

cies, occurring in the lower part of the Upper Silurian division. Sir Roderick adds, as further remarkable, that on submitting to the Continental geologist some of the shales and nodules in which these Ayrshire shells are imbedded, "he declared to him that he might produce our Scottish rocks as Bohemian specimens." The Bohemian species of orthoceratite has, of late, I may mention, been found in Ireland by M'Coy.

Taking leave of the interesting shale deposit at Drummuck, I scaled the southern side of the little valley in which it occurs, and came down upon the range of bold limestone cliffs, whose picturesque appearance, rising high over the woods, had, at the distance of several miles, attracted my notice in the valley of the Girvan. The relations of this limestone to either the indurated sandstones or the trilobite shales, is, from the covered character of the ground, not distinctly traceable; but its fossils belong to the Lower Silurian group, and it is identical in structure and appearance with a limestone which crops out in several localities to the south of the valley, and which, underlying the sandstone, is evidently the oldest deposit in the district. It is an exceedingly hard sub-crystalline stone, and looks as if an outburst of the trap rocks which rise around it, and at certain points send out enormous dikes into its substance, had given it, for the purposes of the palæontologist, rather too much of the fire. And so, though it abounds in fossils, — corals, trilobites, and shells, — they are rarely sufficiently distinct enough to be identified. Occasionally, however, on the argillaceous surfaces of the thick beds of which the rock consists, we find a trilobite or shell impressed with characters sufficiently legible; and its more massive corals and encrinal stems are, from their lighter color, and the trace which they still retain of internal structure, usually distinguishable enough in the body of the stone. It is a curious circumstance, that not only in the group do the fossils of this rock resemble