. Their operating assistant will be Ray Corley.



Operator "Baby Doll" Campbell makes a line adjustment while foreman Bud Butler looks on.



These process lines span the reaction area.



The tanks pictured above will store finished and bulk resins.

ler (or PLC) and a mini-computer to control the process.

Using feed provided by BPA-2, BPA-3 and the ECH finishing unit, ERU-5 will produce feed for ERU-6 and resins for the marketplace. The main product produced in ERU-5 will be EPON(R)828, whose appearance resembles that of a heavy, white Karo syrup. According to Carole Williams, engineer, Operations Support, this type of resin is used in coatings, laminates, fiberglass reinforced articles, electronic circuit boards, filament-wound pipe, adhesives, terrazzo flooring and paving.

Twenty operators recently completed a six-week operator training school. They were: G. A. Parrott, J. R. Enderli, H. Perez, Pete A. Ortiz, Ben L. Jack-

This liquid resins unit "cements" Shell's position as the leading U.S. producer of epoxy resins.



Classifieds

FOR SALE

Playboy magazines 1968-present, well kept. \$60. 921-0943

2 Chevy slotted Dish mags, 15"x7" with Goodyear GT-G60-15 8" wides, like new. \$125. 921-0943

Sofa and loveseat, gold-brown-beige Herculon plaid, excellent condition. \$350. 479-2410

1972 Olds Cutlass 2-door, vinyl H-T, air, power, AM-FM stereo, auto, bucket seats, low mileage. 481-0294 after 5 p.m.

1973 Gremlin, auto, radio. \$900. 472-2365

1974 VW, clean, good condition. \$1,800. 476-4718

1975 Bultaco 360, excellent shape. \$495. 1-534-2604

1977 Datsun B-210 Hatchback, 10,000 miles, AM-FM radio. \$3,400. 944-4485 after 6 p.m.

1974 El Camino Classic, AM-FM stereo, tilt wheel. \$2,000. 649-2018

Set 12"x18" shrimp boards with stainless steel runners. \$15. 472-3018

Afghan puppies, 8 weeks old, no papers. \$100. 472-3018

Piano lessons, openings starting April 1. 944-1072 after 5 p.m.

Ventura 5-string banjo and case, excellent condition. \$180. 471-1751

1973 Mazda RX-3 2-door, new tires, excellent mechanical condition. \$1,000. 488-6412

1969 Plymouth Sport Fury 2-door HT, 383, P-S-B, air, vinyl top. \$550. 477-9383

1977 14'x72' Festival mobile home, central heat and air, 2 bedrooms, 2 baths. Small equity. 487-4234

1974 Ford Country sedan 9-passenger stationwagon, air, power, radio luggage rack, excellent condition, 45,000 miles. \$2,250. 467-5296

100'x160' wooded lakeview lot, blacktop frontage, cleared to build, utilities available, located in Lake Forest Falls off Hwy. 105 near Lake Conroe. \$9,500. 643-1428

1973 Caddy Coupe Deville, P-S-W, leather seats, tilt wheel, 32,000 miles, AM-FM stereo and tape deck, remote control mirrors, air. \$3,500. 473-1326

1974 Pinto Squire, air, auto, AM-FM stereo, 2-door, luggage rack, 2300cc, fairly new tires, 20,000 miles. \$2,450. 495-0410

4 western super sport wheels and steel belted radial tires, like new. \$250 or best offer. 487-2485

Two 78x15 6-ply tires, good tread. \$40. 944-8238

5 year old Aqha mare, horse trailer with brakes, new saddle, bridle, blankets, etc. \$1,750 firm. 487-3649 after 5

1973 Cadillac Coupe DeVille, 63,750 miles, perfect body, new tires, brakes, exhaust, shocks, battery. \$2,700. 479-0498

Vacuum cleaner and all parts, Antique ladies desk, 32"x19". 645-7928

1976 Jet boat, 454 Chevy, metalflake. \$4,600. 991-5062

1973 Honda 750, new tune-up, cables, tires, paint. Harley rear wheel, drag pipes. \$1,000 firm. 1974 Camaro, full power, new shocks, tires and exhaust, AM-FM. \$2,795. 479-3727 after 6 p.m.

1959 Elgin 14' fiberglass boat, 1963 Evinrude 28 hp outboard with remote control, electric start. \$625. 452-2866

GARAGE SALE

1518 North Parkside in Deer Park, April 1 and 2.

FOUND

Solid state radio found in company car. Claim in room 151 of refinery administration building.

PERSONALS

I want my co-workers and friends at Shell to know that they made my last day one that I shall always remember. Thanks to everyone for the gifts and well wishes to Artie and I at my retirement party.

- Tom and Artie Lockler

Thank you friends for the nice and thoughtful gifts I received at my retirement and the many years of good memories associated with you. Willie Mae and I will be at home at 141 North Deer Lake Road in Huffman. Come by and visit.

- Gordon Hightower

E. Q. ANSWERS

0-5 Poor, 6-7 Fair, 8-10 Good.

1.(c) Approximately half of the gas used in a gas stove is used to fuel the pilot lights because pilot lights burn continuously.

2.(a) Fluorescent lights give off three to four times as much light per watt of electricity used as incandescent lamps do.

3.(c) Aluminum is a very energy intensive material with the largest share of the energy going to process the ore.

4.(b) A 100-watt lamp could burn for 5 hours on the energy used to manufacture a disposable can or bottle.

5.(c) Ninety-four percent of the energy in the gasoline from crude petroleum is lost in making your car move.

6.(b) 15 man-days of labor. Said in another way, one barrel of oil contains heat energy equivalent to the energy of a man at hard labor for 2 years.

7.(c) In less than 500 years man will have consumed essentially all of the coal, oil, and gas that nature started forming 500,000,000 years ago. By comparison, that same fraction of a calendar year is approximately 30 seconds.

8.(c) More than a third of the world's energy is consumed by the 6 percent of the world's population residing in the United States.

9.(c) Natural gas reserves in the U.S. are expected to be exhausted in about 40 years. Petroleum should last for a century. Coal, 500 years or so.

10.(b) For more than a century, American demand for energy has doubled, on the average, every 20-25 years.



Deer Park Manufacturing Complex

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