# **Crude Oil Becomes Gasoline At General Petroleum Refinery**

## CHEMICAL STRUCTURE CHANGED IN PROCEESS

Story for Torrance Press Progress Edition General Petroleum corporation's refinery on 190th Street and Crenshaw is a Torrance landmark.

What goes on inside the giant plant is a process which brings to man one of his basic sources of energy A gallon of crude oil, as it »-

comes from its hiding place in swimming pool in southern Calthe earth, is worthless to man. ifornia.

But after its four quarts of sub- Strangely enough, the big prostance are converted, it becomes cessing units work on tiny molea mountain of strength. That cules of oil, changing the com- stated. In fact, many of the conversion is what goes on at position of oil into varied pro- control devices which have been General Petroleum's Torrance ducts. This change is so com- placed on industry by the Air refinery, one of the company's plete that 96.7 per cent of the Pollution Control Board actualtwo such facilities—the other is beginning gallon of oil goes into at Ferndale Washington at Ferndale, Washington.

After oil is converted, it does balance is used in heating promany wonderful things. It cesses.

powers steamships, airplanes, While it is big, the refinery the Mobilgas refinery many miltrains and cars. All types of itself is not a cold, stand-offish lions of dollars since 1928. Dozmachines use this versatile sub- thing because its personality as even units themselves have been stance for lubrication or power. a good ctizen is determined by built to keep irritants from en-A refinery is a group of pro- the character of the people who tering the atmosphere. cessing units which convert run it.

crude oil into gasoline and other oil-based fuels. At Torrance 17 major processing units are utilized, and they are integrated Chamber of Commerce, Junior oil and other undesirable subinto an over-all plan for maxi- Achievement, scouting, church stances before it, is discharged mizing the production of gaso- and other worthwhile communi- into the county sewage system. line. ty groups. Conversion

isn't

many others. Smog Control

one or another product. The issued that they MUST be used.

is a vast program that has cost

Smog isn't made in the re-Many of its men are leaders finery, officials emphasized. in Torrance civic affairs, the Chamber of Commerce Junior Waste water is treated and chemically purified to remove Even the omission of odors is

General Petroleum's refinery restrained through specially-in-The "gallon of oil" is convert- is not a static thing — it is al-stalled facilities.

ed into nearly a half-gallon of ways growing. There isn't any The control laboratory func gasoline as well as nearly a stopping-place in refinery de tions include the careful check- an excellent place for engineers, District Officer quart of fuel oil, not quite an velopment because there isn't ing of oil from the time it en chemists, accountants and lots other quart of distillates, and any limit to technical progress. ters the refinery until it leaves of other workers to administer Visits Rebekahs perhaps a handful of petroleum For example, Robert L. Min- as a completed product.

coke, by heat, pressure and ckler, General Petroleum's pres- Operational control of each the business of making gasoline. sometimes the use of acids, ident, revealed only a few weeks unit is based on continuous caustics, catalysts or other ago plans for a new sova-form- tests made throughout the day er, which is in line with the and night. To do this, the rechemicals. Because oil moves from the company's policy of always finery's chemists take a daily beginning through the various seeking and providing a better average of 6,000 individual tests

processes in metal pipes or ves- product. from samples brought from sels, hardly anyone ever sees Refinery throughput ap every unit, every tank and every has never stopped since ground tranformation. The oil proaches 100,000 barrels daily. stream. moves silently from one plant In spite of its size and the Tests include the use of the

its original chemical structure refinery is a safe place to work. line is checked against a known Cracking (TCC) unit contrib. into membership by deposit of is changed into several dissimi-Safety Record lar products.

Everything On Large Scale um reported the Torrance em- dards. By these thousands of planes. A gallon of crude oil in itself ployees set a safety record of tests daily, consumers are as-

BETROLDS ALIBITEDA CO. OF LAMERIC.

big. But the processing more than 2,500,000 man-hours sured that the quality of Mobil stantial member of the com- ored and presented with corunits that go to work on the of work without lost time from products continually measures munity. It is a good and grow-sages up to the high level specifica- ing citizen which has taken its gallon are huge. Almost every- accident. thing at the Torrance refinery The period covered was from tions set for them.

ADIATOR & SANIDARY CORP.

is herculean, from the nuts and February 27, 1955 to February Buildings to carry on the rebolts that hold things together 20, 1956. More than 1,000 em- finery's business are modern, gress of Torrance. to the giant towers that pierce ployees, in a variety of crafts clean and functional. The large the sky. and trades, were involved. change rooms would do credit

The tank farm holds enough oil, for instance, to fill every and trades, were involved. The men of Torrance are all trained as experts in preventing the office buildings provide to a New England housewife. The office buildings provide to a daughter, Nancy Elizabeth, beld last night of a daughter, Nancy Elizabeth, for the evening.

AERIAL VIEW OF TORRANCE INDUSTRIAL CENTER

accidents to men or property. Maintenance means taking care of the \$50,000 in "tools" provided each man at the refinery. About 500 operate the refinery while the other 500 maintain the processing equipment.

This huge maintenance operation requires the talents of pipefitters, boilermakers, machinists, carpenters, painters, metermen, electricians, /and

The refinery has been a lead-

Keeping air and water clean

chart for TCC process. TCC unit in background

TCC at GP

Head stillman and engineer at TCC discuss modified flow

Katherine Vash, Noble Grand Comprehensive medical service, including first aid, therapy and of Torrance Rebekah lodge 347 X-ray eupment, helps keej the welcomed Ethel Grause, district men in good health. deputy president of District 66 The refinery occupies about on her official visit recently at 773 acres of land. Its growth the Torrance Masonic Temple. Phoebe Sykes of Torrance was broken in 1928. and Sally Benskin, formerly of The gasoline made in units Red Oaks, Iowa, and now residrefinery unit to another, and complexity of its equipment, the "knock engine" by which gaso such as the Thermofor Catalytic ing in Torrance, were welcomed

octane-rated gasoline supplied uted greatly to giving American card.

Last month General Petrole- by the U. S. Bureau of Stan- aircraft supremacy over enemy During the soccial hour, Mrs. Grause and members of her de-That's the refinery-a sub- gree and drill staff were hon-

> Helen Wilson and her committee served refreshments. place alongside other business-A reception in honor of all es in contributing to the pro-

new members taken into the lodge since its institution was

held last night at the Temple. Belva Brase was chairman

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### Local School District Now 9 Years Old

A few 'old timers' employed came officially a school district and into the. Redondo High by the Torrance schools can re- on July 1, 1947, for grades School District.

call the efforts, hopes, and as kindergarten to eighth. Then in 1948 they completed pirations of Torrance citizens to form a school system of their effort upon the part of the peo-District and into a high school own. Torrance residents want- ple of Torrance, which included district of their own. Since the ed (1) to improve educational a long campaign spearheaded boundaries were continuous, the opportunities for their children; by a charter committee appoint-Unified School District under (2) to keep their investment in ed by the City Council. The one Board of Education. schools in Torrance; and (3) members of this committee

to have a school administration were Dr. Howard A. Wood, Mrs.

to have a school administration were Dr. Howard A. wood, Mrs. of their own which would be sensitive to the interests of and needs of the people of Torrance. Steele needs of the people of Torrance. Steele.

The Torrance School District separated from the Los Ange-les city school district and be-les High School District in 1947



# In beautiful Rolling Hills

This lovely Provincial type home on a large view lot commands a beautiful view of the harbor and the sparkling Pacific. The spacious interior features a massive fireplace, paneled walls, O'Keefe and Merritt built-in

range and oven, and a host of other luxury and comfort features. Complete landscaping and ornamental fencing. Four bedrooms and two baths . . . offered from \$22,550.



Also available in this distinguished neighborhood ... a three bedroom. family room, and two bath Modern home. This sound, comfortable home offers a fireplace, built-in oven and range, forced air heating, huge patio, and many other luxury touches . . . plus a superb view. \$21,350.





DRIVING DIRECTIONS: Drive south on Western Avenue to Palos Verdes Drive North. Turn right and drive to Palos Verdes Drive East free late to Larga Vista in Rolling Hills



YOUR NEIGHBORS ARE! PLYWOOD OF CALIFORNIA, NORTHRUP AIRCRAFT, and GLIDE-EASY FURNITURE MANUFACTURING CO.

# TORRANCE INDUSTRIAL CENTER

TWO BUILDINGS 36,000 SQUARE FEET Now Ready for Occupancy

#### IMPROVEMENTS

Water mains, sewers, heavy paved asphalt streets, gas and power installations. Generous off street parking.

# NEWLY COMPLETED - One of three recently completed one-story industrial Senter new 17-acre development on Domingues in Torrance Industrial Center, new 17-acre development on Domingues industrial Sector Sect

#### LOCATION

Integrated between the Los Angeles Harbor and the Los Angeles International Airport in low tax rate Torrance. It is close to all Freeways.

I'm interested in knowing more about the buildings you are leasing in the Torrance Industrial area . . .

Please send me your illustrated brochure		Please	send	me	your	illustrated	brochure	
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Call me for an appointment

#### Drop in anytime

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ADDRESS	,	
SITY.		ZONE
FELEPHONE.		

#### CONSTRUCTION

These well designed structures feature pre-cast concrete tilt-up construction. The tapered steel roof girders are strategically supported by in-line steel pipe column supports which provide a maximum amount of usable floor area. A generous use of glass offers plenty of natural lighting. Completely fireproof, they are designed with a modern California theme enhanced with natural brick and stone work.

#### LEASES

Each building designed and constructed to meet the individual needs of the tenant. Office areas custom-built to tenant's requirements. Very attractive leases may be negotiated for qualified tenants.

You are invited to join the family of industries making their homes in this outstanding development.

