



PLATE 8

## **Explanation of Plate 8.**

All figures 3 times natural size.

*Lophamplexus eliasi*, n. gen., n. sp., from the Council Grove group, Lower Permian, in southern Kansas and northern Oklahoma.

**1**—Side view of a specimen from the Hughes Creek shale member of the Foraker limestone, 1 mile north and 2 miles west of Fairfax, Osage county, Okla. The position of transverse sections shown on plate 3 is indicated. (Univ. Kansas no. 67581).

**2**—Side view of the type specimen, the cardinal septum in the middle part of the view. The top of the specimen is a cut and polished section; other transverse sections shown on plate 3 are located at positions marked. The geniculation slightly above midheight marks rejuvenation by calicinal budding. Beattie limestone, in sec. 15, T. 31 S., R. 8 E., near Grand Summit, Kans. (Univ. Kansas no. 23292).

*Leonardophyllum acus*, n. gen., n. sp., from the lower part of the Leonard series at saddle north of Leonard Mountain, Glass Mountains, north of Marathon, Tex.

**3**—Apical part of corallite, the top being a polished section (plate 2, figure 5). The transversely wrinkled but otherwise smooth nature of the surface of the corallite is shown. (Univ. Kansas no. 74166).

*Leonardophyllum distinctum*, n. gen., n. sp., from the lower part of the Leonard series on the Hess ranch, Glass Mountains, north of Marathon, Tex.

**4**—Side view of typical specimen showing cylindrical form and the nearly smooth, transversely corrugated surface. (Univ. Kansas no. 74165).

*Heritschia girtyi*, n. gen., n. sp., from the upper Florence limestone in sec. 23, T. 27 S., R. 6 E., Butler County, Kansas.

**5**—Vertical view of the deep calyx of the specimen shown in plate 7, figure 1a, showing the sharp-walled appearance of the pit and the laterally compressed form of the column. (Univ. Kansas no. 77551).

*Timorphyllum simulans*, n. sp., from the lower part of the Leonard series at saddle north of Leonard Mountain, Glass Mountains north of Marathon, Tex.

**6**—Side view of a corallite showing the nearly smooth, transversely wrinkled surface. (Univ. Kansas no. 7416-22a).

*Duplophyllum septarugosum*, n. sp., from the Leonard series at Clay Slide, 2 miles west of Iron Mountain, Glass Mountains, north of Marathon, Tex.

**7**—Side view of specimen showing transverse corrugations and fine growth lines. The position of transverse sections shown on plate 6 is indicated. (Univ. Kansas no. 74143).

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