

neither the older Pliocene, Miocene, Eocene, Cretaceous Wealden, Oolitic or Lias formations, averaging a thickness of 6,000 feet in Europe, have hitherto been found in Nova Scotia; and therefore, by the absence of so many geological divisions, the researches of the Nova Scotian are simplified when seeking for the type or name of any unknown specimen.

The temperature and character of springs are deserving of attention. Those of an unusually cold character are considered by miners as favourable indications of a lead deposit, while hot springs are found to flow from copper lodes. The chalybeate, containing carbonate of iron, deposit an ochreous scum, and it is a favorable indication of a coal or iron-stone formation. I have generally found the springs in Nova Scotia to be of a temperature of forty-eight degrees, while the mean temperature of the air is forty-two degrees.

The physical geography of a country will, to a certain extent, indicate its geological structure. A lofty or mountainous country, with barren, pointed summits to the hills, will indicate a granite formation, while deep ravines with precipitous banks, but with more vegetation upon their tops, are characteristics of the slates; the limestone and coal districts are marked by rounded hills or ridges, and the more modern clay and diluvial deposits (produced by the abrasion of the older rocks) are either generally covered by extensive forests or a fertile vegetation.

The limestone rocks are deserving of particular attention. It is to be observed that all the qualities of lime, whether rich, poor, or hydraulic, in any degree, assume indifferently any color: they may be either white, grey, yellow, buff or red. Such as yield from one to six per cent. of silica, alumina, iron, magnesia, either separately, or in combination, give rich limes upon being burnt. Limestone with silica in the state of sand, magnesia, oxides of iron, or manganese in various proportions

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