

9 **Manlius limestone.** This formation which is nearly 35 feet thick carries a typical Manlius limestone fauna. The fossils in some cases are not well preserved. This is specially true of *Tentaculites gyracanthus* Eaton, of which well preserved specimens are rare. From the Nearpass section, however, on the reverse side of a thin slab collected for specimens of *Megambonia aviculoidea* Hall, there was found *Tentaculites gyracanthus* equally as abundant as in the sections farther north in New York State. They are however in a very poor state of preservation and may readily be passed unnoticed.

ORANGE COUNTY SECTIONS

In the section a short distance southeast of Port Jervis at Carpenters Point neither the Cobleskill nor the Decker Ferry formations can be observed, though several members of the Helderbergian are shown at this locality. About 2 miles farther north from Carpenters Point the Erie Railroad crosses these formations but they are all too deeply covered to show any outcrops.

The best place in Orange county for the examination of the Cobleskill and Decker Ferry formations is in the valley of the Neversink about 8 miles north of Port Jervis and 1 mile east of Cuddebackville. Here there are a number of parallel ridges which include not only the Cobleskill and Decker Ferry formations, but the Rondout and Manlius together with the Helderbergian members of the Devonian.

About 1 mile southeast from Cuddebackville there is an old quarry with a limekiln near by. The beds here are nearly vertical, and just to the east of the quarry the Cobleskill together with the upper part of the Decker Ferry formation is shown. The rock is here much sheared and is traversed by mineral veins. This outcrop of the Cobleskill and others in the vicinity of the same horizon are noted by Ries¹ and are included by him with the Tentaculite (Manlius) limestone. The lower part of this outcrop is not favorable for collecting but in the upper part

¹ N. Y. State Geol. 15th An. Rep't. 1898. p. 430, 433.