

**Quebec.**—The Department of Natural Resources, through its Mineral Resources Branch, administers general mining in the province, under authority of the Mining Act (SQ 1965, c. 34). The Branch comprises four Divisions—Geological Services, Mining Services, Laboratories, and Pilot Plant.

The work of the Geological Services Division is conducted through a Geological Exploration Service, a Mineral Deposits Service, a Mapping Service and a Water, Gas and Petroleum Service. It is responsible for the geological surveying of Quebec territory, with a view to promoting the development of the province's mineral resources. Yearly expeditions in the field provide information upon which detailed reports on various districts and geological maps are prepared for the use of interested persons. A unique mapping index is maintained through which prospectors may quickly obtain accurate information of value to their operations. The Water, Gas and Petroleum Division conducts hydro-geological surveys in quest of subterranean water and supervises drilling and boring operations undertaken by private companies in search of natural gas and oil.

The Mining Services Division includes an Engineering Works Service, a Mining Titles Service, a Mining Exploration Service and a Mines Inspection Service. It issues prospecting and development permits, grants mining lands for working purposes, and collects fees for mining rights. It is responsible for the inspection of mines, quarries and processing plants to ensure that operations are consistent with regulations and to ensure the safety of mine workers. A trained rescue crew of about 375 members operates as three main groups and nine secondary groups. In addition, all workers in active underground mines are trained in rescue operations. The Department undertakes the construction and maintenance of mining roads as authorized under the Mining Act; it has constructed and paid the full cost of certain highways leading to new mining districts. In addition, to avoid the establishment of slums in the vicinity of mining enterprises, the Department regulates the use of the land and authorizes the building of well-organized residential areas.

Laboratories, operated for the use of prospectors, geologists, engineers and mine operators, include equipment for mineralogy, petrography, the dressing of ore, wet and dry assays, spectrography or X-ray photography. Mineral determinations are made free of charge but the assaying of ore content is subject to a fee; free coupons are issued by the Department to be used by prospectors for payment of assays. The laboratories have patented 12 new processes for the extraction and treatment of minerals and, because of the development of such new metallurgical processes, certain minerals once deemed valueless are now of great commercial importance.

To provide for the future development of the mining industry, scholarships are granted to students wishing to follow a career in geology, mining and metallurgical engineering, as well as to students in hydrology or other relevant fields of science (hydro-electricity, hydraulics or meteorology). The Department, in co-operation with universities in Quebec and Montreal, gives yearly courses in prospecting and lectures are given by departmental geologists and engineers at various points in the province.

**Ontario.**—The Ontario Department of Mines renders a multiplicity of services of direct assistance to the mining industry within the province. The *Mining Lands Branch* of the Department handles all matters dealing with the recording of mining claims, assessment work, etc., and the preparation of title to mining lands. As a service to the mining public, individual township maps are prepared and kept up to date showing lands open for staking and recorded and patented claims therein. District Mining Recorders maintain offices at strategic locations throughout the province. The *Geological Branch* carries on a continuing program of geological mapping and investigation and prepares, for the use of the public, detailed reports and maps of the areas studied. A program is under way, in co-operation with the Geological Survey of Canada, through which the whole province is to be flown and mapped in a series of airborne magnetometer surveys. In many active areas of the province, resident geologists gather and make available to the public information concerning geological conditions, exploration and development within their respective districts. A geologist specializing in industrial minerals investigates