

Section of Binstead quarries.

On the summit lies	feet	in.
1. Blue clay, in which are many large and loose masses which appear to belong to the Upper Fresh-water formation		
2. Limestone composed of coarse fragments of fresh-water shells	2	—
3. Ditto, the fragments being less coarse	4	—
4. Ditto.....still less coarse	2	—
5. Ditto	1	6
6. Siliceous limestone	1	6
7. White shell-marle.....	—	10
8. Siliceous limestone.....	—	6
9. Sand	—	8
10. Siliceous limestone rag	—	6
11. Sand	50	—
12. Blue clay.....	depth unknown.	

The fragment beds of the above quarries consist of hollow moulds of fresh-water shells held together by calcareous spar.

This stratum is separated in Headon hill from the Upper fresh-water, by the Upper marine already described, and is sometimes separated from the bed of black clay on which it rests, by a black coaly matter. This bed of clay is thirty-five feet thick, nearly horizontal, contains fossil shells, and sometimes selenite, and it reposes on a bed of white sand 30 to 50 feet thick, which forms the base of Headon hill, and which is largely employed in glass-making. But neither the clay nor sand has hitherto been distinctly referred to any particular formation.

(b) *Mineral contents.* Under this head it may be observed that at Headon these beds contain more or less of a brownish coaly matter, and that in common with the other strata of which the hill consists, they are traversed by veins of calcareous spar.

(c) *Organic remains.* These are lymneus, planorbis, and cyclostoma, and perhaps the helix, and a bivalve resembling the fresh-water mytilus. The casts of the shells in the East Cowes beds are frequently entire, and belong to the genus cyclostoma, Lam. No marine exuviae have been observed in these beds.

(d) *Range and extent.* The beds of this formation in Headon hill are extremely irregular, and are not to be traced distinctly from each other for more than a few hundred yards, the remaining part being so hid by the mouldering slope, that the formation can only be observed in mass. It may be seen, how-