

and sometimes strongly. In the Isle of Wight it contains much green earth. Occasionally it includes beds of sandstone. At Bognor, on the coast of Sussex (G. T. vol. ii. p. 190,) are several rocks now appearing as detached masses in the sea, though evidently forming portions of a stratum once continuous. The lowest part of these rocks is a dark grey limestone, or perhaps rather a sandstone, containing much calcareous matter, enclosing many fossils belonging to the blue clay. The upper part is a siliceous sandstone. Bognor rocks resemble much the nodules and beds of limestone that are found in the blue clay of Alum bay, and are no doubt owing to the great abundance of calcareous matter in this part of the bed. The Barns rocks between Selsea and Bognor, the Roundgate and Street rocks on the west, and Mixen rocks to the south of Selsea, are portions of the same bed: similar masses also appear at Stubbington. The cliff near Harwich in Essex (G. Notes) contains beds of stratified limestone.\*

\* The fullest idea of the nature and composition of this formation will be conveyed by the following actual sections, generally obtained from the sinking of various wells in the neighbourhood of the metropolis.

Section afforded by a well sunk at Josiah Forster's, at Tottenham in Middlesex. (P.)

	feet.
1. Immediately below the surface was found brick-earth and coarse yellow sand (from which washed malm bricks are made) stiff clay, and gravel.....	20
2. Blue clay of various intensity of colour and degrees of stiffness, adapted for tile-making. It effervesced slightly, and enclosed hard and irregular masses of a lighter colour, full of minute appearances of charred vegetable matter, and septaria, which also effervesced.....	60
3. Blue clay of a greasy aspect and somewhat greasy to the touch; it did not effervesce.....	20
4. Purple, blue, red and brown clay mixed, having greatly the appearance of some varieties of lithomarge: it did not effervesce.....	10
5. Blue, white, and brown clay mixed, much heavier than the preceding: it effervesced strongly and contained very compact, hard, and nearly cylindrical masses, six to 12 inches long, and of a yellowish white colour, which effervesced strongly.....	10
6. Yellowish white clay, frequently compact and hard, and equally heavy with the preceding: it effervesced strongly..	3
Rock bored through .....	2

120

Water rose to within a short distance of the surface in a few hours.

No rock was found in sinking several wells, not half a mile distant; in these wells only blue clay, and the alluvium covering it, were perforated; the water rose immediately from beneath the former, and has in some instances thrown up so great a quantity of white sand as to obstruct the