

those that have previously been described, and that may be provisionally named and characterized as follows :

*TRIMERELLA EQUANENSIS* (Sp. nov.).

Plate II, figs. 1 & 2, and Plate III, fig. 1.

Shell rather large, attaining to a length of upwards of three inches. Pedicle valve flattened somewhat obliquely, most convex and deepest at a short distance from the beak, nearly as wide as long, broadly rounded in front, more narrowly rounded at the sides, and obtusely pointed behind, the umbo and beak being moderately produced, their lateral margins meeting at an angle of about  $98^\circ$ , and the beak gently incurved. Characters of the interior of this valve unknown.

Brachial valve regularly but moderately convex, most prominent externally at or about the midlength, a little wider than long, broadly rounded in front and less so at the sides, as in the pedicle valve, but abruptly contracted at the umbo, which is narrowly rounded and but slightly produced, while its beak is strongly incurved and recurved. Casts of the interior of this valve are marked with a longitudinal, linear, median groove, that represents the median plate and that extends from the umbo almost to the front margin, also with a lateral and slightly divergent linear groove, on each side, that extends from the umbo to a little beyond the midlength.

Surface of both valves marked only with a few distant concentric lines of growth.

Falls of the Equan River ; one imperfect and badly preserved specimen with both valves *in situ*, a nearly perfect pedicle valve, three imperfect brachial valves with most of the test preserved, and a cast of the interior of a large brachial valve.

Judging by these specimens, this species would appear to belong to the group of *T. acuminata* rather than to that of *T. grandis*, though it seems to be always much shorter and wider than *T. acuminata*, *T. Ohioensis*, or *T. Lindstræmii*. The marginal contour of its brachial valve is not very unlike that of *T. Lindstræmii*, but in the latter this valve is represented as flattened anteriorly to the umbo, and its pedicle valve has quite a different