

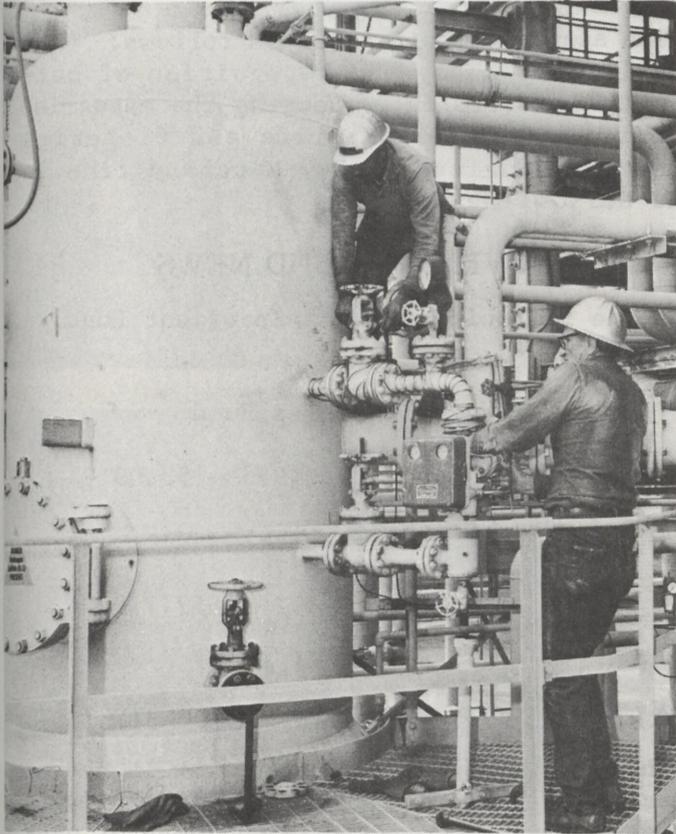
Shellegraph

Houston Refinery

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Friday, January 19, 1973

PIPEFITTERS MUST MAINTAIN PIPING INTERTWINING THROUGH REFINERY



R. L. McBride, Class A trainee, and J. C. Woods, Pipefitter No. 1, are installing steam supply piping and tubing to a level controller and high level shutdown device on the wet gas knockout drum at the Sats Gas Plant for freeze protection.

We at the Refinery have often heard the term "pipefitters", but possibly a lot of us are not fully aware of what is involved in refinery pipefitting.

At the Refinery, a pipefitter must put in or pull out blinds on units or equipment during shutdowns to seal off or blind piping so that other crafts can work on the units. After the turnaround is completed, the pipefitters again go in and pull out the blinds so that the units can start operating again.

Outside a refinery, there are trades such as plumbers, steam fitters and pipefitters. In a refinery, a pipefitter has to do all these jobs. He must work with anything from $\frac{1}{2}$ -inch copper tubing to 18- to 24- inch pipe.

A "fitter" must be able to measure and sketch for fabrication all types of piping details whether they are for renewals of equipment or new equipment going into service. A pipefitter uses a working knowledge of mathematics and trigonometry in determining odd degrees of tie-ins, offsets and bends in piping. Often, the fitter fabricates details for screwed piping jobs and may be required to make all types of bends in piping as large as 6-inches in diameter. This in itself requires a special knowledge. For

example, the pipefitter must know how to set up the machine for a particular bend, layout the pipe, and make the actual bend or bends in the bending machine.

Like the other crafts, the pipefitters have a distinct function in the Refinery. Every phase of the plant is tied in with piping which must be maintained by the pipefitters. This piping includes underground firewater piping of cast iron as well as piping under vacuum to pressures as high as 1800 pounds. The labyrinthine racks of pipes and expansion loops that meander through the Refinery must also be maintained by the pipefitters.

Although craft technology has not changed much in recent years, the pipefitter must be familiar with the higher pressure piping and the larger flanging details of the newer units as well as kinds of gasketing to use in each service. He must also be thoroughly familiar with schedules (thickness) of pipe and flanges as well as types of metal (carbon steel, chrome and other alloys) used in pipe work. Because of the new equipment to be maintained, the pipefitters have become involved in the use of new tools such as the bolt tensioner on some flanges.

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Shirley Decou and Greg Langnau crown an oil industry snowman on the steps of the MTM Process R&D Lab. This was probably the first snow at the Refinery in some 10 years. More pictures on Page 3.

CARTER NAMED OPERATIONS FOREMAN

R. J. Carter, Operator No. 1, Thermal Cracking, was recently named Operations Foreman in that department.

Royce joined Shell at the Houston Refinery as a General Helper in Engineering Field in March 1952. He moved to the Thermal Cracking Department in September of that year where he has progressed to his current position.

**CONNIE DAUGHRITY DIED FRIDAY**

Connie Daugherty, retired Medium Equipment Operator, Engineering Field, died Friday, January 12.

Connie started working at the Refinery in 1944 as a General Helper, Engineering Field. He became a Truck Driver #2 in Automotive in 1947 and moved to Medium Equipment Operator in 1956. He retired in 1970.



He is survived by his widow, Mrs. Mary N. Daugherty.

Services were held Monday in Lake Jackson, Texas.

ENVIRONMENTAL CONSERVATION IS NORMAL PART OF BUSINESS FOR SHELL

(Editor's Note: This is first in a series on Shell's commitment toward environmental conservation. Each succeeding installment will be published every other week.)

Everyone talks about the weather, but no one does anything about it. Unfortunately, the same is often true on the subject of pollution control.

But at Shell we're putting our money where our mouth is to the tune of some \$50 million a year to improve the environment.

"Shell Oil Company has actively pursued environmental conservation as a normal part of business for many years," according to J. B. St. Clair, president of Shell Chemical and a member of a sub-council of the National Industrial Pollution Control Council (NIPCC). "Today, Shell is more concerned about environmental control than at any other time in our history."

In a status report on "Commitments of Cleanup Actions" submitted recently to NIPCC, as part of a study which is eventually submitted to President Nixon, St. Clair points out that Shell believes the problems of national environmental control will continue to be solved within the bounds of public amenity, responsible regulations and sound business judgment.

Shell is committed to producing both the goods our society enjoys and an environment in which to enjoy them. This commitment extends from the wellhead to the finished product--from guarding the purity of air and water to constructing aesthetically compatible service stations. Here are some examples of expenditures by Exploration and Production in the field of environmental conservation.

Friday, January 19, 1973

SHELL WINS CONSERVATION AWARD FOR EFFORTS AT BAY MARCHAND FIRE

Shell has been chosen recipient of a plaque presented by the American Association for Conservation Information in recognition for the company's efforts to protect the marine environment during the Bay Marchand fire.

The Louisiana Wild Life and Fisheries Commission, a member of the international association, presented the award to Shell, one of 11 companies or individuals nominated for special awards of merit in late June during the annual conference of the association in Salt Lake City.

The award of merit reads as follows: "The Shell Oil Company--in recognition of outstanding efforts in protecting the estuarine environment and wildlife and fisheries resources during the Bay Marchand fire in the Gulf of Mexico."

PROVIDENT FUND NEWS

The following are the Provident Fund valuations:

Equities Fund

January 5, 1973 - \$3.091

Shell Stock Fund

December 1972 - \$57.759

Shell's E&P conservation efforts in recent years have been concentrated mainly on facilities to properly handle and dispose of produced water, although treatment of produce gas has also been an important item.

The crude oil produced from a well generally contains salt water and gas, which must be separated from the oil. Disposal of the water by a non-polluting method is a major production requirement and expense. Also, the gas must be separated and handled independently of the crude oil.

Actual capital expenditures for 1971 and proposed 1972 commitments in E&P activities come to a total of some \$17 million.

Last year alone Shell E&P spent \$3.4 million in capital on waste water disposal from oil producing operations and the figure for this year will be about \$4.6 million. As an example, a project to eliminate produced water disposal pits in the East Bay Complex of Louisiana was completed earlier this year at a cost of more than a half million dollars.

Construction of facilities to remove hydrogen sulfide from produced gas is another continuing major environmental cost for E&P. A \$420,000 project to recover hydrogen sulfide from gas produced at Cat Canyon field in California is due for completion in June, 1973. The concentration of hydrogen sulfide is well below toxic levels, but these gases will have the hydrogen sulfide removed to eliminate undesired odors and reduce sulfur oxide concentration in the air. Several other sulfur recovery facilities are already in existence and capital expenditures in this area for the past two years totals more than \$3.3 million.

"SHUCKS. IT'S ONLY SNOW", BUT TO MANY OF US IT WAS A WINTER WONDERLAND

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Well-aimed snowballs were flying at noon last Thursday in top photos, while Louis Marcelin, a native Cuban, enjoyed his first snow, left center, and Floyd Pierott shoveled his first snowy sidewalk, right center. I. C. White got out the water hose to clean icy windshields, middle photo. Above, G. G. Miles drove a Refinery version of a snowplow to clear roads. Right, two warmly-clad ladies prepared snowballs for action.

PIPEFITTERS CHALLENGED BY VARIETY OF ASSIGNMENTS--
(Continued from Page 1.)



L. D. Jennings, Pipefitter No. 1, and J. L. Blakely, Class A trainee, on left, place a 12-inch-600-pound-high-pressure check valve on the Platformer No. 1.



Pipefitters J. R. Newman and W. H. McGuire install temperature pump and piping for cleaning and testing Anhydrous HCl for Catalytic Reformer to the Chemical Plant.

On any day, the craftsman may have four or five job assignments or he may have a long-term project which can last several weeks. Some jobs involve a lot of climbing--one job may take the fitter to the top of a column, while another may be at ground level. The fitter often has to do his own rigging in erecting new pipe or dismantling old pipe.

More men are entering the craft with the addition of 11 Phase I trainees from the Craft Development Program. Six of these trainees have made Number One craftsman so far. Another group of 10 men is enrolled in Phase II currently being taught by Pete Garner in the Shops Training Room.

CLASSIFIEDS

FOR SALE

Sell or trade a '72 Yamaha 250 MX (dirt bike) in excellent condition for a late model 450 Honda in good condition. Telephone: 487-0056 after 5

1969 Olds Cutlass Supreme, fully equipped. O'Keefe & Merritt range, \$25. Four tires, G78-14s, \$32. Five tires, H70-115s, \$40. Telephone: 645-1155

3-1½-3 home, 2064 sq. ft. living area, den, breezeway, jalousied porch and patio, 1 car garage attached, 2 car & shop detached, 1 acre, 126'x340', ¼ acre garden, all schools less than 3 blocks, 814 Llano, Pasadena, behind Montgomery Ward's, \$19,995.

1971 VW Super Beetle. Excellent condition, Deluxe Sony radio with FM and 3 AM bands, plus dual speakers. Priced to sell. Telephone: 472-0800

1970 Datsun 240Z, 4 speed, air, AM/FM, new carpets & battery, Michelin tires. Telephone: 334-2229 or 488-1310

Baby bed with plastic covered mattress. Excellent condition, \$20. Telephone: 946-0729

Ski racks for snow or water skis. Adjustable to fit most car tops. Telephone: 472-0800

Yard swing set equipped with practically new 5' porch swing with foam pad and one child's swing--excellent condition, \$20. Telephone: 946-0729

Signature portable dishwasher, white, perfect condition, \$60. Riding lawnmower, \$40. Telephone: 946-7029

Mobile home, 1971 Bartlett, 70x12, 3 bedroom, like new, will sell for balance due. Telephone: 692-1698

FREE

German Shepherd female, good with children, 2 years old, looking for a good home. Has been spayed. Telephone: 487-2641

FOUND

Rabies vaccination tag from Pasadena Vet. Hospital.

FOUND AND STILL UNCLAIMED

Pocket knife.

PERSONAL

Thank you to fellow employees for your offers of sympathy at the death of my mother and father. Floyd Pierott Family