

The pyrite, epidote and sphene occur in small amount in little irregular shaped grains.

The other two specimens contain no biotite, but hold a certain amount of quartz, recognized by the absence of cleavage and decomposition products and by its uniaxial and positive character. The quartz grains are sometimes broken, but do not show much evidence of pressure either. The specimen collected about a quarter of a mile below Arnprior contains a considerable amount of quartz, while that from two and a quarter miles below, holds less quartz, and contains, in addition to the pyrite, a little magnetite or ilmenite.

To sum up, therefore, it may be said:—

(1) That the Scapolite Diorite, which in Norway occurs so intimately associated with the apatite deposits, does not occupy the same relation to the Canadian deposits.

(2) That its place in Canada is taken by certain pyroxenic rocks which have not, as yet, been thoroughly studied.

(3) That Scapolite Diorite and transition rocks between it and gabbro, identical with the Norwegian rocks, do occur in our Laurentian System, associated with amphibolites and crystalline limestones.