

National's Rigs Continue to Lead Search for Oil

Drilling rigs made by The National Supply Co. continue to lead the search for oil and gas in many far corners of the world, as well as in the United States.

Two new National rigs are now en route to Libya, considered one of the "hot spots" of today's oil exploration. One is a medium-depth National rig, normally considered for the 6000 to 8000 foot depth range, and includes two National slush pumps. Ordered by Camdrill International, Inc., it will be put to work for Libyan American Oil Co. 200 miles out in the Sahara.

A National rig, for the 4500 to 7500 foot depth range, was purchased by the International Drilling Co. for use in Libya. Said to be one of the largest and most powerful rigs ever designed for speedy transportation in desert areas, it has its

principal components mounted on semi-trailers with extra-size "desert" tires. In addition, the big mud tank and the heavy substructure required with the rig are equipped with detachable wheels. These wheels make it possible for the units to be hauled as trailers, but set down firmly on the ground for drilling.

RECENTLY the Drilling and Exploration Co., Inc., moved a National rig, from Nigeria to Libya, under contract to Shell Oil Co. of Libya, N. V.

Several prolific discoveries in Libya's Zelten field have caused a rush for drilling concessions in that country. One well brought in recently at less than 6000 feet tested at 17,500 barrels a day and another at 15,000 barrels a day.

ANOTHER OF today's "hot

spots" for oil men, although in a figurative sense only, is in the Far North. To date, the Canadian government has issued reservations covering more than 80 million acres in its Yukon and Northwest Territories and another 80 million acres in Arctic islands.

A National Supply Type 55 Rig, with special moisture removal equipment to prevent air lines from freezing, was used to drill a well that made a gas strike in excess of 8 million cubic feet per day at Western Minerals Limited Chance 1 well in Canada's Yukon Territory.

OIL COMPANIES also are doing some exploratory drilling in Alaska.

In the far northern areas, rigs are moved only in winter, when streams are frozen. The loads are carried on big

sleds, pulled by tracked vehicles.

National Supply rigs also are making outstanding records in the United States and Canada. Near Wichita, Kan., the Empire Drilling Co., using a National Rig, has completed more than a million feet of hole, in wells averaging 4016 feet. In eastern Colorado, Brinkerhoff Drilling Co. has averaged 38 wells a year, for more than four years, with a National Rig; these wells averaged 5341 feet, for a total of 849,251 feet, during the period.

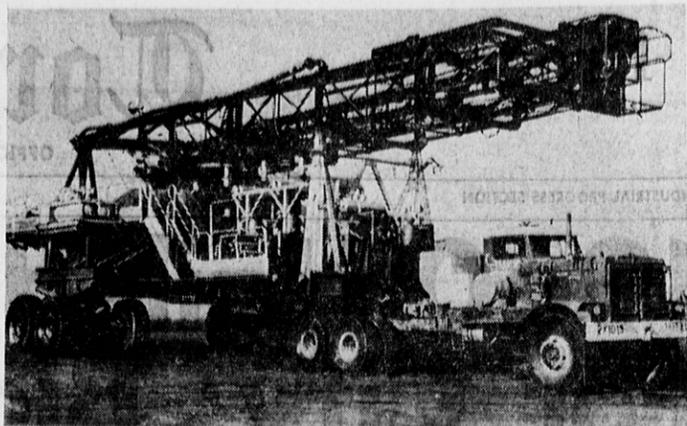
ALL NATIONAL rigs are built at the company's Torrance plant, which is the largest completely integrated machinery manufacturing plant in the West. In addition to its manufacture of equipment for the petroleum industry, the plant produces forgings, castings, air-

craft parts, heavy machinery, ordnance material, and special items for other industries.

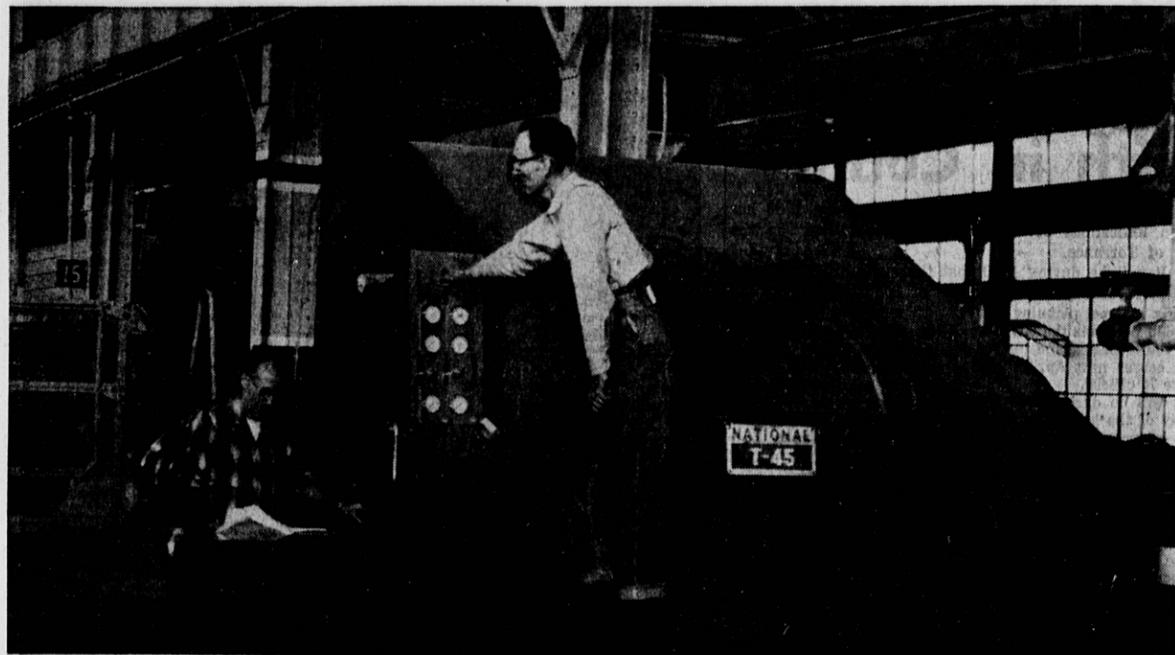
Established in 1894, National Supply is the largest manufacturer and distributor of oil field machinery and equipment. It has been a subsidiary of Armco Steel Corp. since 1958.

THE COMPANY has other machinery plants at Gainesville and Houston, Tex. The Fluid Packed Pump Co. Division, at Loe Nietos, Calif., acquired in 1959, makes down-well pumping equipment for oil country use.

National Supply has a mill at Ambridge, Pa., for the production of Spang Seamless Pipe, principally for oil field use, and one at Etna, Pa., for making Spang Welded Pipe, and Electrical Raceways for industrial and construction pur-



DESERT DRILLER . . . For Desert Drilling—This trailer-mounted National Supply rig is used by the Arabian American Oil Co. in Saudi Arabia. The double-deck trailer includes a draw works, three engines, a 100-foot mast, and other equipment. Believed to be the world's largest completely mobile rig, it is 71 feet 6 inches long and 28 feet 10 inches wide. With the mast folded down for transport, the rig is 23 feet and 6 inches high.



The draw works of a National Type T-45 Rig is shown under construction in our plant.

ALL NATIONAL DRILLING RIGS NOW ARE "MADE IN TORRANCE"

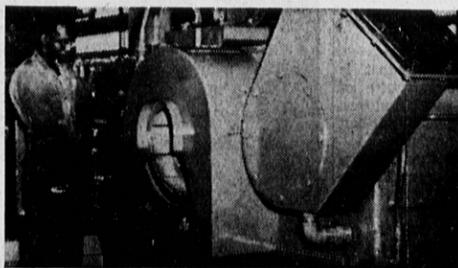
By tradition of many years standing, our Torrance plant has made the National Supply rigs for deep and very deep drilling, including the rigs that established nine of the eleven world's record depths below 15,000 feet. Smaller National rigs, for shallow and medium drilling, have been made at the company's Toledo, Ohio, plant.

Now, with the closing of the Toledo plant, Torrance has begun the manufacture of the company's complete rig line, ranging from the T-12, rated at 200 horsepower, up to the 1625-DE, rated at 2,500 horsepower. Included among the rigs now being made at the Torrance plant are the Type 4-10 and the Type T-45, introduced for the first time at the International Petroleum Exposition in May. The Type 4-10 is the "helicopter rig"; designed for drilling to the 10,000-foot depth, it can be disassembled into components weighing less than 4,000 pounds each, for carrying by helicopter, cargo plane, light truck or tracked vehicle, small boat or barge. The T-45 is an exceedingly compact, versatile rig for the 4,500 to 7,500-foot depth range; it is one of the most powerful rigs that is suitable for trailer mounting.

We are proud to take on the manufacture of the company's "small rigs," not only because this assignment provides additional activity for our plant, but also because it calls at-

tention to the great capacity and extreme versatility of the plant. Ours is the largest completely integrated manufacturing plant in the west, with a range of equipment, manned by skilled personnel, that enables it to take big, new jobs in its stride. In addition to National oil field machinery and equipment, the plant manufactures products on a contract basis for many other industries.

Established in 1912 as the first industry in the new community of Torrance, the plant has been a part of The National Supply Company since 1920. It has helped win respect throughout the world for the proud words, "Made in Torrance."



Assembling a Two-section Drive Group for a National Type T-45 Rig in our plant.

Hans M. Schiff Heads Ryan's Local Operation

Hans M. Schiff took over the duties of operating manager of the Ryan Aeronautical Company's Torrance plant on Sept. 2, 1958. He was formerly Works Manager of Manufacturing at Motorola, Inc., Chicago.

At Motorola, Schiff had jurisdiction over four plants — three in Chicago and one in Arcade, N. Y.—employing approximately 3000 employees in a wide variety of manufacturing activities, including military electronics equipment, automobile radio tuners, Chrysler automatic gear shift transmission controls, printed circuit chassis and fabrication.

The Torrance plant currently is producing electronics navigation systems, based on continuous wave Doppler radar navigation, and America's number one target system, the Firebee jet target missile.

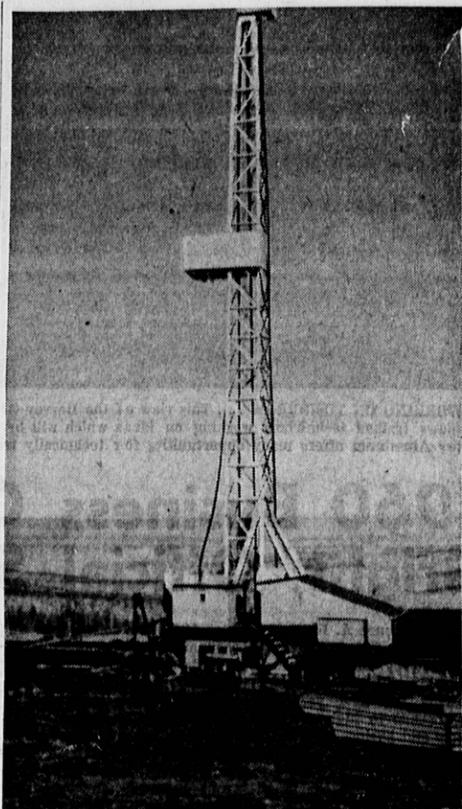
A graduate of Rochester, N.Y., where he majored in mechanical engineering and business administration, Schiff served in the Army from 1943 to 1946, when he was discharged with the rank of first lieutenant.

He was production manager of United Parts Manufacturing Co., an automobile replacement parts manufacturer in Chicago, for 4 years before taking a position with Motorola in 1950.

Schiff is married and has three sons and a daughter, ranging in age from 2 to 12.

poses. A plant at Melrose Park, Ill., assembles underfloor duct. The company has its general headquarters in Pittsburgh, Pa.

As part of its service to the petroleum industry, National operates 118 supply stores through the oil country of the United States, Canada, and Venezuela. These stores sell the products of more than 8000 manufacturers, in addition to National Supply products.



YUKON DRILLER . . . Drilling in Far North—This Torrance-built National Supply rig was used to drill a gas well in an unsurveyed area of Canada's Yukon Territory, within 200 miles of the Arctic Ocean. The components were carried 300 miles across ice and snow in a succession of loads on sleighs pulled by tracked vehicles.

Aluminum Conduit Added To Rome Cable Products

ed service to the electrical industry.

Locally, the effect of the merger has been to diversify the activities of Rome Cable's Torrance plant which employs approximately 200 people. Located at 1739 W. 213th St., the Torrance plant had previously produced tubing and electrical conduit made only of steel.

Now, in addition, aluminum pipe is being processed into electrical conduit. Although it has been available for some time, aluminum conduit was limited in use to special installations because of its higher price.

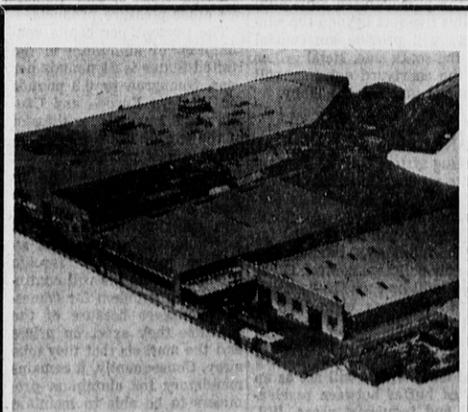
However, recent months have seen the price of aluminum conduit reduced to the point where it is now competitive with steel with the result that it is now probably the fastest growing product in the electrical industry.

In March, 1959, Glenn Koger, Rome Cable vice president and manager of the Torrance plant, was named Citizen of the Year for his all around community leadership in Torrance in 1958.

Marines Post New Recruiting Schedule

New hours for the Marine Corps recruiting station at the downtown Post Office in Torrance have been announced by Sgt. Ernest Hayes.

The station will be open from 8 a.m. to 9 p.m. on Monday; and from 8 a.m. to 4:30 p.m., Tuesday through Friday. Saturday hours are 8 a.m. to noon.



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