

of galena, containing some 4 dollars in silver per ton, is scattered in irregular bunches through the vein-matter. A little barytes, iron, and copper pyrites and blende are also found in small quantities in the vein-matter.

In the central part of the province, near Sault Ste. Marie, veins of argentiferous galena were worked to a depth of 400 feet. The ore is said to assay, on the average, 20 dollars of silver and 60 per cent. of lead per ton. The galena occurs in veins and stringers in a belt of green schists, which lies between granite and a siliceous felsite, with hornblende-rock, of Huronian age. Zinc-blende and copper and iron pyrites occur with the galena.

In the west, the silver-carrying veins of the Animikie contain sometimes considerable quantities of galena, but no mine has been worked for the latter mineral. Galena-bearing veins occurring in Laurentian and in the Nipigon series, are also found in the Thunder Bay district, opposite the head of Black Bay (Lake Superior), south of Lake Nipigon. One of these veins, with a width of 6 to 8 feet, was worked for the galena. It was said to carry 17 dollars of gold and 2 dollars of silver per ton. The gangue is quartz, calcspar, and barytes. It is not now worked.

#### *Zinc.*

Zinc-ores are not worked in the province, either for export or for the extraction of the zinc. Zinc-blende is reported to have been found to a considerable extent in the Huronian formation, in a hornblende-rock or diorite, occurring in large veins or lenticular masses at the Zenyth location, Black Bay, near Thunder Bay. It gave an assay, according to the records of the Geological Survey, of 54 per cent. of zinc. The same ore in large crystals is found in an 8 feet vein of coarse calcspar, which occurs at the contact of the Huronian and Animikie rocks. The blende occurring in the silver-carrying veins of the Animikie has been alluded to.

#### *Apatite.*

Phosphate of lime or apatite has not been found in Ontario in as large deposits as in the sister province of Quebec, but as regards similarity of occurrence and quality of produce (dependent largely upon intelligent dressing of the rock) identical conditions appear to prevail on both sides of the Ottawa river. Apatite averaging 84 per cent. of phosphate of lime has been shipped from Ontario mines.

At present the low price of phosphate of lime, owing to the development of the Florida high-grade rock, has been the cause of the temporary