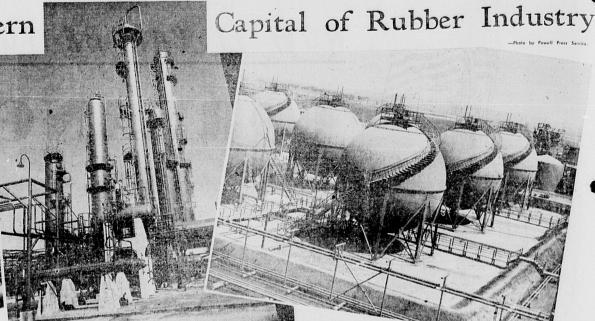
Torrance Becomes Western



ACETYLENE POLYMERIZATION . . . at the Shell Chemical unit at Torrance, which converts undesirable acetylenes in the hydrocarbon stream into polymers, to facilitate their removal.

ACETONE EXTRACTION UNIT . . . of Shell Chemical at Torrance, which separates butylenes from a mixture of hydrocarbons. The butylenes are later conarates butylenes from verted into butadiene.

HUGE SPHEROID TANKS . . . are used for storing under pressure the many hydrocarbon streams in process at the Shell Chemical Division of Shell Union Oil Corporation at Torrance.

Four of Six Big Plants in State **Operating Here**

The estimated national pro-The estimated national pro-luction of synthetic rubber under the government's pro-gram is 765,000 tons annually of the all-purpose Buna-S type of synthetic rubber, as against normal peace-time consump-tion of 650,000 tons of na-ural wibber.

quarter of a million acres, sure type tank trücks.

The estimated national process of the synthetic rubber of the government's promition of synthetic rubber, as against normal peace-time consumption of 650,000 tons of narial rubber.

The California Synthetic Rub-Project is a highly intested chemical process in which individual plants operated the six companies are linked ether in a continuous produce of flow from petroleum, bene and alcohol through butane and styrene to polymericin units which make the nat-S, or GR's (Government ber-Styrene Type) as it ised.

Butadiene Supply

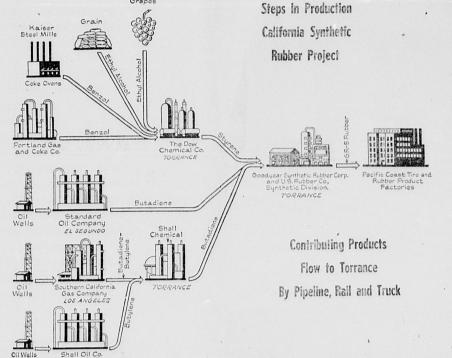
The raw butadiene stocks procedy the Southern Californ flow to the Shell Chemin plant where the butadiene gextracted and purified. It is in compressed into liquid form of plant where the butadiene extracted and purified. It is in compressed into liquid form of plant where the butadiene extracted and purified. It is not compressed into liquid form of plant where the butadiene extracted and purified. It is not compressed into liquid form of plant where the butadiene extracted and purified. It is not compressed into liquid form of plant where the butadiene extracted and purified. It is not compressed into liquid form of plant where the butadiene extracted and purified. It is not compressed into liquid form of plant where the butadiene plant where the butadiene plant where the butadiene products factories. Nine thousand of these bales with the products factories in the products factories. Nine thousand of these bales with the products factories and malayar. Years of experimenting by American chemical processed in the liquid form of the products factories. Nine thousand of these bales with the products factories. Nine thousand of these bales with the products factories. Nine thousand of these bales with the products factories. Nine thousand of these bales with the products factories. Nine thousand of these bales with the products factories. Nine thousand of these bales with the products factories. Nine the products factories. Nine thousand of

GAS FURNACE AND FLOOR FURNACE USERS

Immediate repair and maintenance service for gas space heating appliances is not always available because of to-day's manpower shortage.

Delays of from one to three months may be expected. Avoid suffering from this delay next fall when the comfort and warmth provided by your gas heating equipment is essen-tial to your family's health.

INSTITUTE OF GAS HEATING INDUSTRIES in order that the public may be advised of the manpower and material shortage in the heating equipment service industry.



the six companies operating the six units for the Rubber Reserve Company shared their talents and resources to accomplish the gigantic task of converting these formulas into a mass production industry.

To take the formula for making GRS from the laboratories, design special equipment for the purpose, and thus successfully materialize a gigantic mass production industry, was an achieve-

TRUCK OWNERS TALK CRITICAL TIRE SHORTAGE

IRUEK OWNERS TALK CRITICAL TIRE SHORTAGE

IN Serve Company shared their tale of the company shared their tale of the content o

Shell Chemical Began on Local Plant In 1942

When the Japanese created the rubber crisis by cutting off the American supply of natural rubber, Shell's foresighted research in the field of petroleum chemistry had already paved the way to make and purify butadiene, one of the making of GR-5 synthetic rubber. Shell, even before Pearl Har-bor, had constructed and placed in operation a butadiene plant in Houston, Texas, one of theirst to supply butadiene to the rubber companies. The development and successful operation of the Houston plant was preceded by ten years of intensive experimentation at Shell's Emeryville, Calif., laboratories.

Berin Here in 1942.

Air Conditioner



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