The coarse pebbles of the Shawangunk, many more than an inch in diameter, furnish evidence of strong currents and probably steep slopes of the land mass to the southeast that furnished the material.

Later sedimentary Paleozoic history is not preserved in Northampton County although it is probable that some and perhaps all of the later Silurian, Devonian, Mississippian and Pennsylvanian formations exposed in the regions to the northwest in neighboring counties may have once extended into this county. If so, they have been entirely removed by subsequent erosion.

**Appalachian Revolution**

The Paleozoic era in the Appalachian region ended by one of the most profound periods of uplift, folding and faulting that has ever taken place. Thousands of feet of rocks were folded by compressive forces coming from the southeast as though they were mere sheets of paper. These movements, added to those that deformed the earlier strata at the close of the Ordovician, made the complex and baffling structures so characteristic of Northampton County.

**Triassic History**

The only record of events of the Northampton County area during the Triassic period is found in Flint Hill, a small sector of which is contained in the most southerly corner of the county. The prevailing red shales and conglomerates found there are part of a great series of deposits formed in bays, low-lying valleys or estuaries that extend from Massachusetts to North Carolina. The deposits may have extended somewhat farther north of the present limits at one time.

**Glacial History**

In the Pleistocene period this region was invaded by a lobe of the great ice sheet that originated in eastern Canada. Although the erosional and depositional work of the ice profoundly modified much of the New York and New England regions, this section reveals few evidences of its work. It passed through the valley, probably covering practically all the area between Kittatiny (Blue) Mountain and South Mountain, with a slight advance into the Saucon Valley. The ice in this advance seems to have been thin so that the amount of erosion was trivial. Deposition throughout most of the county was of little consequence except in some depressions, such as old stream valleys and solution holes in the limestones.

The only decided changes in the topography are in the belt of the terminal moraine, Belvidere-Pen Argyl region. Here there are many low irregular hills entirely composed of glacial debris.