

The detailed sections that are given on later pages furnish examples of the different materials that constitute the Yorktown formation.

*Thickness.*—The Yorktown formation is of variable thickness, depending somewhat upon the amount of erosion which it has suffered since its deposition. In Hertford, Bertie, Martin, Beaufort, and Craven counties it is rather thin, probably never more than 50 feet in thickness. It may thicken to the eastward, as the Coastal Plain formations so frequently do, though we have no evidence that such is the case in regard to this formation.

The different areas of the Yorktown formation may perhaps represent somewhat different horizons, in which case the total thickness may be somewhat greater. Until the paleontologic investigations have been carried farther it will not be possible to determine this point.

The great beds of shell marl that form such an important part of the Yorktown formation have yielded a great variety of fossils.

Lists of fossils from different localities are given in the detailed sections on a later page and show the rich fauna obtained from the Yorktown formation in this State. Beside the forms that have been determined, there are many other new species from almost every locality from whence collections have been made that have as yet not been described. When the fauna of the Yorktown formation is completely described it will probably be found to be one of the richest faunas in numbers of species represented in this country. The fossils from Yorktown, Va., have been more carefully studied up to the present time than those from any locality in the Yorktown formation in North Carolina, and for that reason the list of species identified by Dr. Dall from that locality is given.

## FOSSILS FROM YORKTOWN, VA.

## GASTROPODA :

*Anachis harrisii* Dall.

*Calliostoma* sp.

*Calliostoma briani* Conrad.

*Calliostoma distans* Conrad.

*Calliostoma harrisii* Dall.

*Calliostoma mitchelli* Conrad.

*Calliostoma ruffini* H. C. Lea.

*Calliostoma philanthropus* var. *basicum* Dall.

*Calliostoma philanthropus* Conrad  
vars.

*Calliostoma virginicum* Conrad.

*Caecum stervensoni* Meyer.

*Caecum virginianum* Meyer.

*Clathurella* sp.

*Conus diluvianus* Green.

*Crepidula aculeata* Gmelin var. *costata* Morton.

*Crepidula fornicata* Say.

*Crepidula plana* Say.

*Creseis recta* Blainville.

*Crucibulum ramosum* Conrad.

*Drillia* sp.

*Drillia* sp.

*Drillia cburnea* Conrad.

*Drillia tricatena* Conrad.

*Ecphora quadricostata* Say.

*Fissurella* sp.

*Fissurella marylandica* (Conrad).

*Fissurella redimicula* (Say).

*Ilyanassa granifera* Conrad.