

is occasionally taken for coal; but although chemically of the nature of certain varieties of this substance, it differs from it geologically, and essentially, by never occurring in true or workable beds, but only in irregular masses and narrow veins of no utility. Its ash does not exhibit any traces of vegetable structure, as seen in the ashes of all ordinary coals.

The following are the more important economic substances of the Quebec Group.\* *a) Copper Ores*:—These comprise chiefly the yellow or common Pyrites, Purple Pyrites, and Copper Glance, occasionally mixed with small portions of native copper and native silver. The ores occur in large irregular or lenticular masses, or in beds, and yield from eight to about eighteen per cent. of metal. Workable quantities are known to exist in the townships of Acton, Upton, Wickham, Durham, St. Flavien, Leeds, Cleveland, Melbourne, Sutton, Chester, Ham, and Garthby; and indications of copper occur in many other localities of this metamorphic region. *b) Gold*:—Indications of gold have been met with near the Chaudière Rapids, and in a quartz vein in the township of Leeds. The gold of the alluvial districts will be referred to in connexion with the economic substances of the Drift Formation, as it occurs in the deposits of this latter age. *c) Chromic Iron Ore*:—(In beds in serpentine: townships of Ham, Bolton, and Melbourne. Mount Albert: Schickshock Mountains of Gaspé). *d) Hematitic and Magnetic Iron Ores*:—(in beds: townships of Brome and Sutton). *e) Galena*:—(Sutton, Chaudière Valley). *f) Carbonate of Magnesia, Soapstone, and Potstone*:—(Sutton, Bolton). *g) Marble*:—(Parish of St. Armand (white, black, &c). St. Joseph (red, with white veins). *h) Serpentine and Serpentine-Marble*:—(Mount Albert, Gaspé; St. Joseph, Beauce Co.; townships of Oxford, Melbourne, &c). *i) Roofing Slates*:—(Melbourne, Cleveland, Oxford, Tring, Kingsey. Walton's quarry, near Richmond (Melbourne township), is in active operation. The cost of the slates delivered and loaded on the cars at Richmond, is four dollars per 100 square feet for those of large size (24in. x 12), and two and a quarter dollars for the smaller size (11in. x 6). *j) Whetstones*:—(Stanstead, Hatley, Bolton, Kingsey).

*Calceiferous Strata of Lake Superior*:—These strata form the

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\* The reader will find various details of much interest on the copper mines, slate quarries, &c., of the Eastern Townships and other counties of the Quebec Formation, in the Descriptive Catalogue of the Economic Minerals of Canada in the London International Exhibition of 1863, by Sir W. E. Logan.