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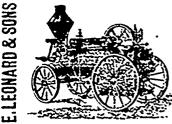
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MINING.

ASBESTOS MINING IN QUEBEC.

By E. W. Elle.

The ashestes mines of the Province of Quabec are, at the present day, of special interest to the mining and industrial world, from the fict that in so far as now known they practically represent the only deposits where this mineral, of a quality adapted for spinning, and for the ficer purposes of

manufacture, can be profitably obtained.

The rocks with which the asbestes veins are associated in Quebec constitute a somewhat distinct series, which have, for the last thirty years, been known under the name of the "Quebec" group. They comprise an extensive and important development of both sedimentary and eruptive rocks, which extend throughout the eastern part of the Province, from the Vermont boundary to the extremity of Gaspe peninsula. They are not recognized in their entirety in any other part of Canada, though certain pertions of the group are found in their extension southward into the United States. Crossing the Gulf of St. Lawrence they, however, form a very extensive belt in the island of Newfoundland, where, more particularly at certain poins on the west coast, the same series of slates, sandstones, diorites and serpentines occur, the whose presenting features both from geological and mineralogical standpoints, very similar to what are seen in this portion of Canada. While these rocks in Newfoundland have, to a certain extent, been traced out, no systematic search for asbestos has as yet been made, though that the mineral occurs there at a number of points, and in a variety of forms, is clearly indicated by the specimens which have from time to time been obtained in the course of the general geological exploration of the Island. S me of these specimens belong to the group of actinolitic minorals like the deposits found in Potton and Bolton, but among others observed from that country were samples of voin asbestos, equilling in quality any obtained at Thotford, and having a fibre from two to three inches in length.

The mineral asbestos proper belongs to the hornblende or pyroxene group of minerals, while that of Quebec, commonly known by this name, is in reality a variety of serpentine, mineralogically known as chrysotile. It is found in the eastern townships of Quebec, in small veins occurring in masses of serpentine which form a series of discounced masses, generally of small extent, surrounded by igneous tock, principally dioritic, but occasionally rising through great outcrops of slates or schist. Sometimes, however, these masses of serpentine assume such proportions as to rank almost as mountain 11dges.

Prior to 1880, the greater part of the fine asbestos fibre adapted for pinning come from the mines of Italy and Corsica, and owing to the difficulty with which it was obtained, and its exceptionally fine quality, commanded a very high price in the market, reaching as much as \$250 to \$300 per ton; but the discovery of the chrysotile deposits in the Province of Quebec of a quality equally well adapted for spinning as that of Italy, taken in connection with the fact that these were situated directly along a line of railway within short harlege of a shipping port, almost revolutionized the industry, and has lately nearly closed the Italian minec.

Much of the so-called asbestos of these mines, however, is not adapted for spinning, and is used for the manufacture of mill-board, coments, paints, etc., us is also the output from such mines in the United States as have been working more or less constantly for the last twenty years. The output of the Quebic mines has even already had such an effect upon these that their present output is probably scarcely one-tenth of what it reached ton

In Ontario a large quantity of the mineral actinolite, a member of the hornbleude family, is mined and ground at Bridgewater, in Histings County. This is used for cement roofing, being mixed for that purpose with tar, the fibrous texture of the material being such as to allow of its felting, but not

for spinning. The serpentine of Quebec, which is really asbestos-bearing to an extent which can be prefitably worked, is confined to a comparatively limited area, and more particularly to certain portions of the townships of Taetlord, Ireland. Coleraine and Wolfestown, in which localities successful mining operations have been carried on for some years. But even in these districts there are large portions of the corporatine belts which, in so far as yet proved, have disclosed no asbestos in quantity to be economically available. The reck carrying the merchantable asbestis is generally a greyish weathering scrientine of some shade of creen on fresh fracture, generally a groyish green, in which are contained numerous smalt particles of iron, both megnetic and chromic, more generally the former. Serpentines that have a idack, lard, chippy aspect do not apparently promise well, nor does the rock which weathers a duty residish brown. In the asbestos hearing rock proper the veins of astestes are seen, without any special arrangement, intersecting the mass of the rock generally in every direction, but for the most part at a considerable angle both to the perpendicular and horizontal. Certain peculiar arrangements of these veins are, however, noted in certain areas, as at the King Bree,' mine in Iteland, where the serpentine appears to be regularly stratified almost in the manner of sandatone or quartite in layers dispirg to the northwest, and the veins of asbestes apparently follow what, in sedimentary rocks, would be regarded as the bedding planes. In several other places the veins, few in number, cut the reck in an almost horizontal position, and when found in a knoll can be traced across from one side of the hill to the other nearly on the same plane, but as a rule the veins are irregularly placed.

(To be continued.)