

shire to Aynhoe on the borders of Oxfordshire, and near the banks of the river Cherwell. It crosses that river between the vilages of Steeple Ashton and North Aston.* Close to the brow of North Aston hill, near the road from Oxford to Banbury, may be seen a junction of the fullers' earth rock or lowest bed of the oolite with the subjacent sand, and below this, near the bottom of the valley between it and Deddington, a subsided mass of the same rock.

From North Aston the junction passes by Duns Tew, and then crosses the valley on the south to Worton Wood on the north of Sandford. The oolitic beds then keep the summit of this hill to Great Tew,† and thence range about half a mile on the north-west of Swerford, forming a terrace above the general ridge of the sand hills near that town. In the valley, however, between Swerford and Great Rolwright, they are thrown down by a considerable subsidence, pitching in a steep angle towards its bottom, which they cross close to the entrance of Swerford park; and lying here, as in a hollow trough, again rise towards Great Rolwright. The ridge of Rolwright hill, as far as Cornwell on the confines of Worcester, Gloucester, and Oxfordshire, forms the extreme line of the great oolite; but its lower beds are here very sandy, and not to be distinguished without difficulty from the substrata. The same construction prevails in Chipping Norton hill; the valley separating these hills, and those intersecting their branches, exhibiting the sandy substrata. The junction passes by the hamlet of Churchill, and crosses the Evenlode near Ascot d'Oiley on the east of Shipton near Whichwood.‡

On the north of the line above described, between the Cherwell and the Evenlode, is an extensive district occupied by the brown ferruginous sands so often mentioned as forming the substratum on which the oolites repose in this part of their course. Several long and somewhat lofty ridges, connected on the north with the table land of Edge hill, are constituted by these beds; but in the lower situations throughout this tract, are scattered several of those remarkable insu-

* Mr. Smith's representation of the line of this junction through Oxfordshire, in all his Maps, is purely imaginary; it can indeed only be traced by continued residence on the spot, which is the authority on which the above particulars are given. The representation in Mr. Greenough's Map is perfectly correct: we have been particular in stating the details, as they have never yet been presented to the public.

† The vallies within this tract, however, occasionally expose the subjacent sandy beds by denudation, as may be seen at Gagingwell near Euston.

‡ Mr. Greenough's Map carries the inferior oolite too far eastwards along this valley.