

(bb) *Mineral contents.* The beds at Portland and Tisbury contain beautiful yellow sulphate of barytes (sugar candy stone) and crystallized calcareous spar. (G. Notes.)

In the next quarry, the third bed (7) is in two layers; the lower of these is free from shells, except about one foot of its top, and the upper one contains very few shells.

We visited four other quarries on this side of the island; but as they do not differ materially from the above, it would be improper to repeat my observations.

Under the foregoing marketable stone, many layers of flint and unserviceable stone, to the depth of about 50 feet.

On the east side of Portland, the whole thickness of the stony strata, is about 93 feet, and beneath that is black blue shiver of great thickness.

*Sections of Quarries on the West side of Portland.*

In the first quarry we visited, I found the vegetable mould, the stone brash, and the beds of hard stone cap, similar to what they are on the east side of the island. But in this place the marketable stone is about 11½ feet thick, in one bed; whereof about 2½ feet of the top is egg-shaped.

In the adjoining quarry immediately under the Cap (4) is Roach (a mass of fragments of oyster shells compressed and cemented in a very hard stone) six feet thick, upon a bed of the best saleable stone nine feet thick.

The third quarry is similar to the two former, down to the Roach, which in this case is five feet thick, and united to the best stone without any parting. In this quarry the Roach was cut into blocks and sent to Millbank, Westminster, for building the abutment of Vauxhall bridge. And many others of these blocks were prepared for the same purpose, but they remain in the quarry at this time. (Aug. 1812.)

In the fourth quarry the Roach is in the same state as in the third quarry, but reduced to three feet thick, and at this place the best stone is 11 feet.

	feet.
In Gosling's quarry, the stone brash and two beds of the Cap, are increased in thickness to .....	20
<i>Roach</i> in one bed 4 feet, and two other feet of it are united to the top of the <i>White bed</i> , together.....	6
5 <i>White bed</i> , a marketable stone, exclusive of the two feet of <i>Roach</i> which are united to it.....	8
Many layers of flint and stony rubbish, including one bed of a white tender stone, which is not fit for great exposure....	6
6. Two other beds of <i>Roach</i> in the place of the middle bed of saleable stone ..	6
7. The <i>Third bed</i> (7) of saleable stone, contrary to the usual order, is not near such good stone as the <i>White bed</i> (5) in this quarry .....	6
The above marketable and other stone lies upon many layers of flints, and beds of unserviceable stone to the depth of about.....	55 or 60

The whole of the stony strata in this place is about 112

And under that is black blue shiver several hundred feet thick, whereof there are about 100 feet above the level of the sea.