

PLATE 31.

FAVOSITES LIMITARIS.

Devonian.

1. Lateral view of the upper fronds of a corallum, partly freed from its matrix, in which the corallets at their orifices are more oblique to the axis than is common; from the Lower Devonian, Falls of the Ohio. Collection of Mr. McConathy.

FAVOSITES CARIOSUS, Nov. Spec.

Devonian.

2. Front lateral view (prostrate) of the base and trunk of a corallum, from the ferruginous clay of the Lower Devonian, near Louisville. Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 31.

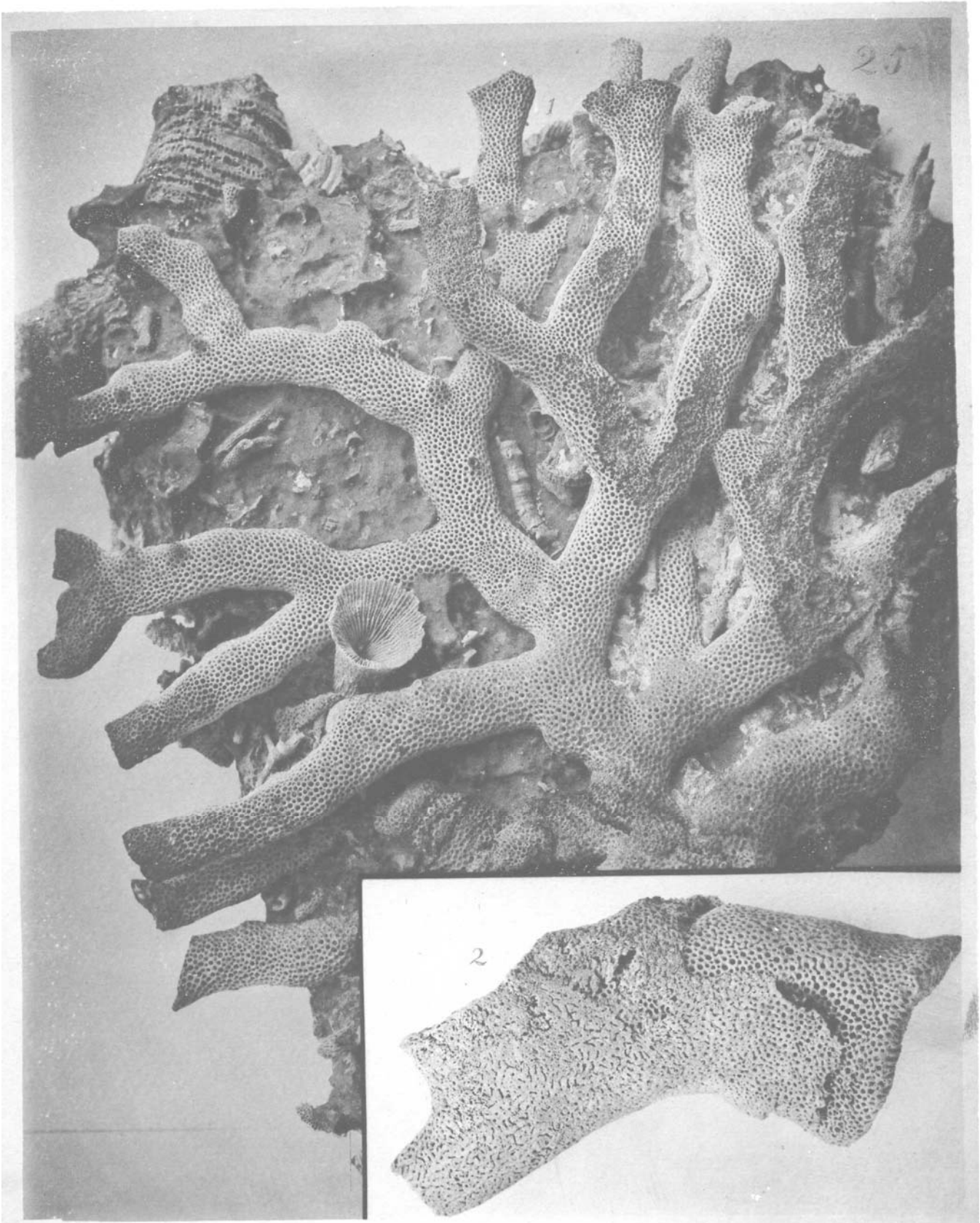


PLATE 32.

FAVOSITES CARIOSUS, Nov. Spec.

Devonian.

1. Rear lateral view of the base and trunk of the example figured in Plate 31.
2. Bear lateral view of a typically marked fragment of a frond, artificially attached to the matrix of example 3 for delineation; from the horizon and locality of the preceding specimen. Collection of the author.
4. Front lateral view of a fragment from the Lower Devonian rocks, Falls of the Ohio. Collection of the author.

FAVOSITES INTERTEXTUS.

Devonian.

3. Lateral views of portions of fronds imbedded in the matrix, from the Lower Devonian, Falls of the Ohio. Collection of Dr. Knapp.

FAVOSITES EMMONSI.

Devonian.

5. Vertical section of a fragment (prostrate) showing the squamous tubes and incomplete tabulae proper to the species; from the Lower Devonian, near Louisville. Collection of Dr. Knapp.

MICHELINIA CYLINDRICA.

Devonian.

6. Longitudinal section of a fragment showing the complicated sub-vesicular tabulae; from the blue clay of the Middle Devonian, Falls of the Ohio. Collection of Dr. Knapp.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 32.

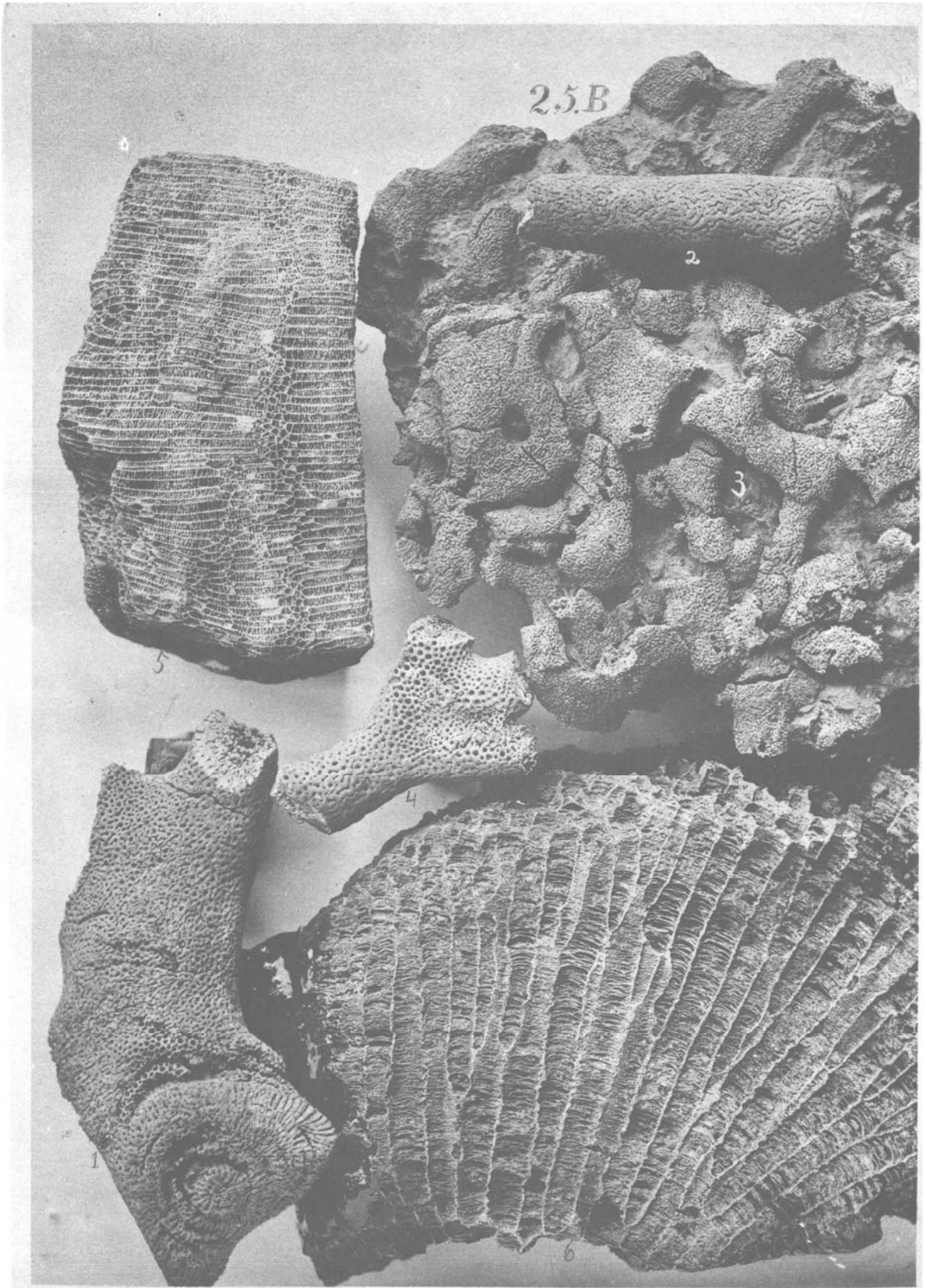


PLATE 33.

FAVOSITES CAVERNOSUS.

Devonian.

1. Lateral view of the base and fronds of a nearly perfect corallum, from the Middle Devonian, Falls of the Ohio. Collection of the author.
2. Well preserved fragment from the same horizon, east of Louisville. Collection of the author.
3. 4. 5. Fragments such as are commonly obtained, with walls abnormally incrassated; from the encrinal limestone clay of the Upper Devonian, near Louisville. Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 33.

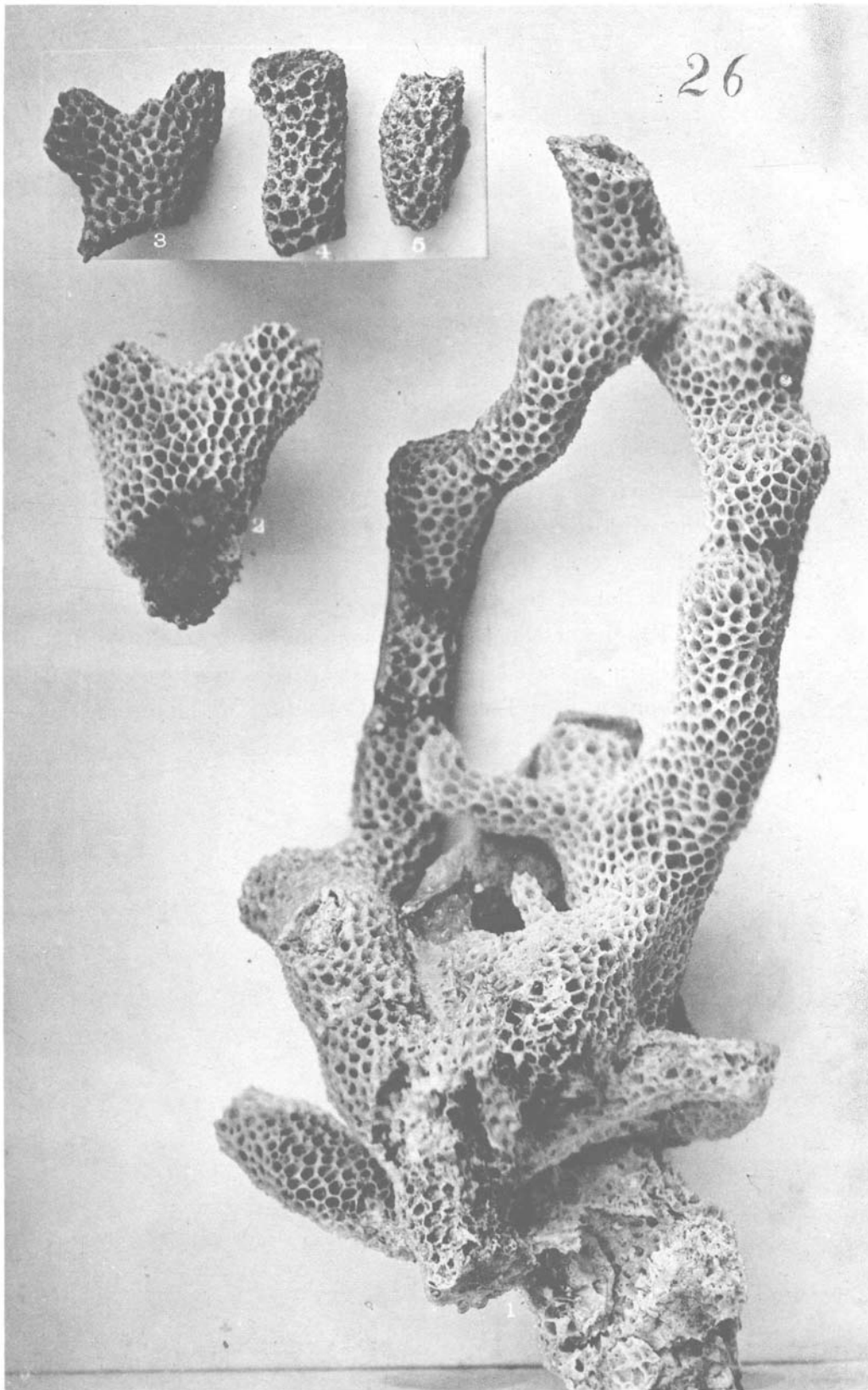


PLATE 34.

THECIA MAJOR.

Niagara.

1. Upper surface of a corallum, gathered from its rock matrix twenty-five feet below the Niagara and Devonian passage-beds, near Louisville. Collection of the author.
2. Under surface of a corallum, covered with an epitheca, from the white clay five feet below the passage-beds, near Louisville. Collection of the author.
3. Upper surface of a fragment from the ferruginous clay of the Upper Niagara strata, near Louisville. Collection of the author.

THECIA MINOR.

Niagara.

4. Upper surface of a portion of a corallum from the upper white clay beds, near Louisville. Collection of the author.
7. Upper surface of calcified tube-casts of a corallum [*Labechia conferta*].

THECIA SWINDERNANA.

Niagara.

5. Upper surface of a fragment from the upper red clay strata, near Louisville. Collection of Mr. Nettelroth.
6. Upper surface of portion of a corallum from the white clay eight feet below the passage-beds, near Louisville. Collection of the author.

THECIA VETUSTA.

Hudson River Group.

8. Upper surface of a corallum incrusting *Streptorhyncus planumbonus*, near Milton, Ky. Collection of the author.
9. 10. Similar views of coralla from the same horizon and locality. Collection of Mr. Nettelroth.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 34.

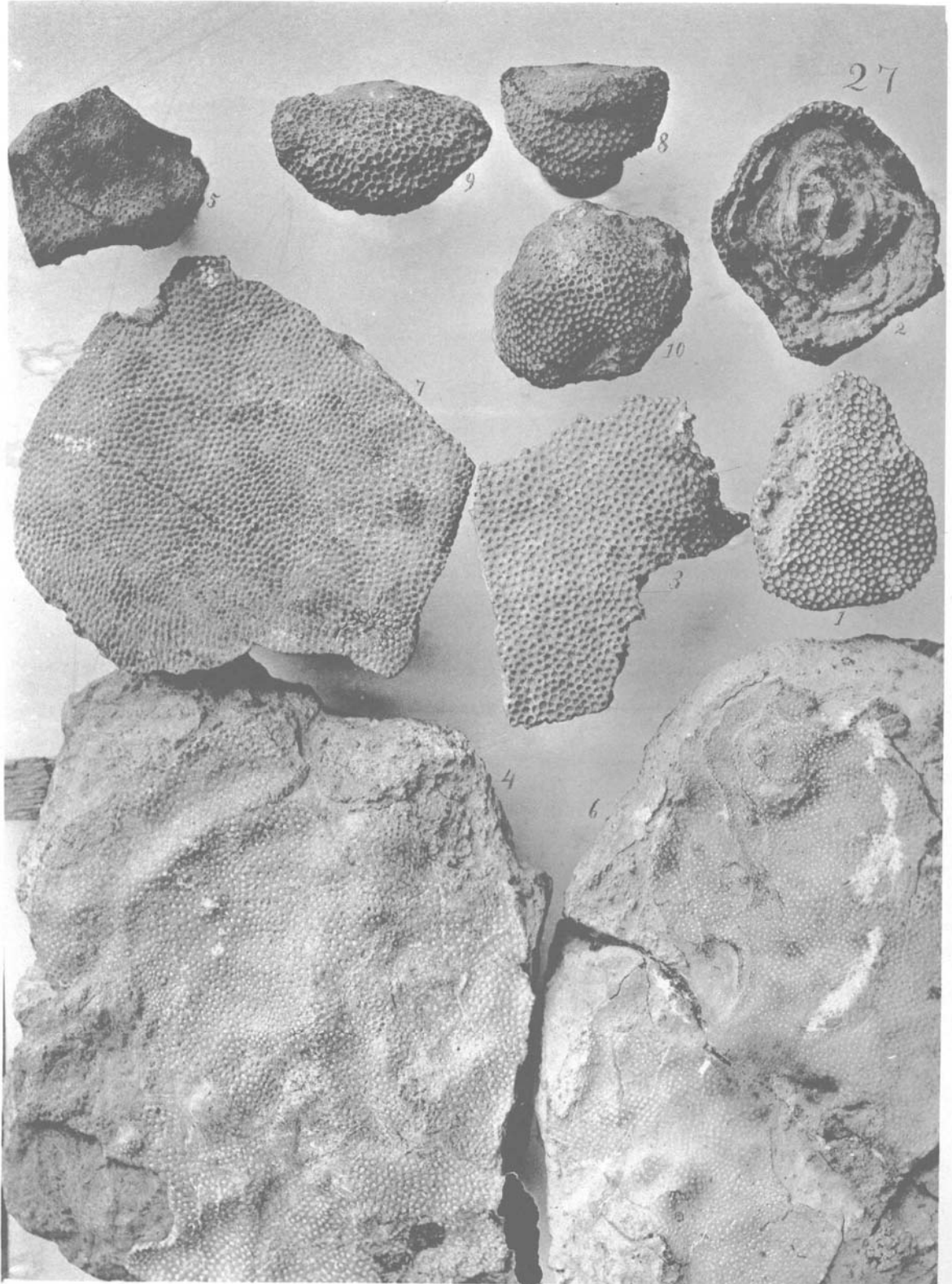


PLATE 35.

THECIA RAMOSA.

Devonian.

1. Lateral view of a nearly perfect corallum from the Lower Devonian, Falls of the Ohio. Collection of the author.

[NOTE.—The apex of growth of this example is just above the figure 1.]

2. Upper portion of a frond (inverted) from the same horizon and place. Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 35.



PLATE 36.

MICHELINIA CYLINDRICA.

Devonian.

Upper surface of a corallum from the red clay of the Middle Devonian,
near Louisville. Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 36.

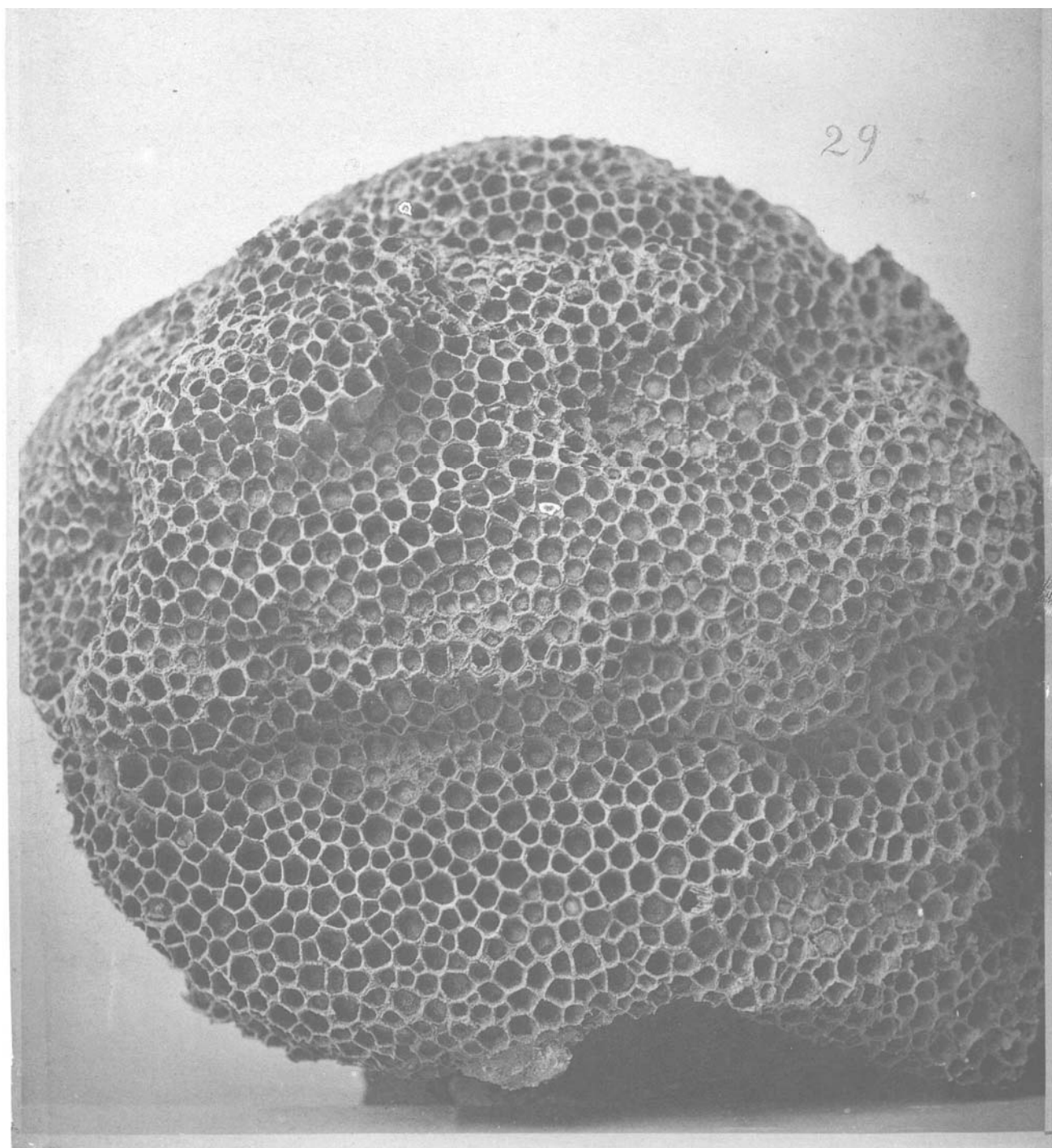


PLATE 37.

MICHELINIA FAVOSITOIDEA.

Devonian.

Upper surface of a corallum from the blue clay of the Middle Devonian

Falls of the Ohio. Collection of the author.

[NOTE.—With a lens of low power observe the papillose surface of the tabulae and of the walls, the latter dotting the longitudinal ridges. The author recommends the use of a double-convex lens, with a power of about two diameters, in examining all the illustrations of this work. Viewed with such a lens, all characteristic structural details will appear as they seem in the fossil itself, and "an atmosphere" so invests the figure that it may be studied almost as advantageously as the natural object.]

KENTUCKY GEOLOGICAL SURVEY.

PLATE 37.

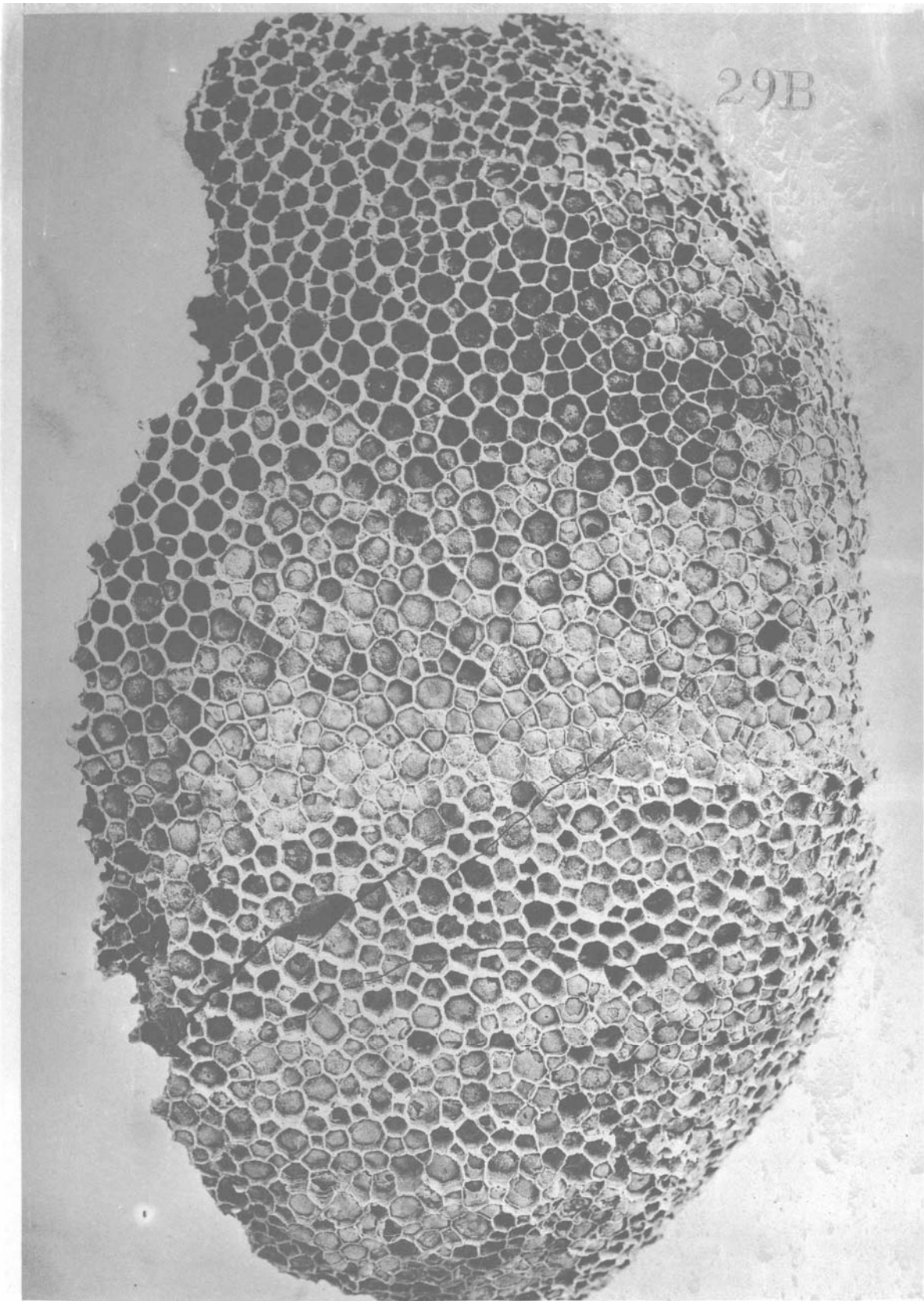


PLATE 38.

MICHELINIA PLANA, Nov. Spec.

Devonian.

1. Upper surface of a corallum from the encrinal limestone clay of the Upper Devonian, near Louisville. Collection of the author.
2. Under surface of a corallum, with epitheca partially preserved, from the yellow clay of the Upper Devonian, near Crab Orchard, Ky. Collection of the author.

MICHELINIA FAVOSITOIDEA.

Devonian.

3. Upper surface of a fragment from the red clay of the Middle Devonian, near Louisville. Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 38.

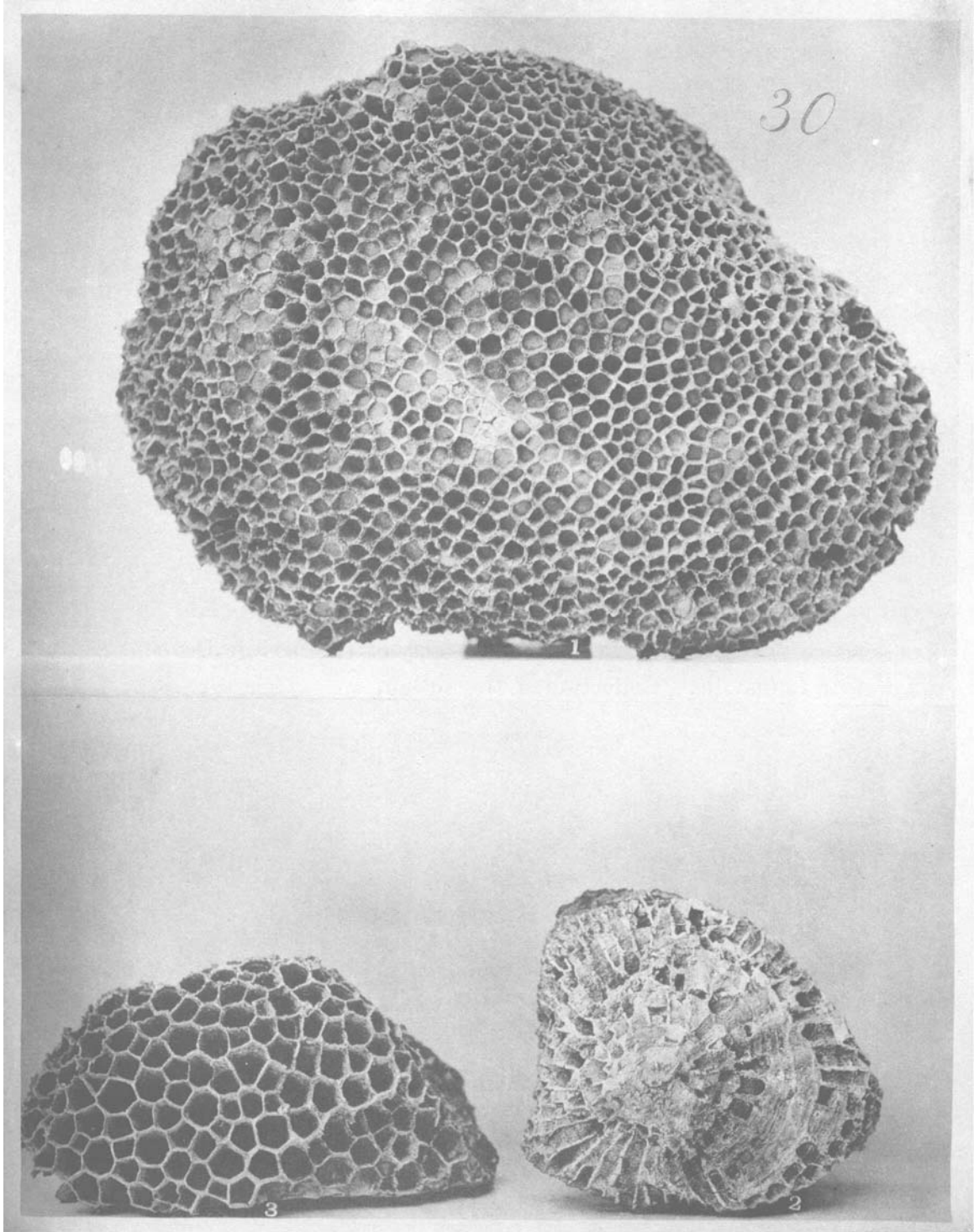


PLATE 39.

MICHELINIA CORRUGATA, Nov. Spec.

Devonian.

1. Upper surface of a corallum from the Middle Devonian, Falls of the Ohio. Collection of the author.

MICHELINIA NIAGARENSIS, Nov. Spec.

Niagara.

2. Portion of the upper surface of a corallum from the Upper Niagara white clay, near Louisville. Collection of the author.

MICHELINIA PRIMA, Nov. Spec.

Niagara.

3. Upper surface of a weathered specimen, in which the walls of the several corallites are seen separated; from the white clay of the Upper Niagara, near Louisville. Collection of the author.
4. Artificially attached to Figure 6 is a corallum whose lateral view showing epitheca is presented. Not photographed satisfactorily on account of its color. From the same horizon, near Louisville, as example 3. Collection of the author.
5. Upper surface of a fragment showing tube-walls delicately spinulose, in exquisite preservation; from the same horizon and place as the preceding example. Collection of Mr. McConathy.

MICHELINIA PLANA, Nov. Spec.

Devonian.

6. Lateral view of a corallum from the dark red clay beds derived from the encrinural limestone of the Upper Devonian, near Louisville. Collection of the author.

MICHELINIA INSIGNIS.

Devonian.

7. Upper surface of a corallum whose corallites have thinner walls than the average specimen; from the encrinural limestone clay of the Upper Devonian, near Louisville. Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 39.

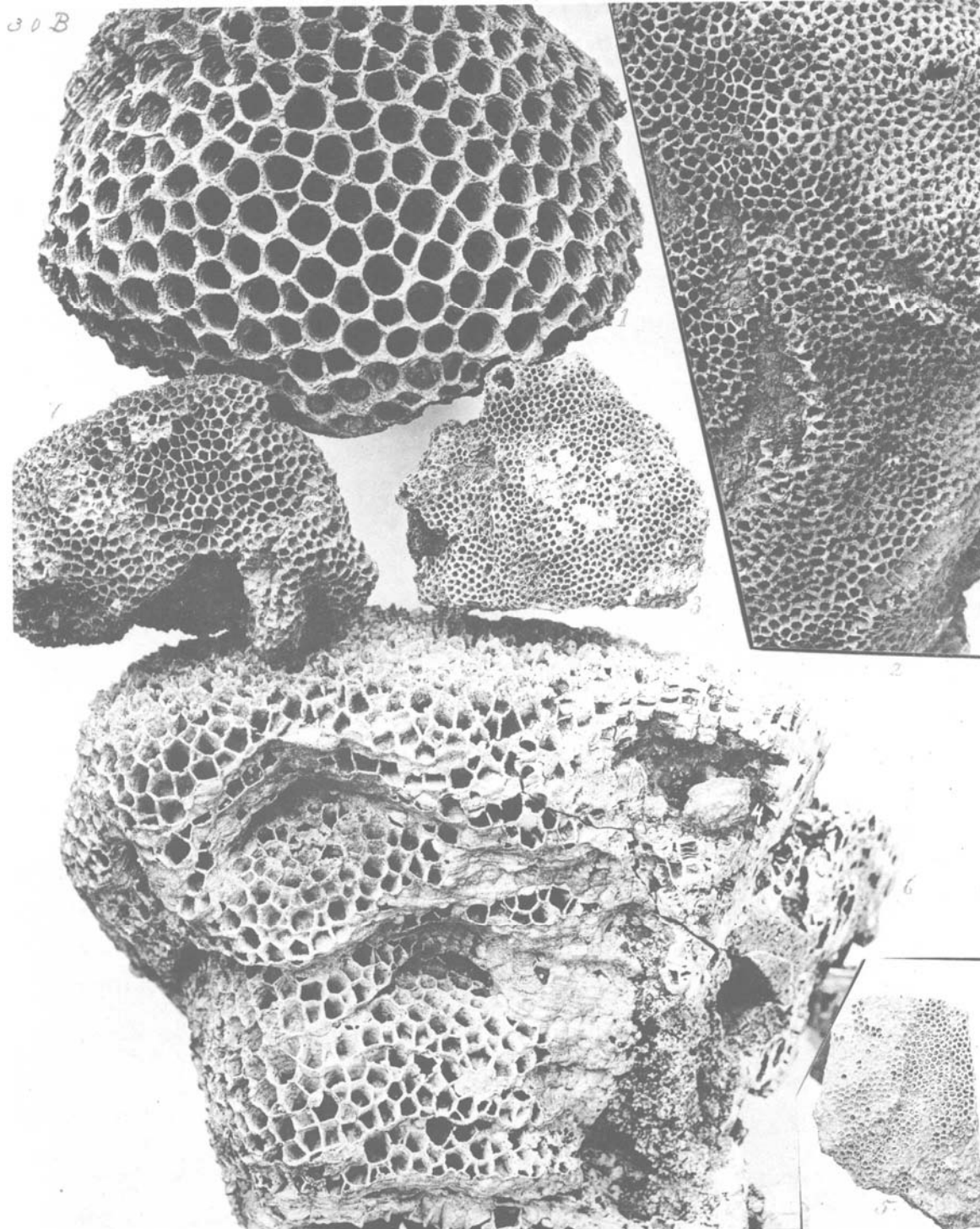


PLATE 40.

MICHELINIA PRIMA, Nov. Spec.

Niagara.

1. Under surface of corallum previously figured in Plate 39; Fig. 4.

MICHELINIA PLANA, Nov. Spec.

Devonian.

2. Longitudinal section of a fragment from which the tabulae are removed so as to show the mural pores; from the encrinal limestone clay of the Upper Devonian, near Louisville. Collection of the author.
3. Longitudinal section of a fragment showing tabulae; from the horizon and locality of the preceding example. Collection of the author.

MICHELINIA INSIGNIS.

Devonian.

4. Oblique view of the upper surface of a corallum, from the encrinal limestone clay of the Upper Devonian, near Louisville. Collection of the author.
5. Upper surface of a corallum from the horizon and locality of example 4. Collection of the author.
6. Vertical section of a corallum, showing tabulae, from the same horizon and locality as the preceding examples. Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 40.

