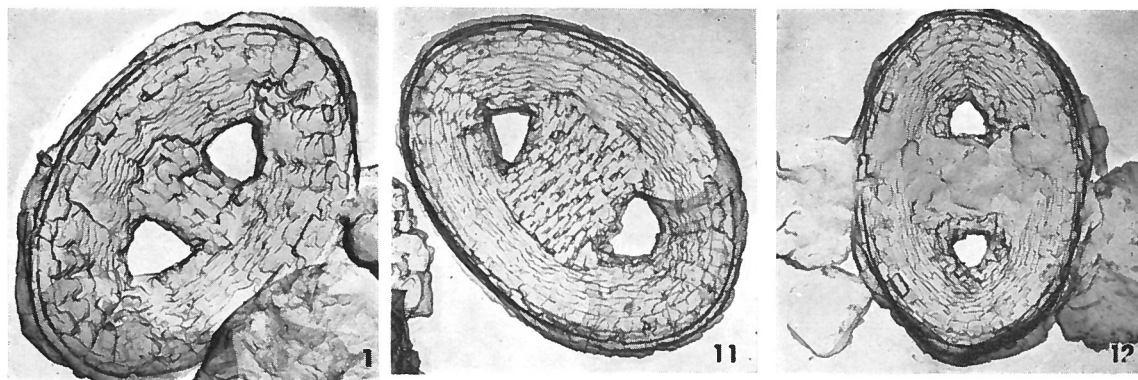


**Percivalia pontilitha** BUKRY, 1969



Figs. 1, 11, 12 — *Percivalia pontilitha* BUKRY, n. sp., 1) proximal view, x 10,800; 11) holotype, proximal x 8080; 12) proximal, x 8750.

**Description:**

This elliptical coccolith has the same distinctive tiers of elements that occur in the proximal view of *Percivalia porosa* BUKRY, n. sp. Instead of a complex central-area structure only a single bar bridges the area. The eccentricity of the apparent margin is 1.3 to 1.5. In proximal view the inner part of the rim is composed of 14 to 16 tiers of 13 to 17 elements each. The rim surface is abcentrally sloped. Elements in adjacent tiers are regularly offset to create a distinctive « woven » aspect. In the outer part of the rim the edges of 3 overlapping cycles of about 36 radially aligned elements are observed. The actual peripheral rim cycle is largely removed from all the specimens examined. The elements that remain allow an estimate of 36 radial elements to be made. The central area is a narrow opening that occupies 47 to 52 percent of the coccolith length. However, a wide crossbar along the short axis of the ellipse fills in 44 to 63 percent of the central area and thus forms 2 perforations. The crossbar is constructed of 5 to 13 small rows of elements aligned with the ellipse short axis.

Maximum diameter: 6.8  $\mu$ .

**Remarks:**

No distal views of this form were observed. This species shares the same style rim with *Percivalia porosa* BUKRY, n. sp., but is easily distinguished by the single crossbar and smaller number of elements in the inner-tier cycles.

**Type level:**

Early Campanian (Lower Taylor Marl).

Known range: Campanian.

**Type locality:**

Lake Waxahachie, Ellis County, Texas, U.S.A.

**Depository:**

Geology Department of the University of Illinois, Urbana, Illinois. Holotype, UI-H-3384, proximal view (fig. 11). Paratypes, UI-H-3381 through UI-H-3383.

**Author:**

Bukry D., 1969, p. 54; pl. 30, figs. 11, 12; pl. 31, fig. 1.

**Reference:**

Upper Cretaceous Coccoliths from Texas and Europe. Univ. Kansas Paleont. Contr., Art. 51, (Protista 2), 79 pp., 40 pls., 1 text-fig.