

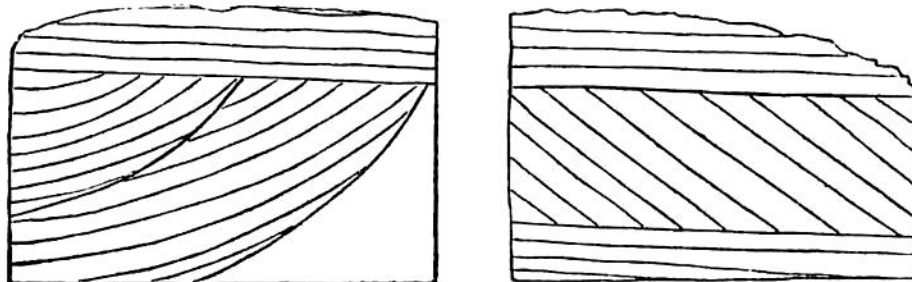
This range, like that of the chalk, is entirely broken through by many vallies; such are those of the Yorkshire Derwent, of the Humber, of the Witham in Lincolnshire, of the Charwell and Evenlode in Oxfordshire, and of most of the streams which join the Somersetshire Avon on the south of Bath; especially the branch of that river which flows from Emborrow Mere at the foot of the Mendips by Mells and Froome.

The insulated hills advanced beyond the chain in Gloucestershire have been already mentioned, but they generally belong rather to the inferior oolite than to the beds of which we are now treating. Many of the ranges near Bath, as Lansdown, Claverton Down, &c. which are capped with the great oolite, are, from the course of the last mentioned vallies through them, completely insulated. (See the particulars in the account of the range of these beds.)

(*f*) *Thickness.* The thickness of these beds is given in the list at the beginning of the present section for the neighbourhood of Bath: altogether they may be taken in round numbers at about 250 feet in this district.

On Farley Down near Bath, on Coombe Down, and in several other places near Bath, wells have been sunk through the great oolite to the depth of 100 to 130 feet. (T. 129.) The actual thickness of this bed alone seems here to vary from 130 to 150 feet, but it must be considerably thicker in the northern parts of the Cotswolds, as must the superior beds on the south of Cirencester: 400 feet would probably be not an excessive allowance for the whole series in their thickest part.

(*g*) *Inclination.* The great oolite has a gentle dip towards the south-east, as have all the beds of this formation; there are however some apparent local exceptions which merit notice, more perhaps from their singularity, than from possessing any real importance. The following sections, afforded by quarries between Cross Hands and Petty France in Gloucestershire, are communicated by H. J. Brooke, Esq. M.G.S. who also referred us to a somewhat similar section of a quarry at Coombe Down near Bath, in the Monthly Magazine, with a description by J. H. Moggridge, dated March 17, 1796.*



* It would be difficult to imagine that these beds, so differently circum-