

wise known by the names of purple copper, erubescite and peacock or horse-flesh ore. The deposits of the first have their greatest development in Bolton, Hatley and Ascot, the associated rocks being for the most part chloritic slates, dioritic rocks and sometimes serpentines. The important mines of this area are those south of the city of Sherbrooke, at Capelton, and the Huntington mine, in Bolton. The other varieties are more frequently found in the most westerly belt of cupriferous schists, as seen in the townships of Acton, Halifax, Leeds, etc., where they are generally associated with dolomitic limestones and nacreous or micaceous schists. Among the most celebrated mines of this area may be mentioned those of Acton and Harvey Hill, at both of which localities very extensive workings were carried on for many years.

The occurrence of copper lodes of such size as are found at several points, notably in that portion of Ascot, south of the city of Sherbrooke is probably, to some extent, due to the presence of dioritic dykes and masses, often of large extent, which penetrate the cupriferous schists of that area. This feature is also seen at several other points in connection with the deposits of Sutton, Bolton and Brompton, though, at times, the diorite has changed its character and passed into a more or less pure serpentine, the two kinds of rocks being frequently intimately associated.

The *asbestos* industry, which from its inception has steadily but rapidly increased in importance, bids fair to shortly become one of the leading mining industries of the Province. While the occurrence of this mineral has been known for many years and has been referred to in several of the early reports of the Geological Survey, its real economic value was apparently undiscovered till within a comparatively recent period. Although occurring to some extent with the serpentines which are associated with the limestones of the Laurentian district north of the River Ottawa, the development in this direction has not yet been sufficiently studied to warrant a clear expression as to the actual value of the deposits in this quarter, and the economic production of this mineral is as yet entirely confined in Canada, or at least in Quebec, to the belt of serpentine rocks which have been mentioned as forming a part of the volcanic belt of the Lower Cambrian of that Province.