

PLATE 61.

CLADOPORA DISPANSA, Nov. Spec.

*Devonian.*

1. Upper surface of a cymous corallum from the Lower Devonian, Falls of the Ohio.
2. Lateral view of a cyme of unusual altitude, from the horizon and neighborhood of example 1.
3. Under surface of a fragment of typical growth, from the horizon and vicinage of examples 1 and 2.

PLATYAXUM (Nov. Gen.) CORIOIDEUM, Nov. Spec.

*Devonian.*

4. Front lateral view (prostrate) of a portion of a frond from the Lower Devonian, Falls of the Ohio. The inner walls of the coralllets of the rear side are seen springing from the plane axis in the left lower corner of the specimen.

These specimens belong to the private collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 61.

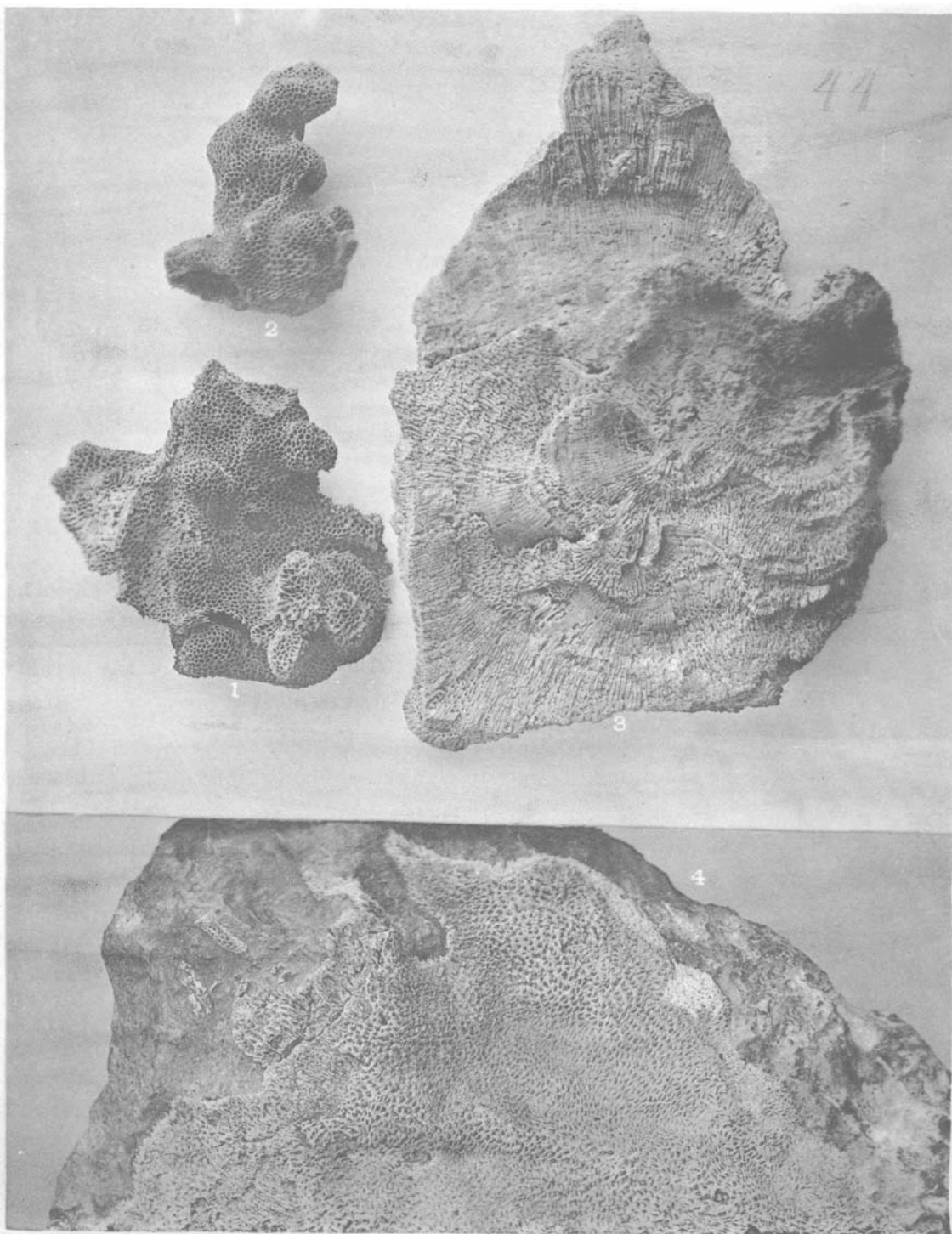


PLATE 62.

CLADOPORA DISPANSA, Nov. Spec.

*Devonian.*

1. Upper surface of a sub-cymous corallum from the Lower Devonian,  
Falls of the Ohio. Collection of the author.

CLADOPORA CRASSA, Nov. Spec.

*Devonian.*

2. Upper surface of a fragment of typical growth.
  3. Upper surface of a specimen with coralllets less erect than those of  
the preceding example.
- Both specimens from the Lower Devonian strata, Falls of the Ohio.  
Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 62.

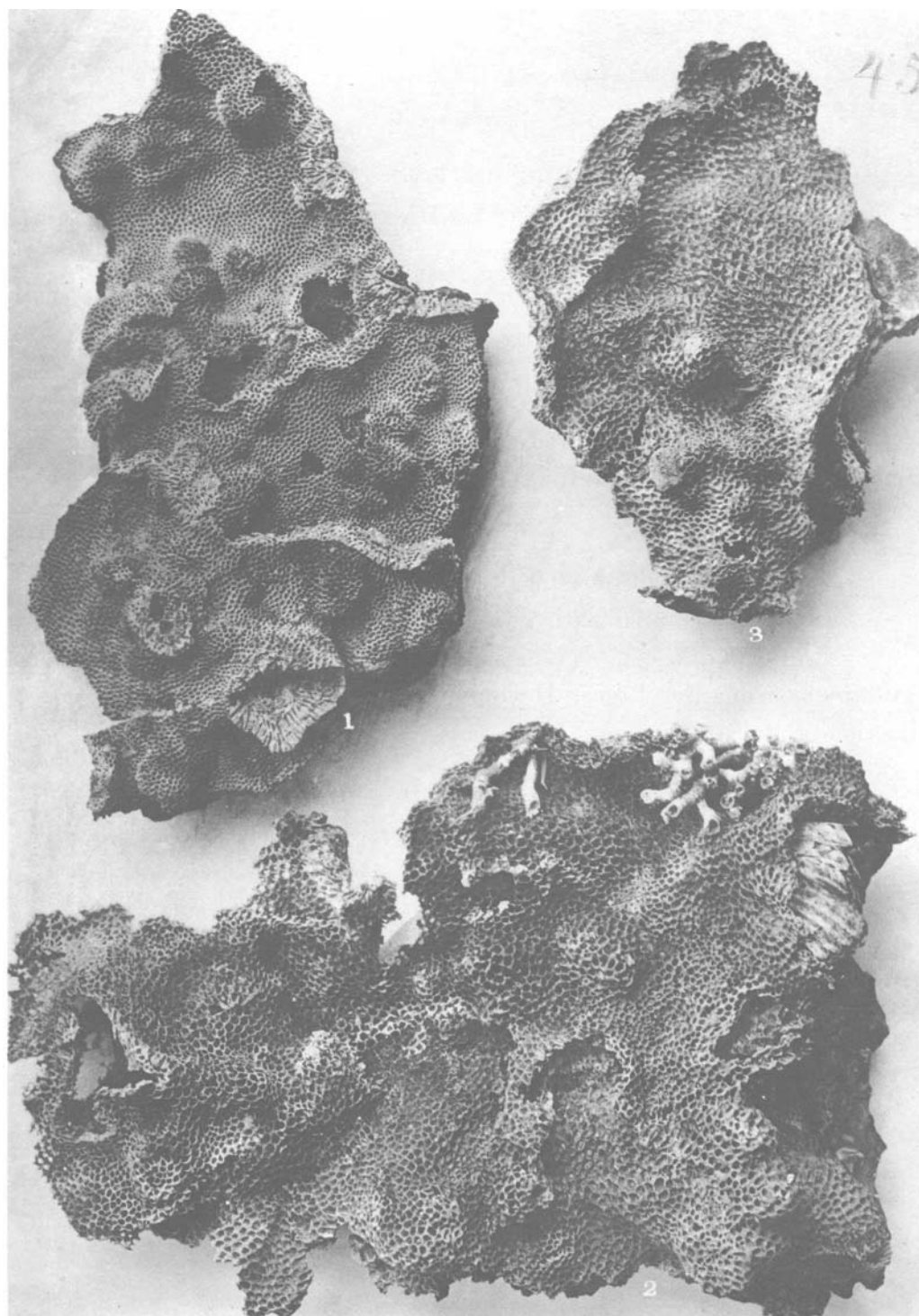


PLATE 63.

CLADOPORA DENTATA, Nov. Spec.

*Devonian.*

1. Front lateral view of a corallum from the Lower Devonian, Falls of the Ohio.
2. Fragment of a frond from the ferruginous clay of the Lower Devonian, near Louisville.
3. Portion of a pedicle obtained *in situ* two feet above the horizon of example 1, Falls of the Ohio.

CLADOPORA RICTA, Nov. Spec.

*Devonian.*

4. Bear view of a fragment showing fronds laterally joined by approximation.
  5. Front lateral view of the base of an example.
- Both specimens gathered from the Lower Devonian rocks, Falls of the Ohio.

PLATYAXUM (Nov. Gen.) FOLIATUM, Nov. Spec.

*Devonian.*

6. Front lateral view of the lower half of a corallum from the Lower Devonian, Falls of the Ohio.

DENDROPORA ORNATA.

*Devonian.*

7. Side view of a corallum from the dark-red clay derived from the decomposition of the encrinal limestone of the Upper Devonian, near Louisville.

DENDROPORA PROBOSCIDALIS.

*Devonian.*

8. (Artificially attached, for convenient photographic delineation, to the side of the Cyathophyllum imbedded in the rock matrix of C. Dentata, Fig. 1.) Frond from the Lower Devonian, Falls of the Ohio.

The specimens figured in this plate belong to the collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 63.

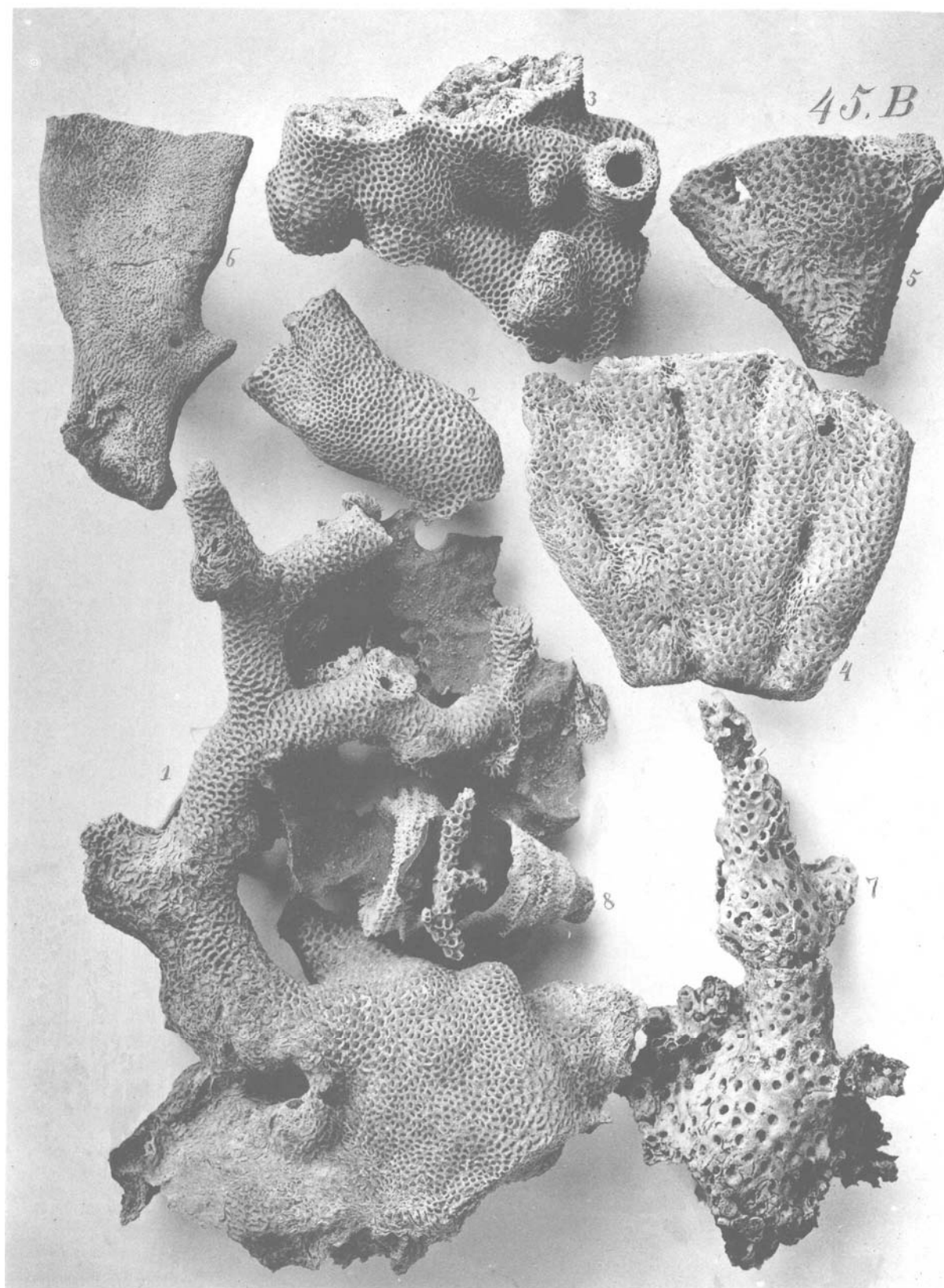


PLATE 64.

CLADOPORA IOWENSIS.

*Devonian.*

1. 2. 3. 4. Fragments from the Lower Devonian, Falls of the Ohio. In Fig. 3 the specimen is inverted. Collection of the author.

STRIATOPORA HURONENSIS.

*Niagara.*

5. Fragment from the Upper Niagara red clay, near Louisville. Collection of the author.
6. Front side view of an eroded specimen, showing mural pores and faint longitudinal striae, from the white clay of the Upper Niagara. Collection of Mr. McConathy.

STRIATOPORA LINNAEANA.

*Devonian.*

7. Fragment (prostrate) from the Lower Devonian rocks two feet above the Niagara and Devonian passage-beds, near Louisville. Collection of the author.
8. Fragment (prostrate) from the ferruginous clay of the Lower Devonian, near Louisville. Occurring in a horizon eight feet above that of example 7. Collection of the author.

STRIATOPORA ALBA, Nov. Spec.

*Devonian.*

9. 10. 11. Portions of fronds from the red clay beds of the Middle Devonian, near Louisville. Collection of the author.

CLADOPORA GRACILIS, Nov. Spec.

*Devonian.*

12. 13. Fronds from the rotten chert of the Middle Devonian, Falls of the Ohio. Example 12 is artificially attached to the matrix of example 13. The latter fails to photograph satisfactorily because of its color. Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 64.

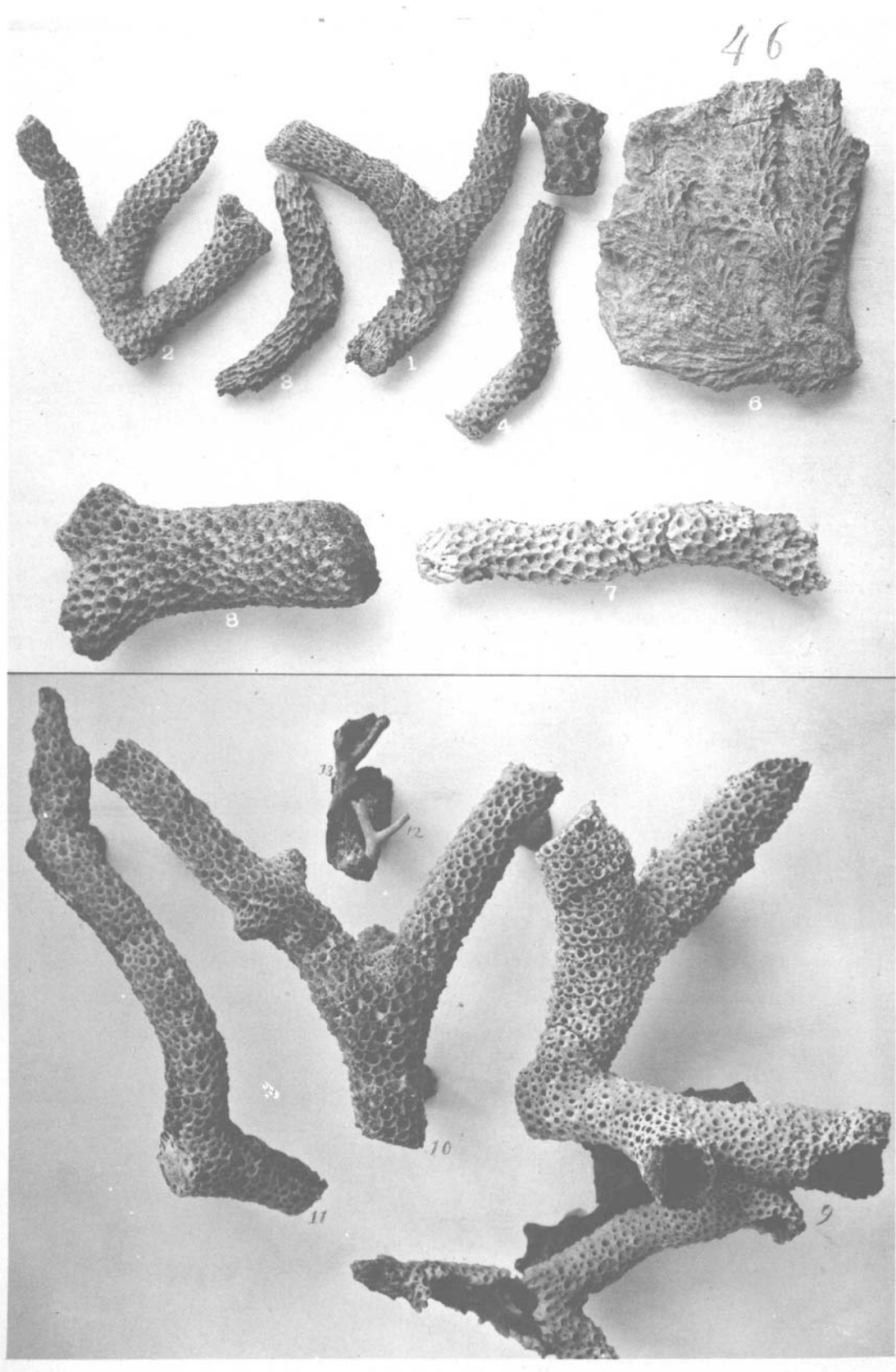




PLATE 65.

DENDROPORA ELEGANTULA. *Devonian.*

1. Portion of a frond partly imbedded in its rock matrix, from the Lower Devonian, Falls of the Ohio.

DENDROPORA ALTERNANS. *Devonian.*

2. Fragment from the red clay of the encrinal limestone of the Upper Devonian, near Louisville.

DENDROPORA NEGLECTA. *Devonian.*

3. 4. 5. Fragments from the horizon and vicinage of *D. alternans*.

DENDROPORA ORNATA. *Devonian.*

6. Fragment from the red clay of the Middle Devonian, near Louisville.

DENDROPORA OSCULATA, Nov. Spec. *Devonian.*

7. 8. 9. Fragments from the horizon and vicinage of *D. alternans*,
10. Two fronds inosculating or joining by approximation; from the same place.
11. Portion of a basal expansion with parts of fronds intimately united; from the horizon and neighborhood of the preceding specimens of the species.

The examples herein figured belong to the collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 65.

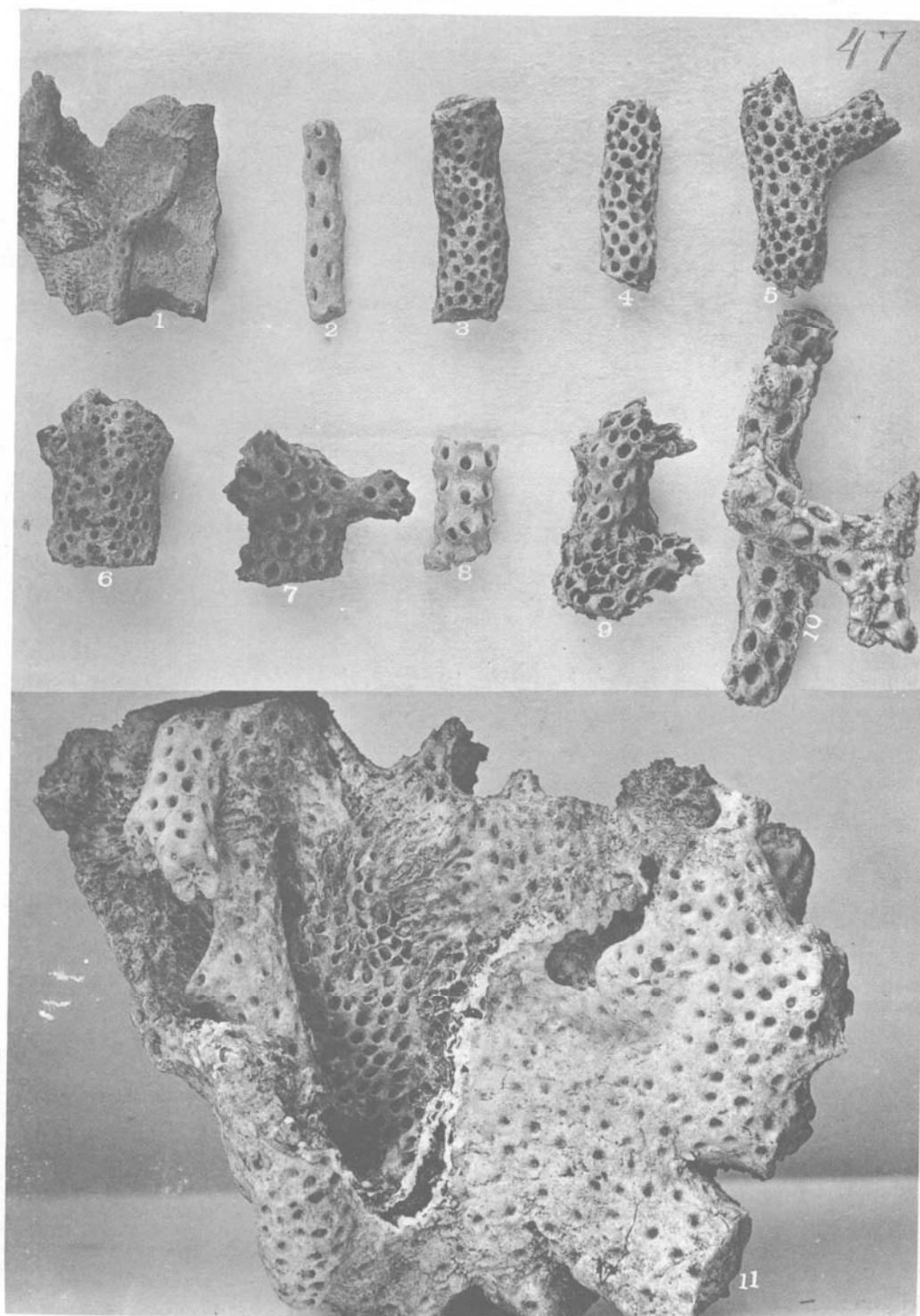


PLATE 66.

DENDROPORA OSCULATA, Nov. Spec.

*Devonian.*

Front lateral view of a portion of a corallum of great size, showing the base and the fronds disjunct and again anastomosing; from the upper strata of the Middle Devonian rocks, Falls of the Ohio.

Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 66.

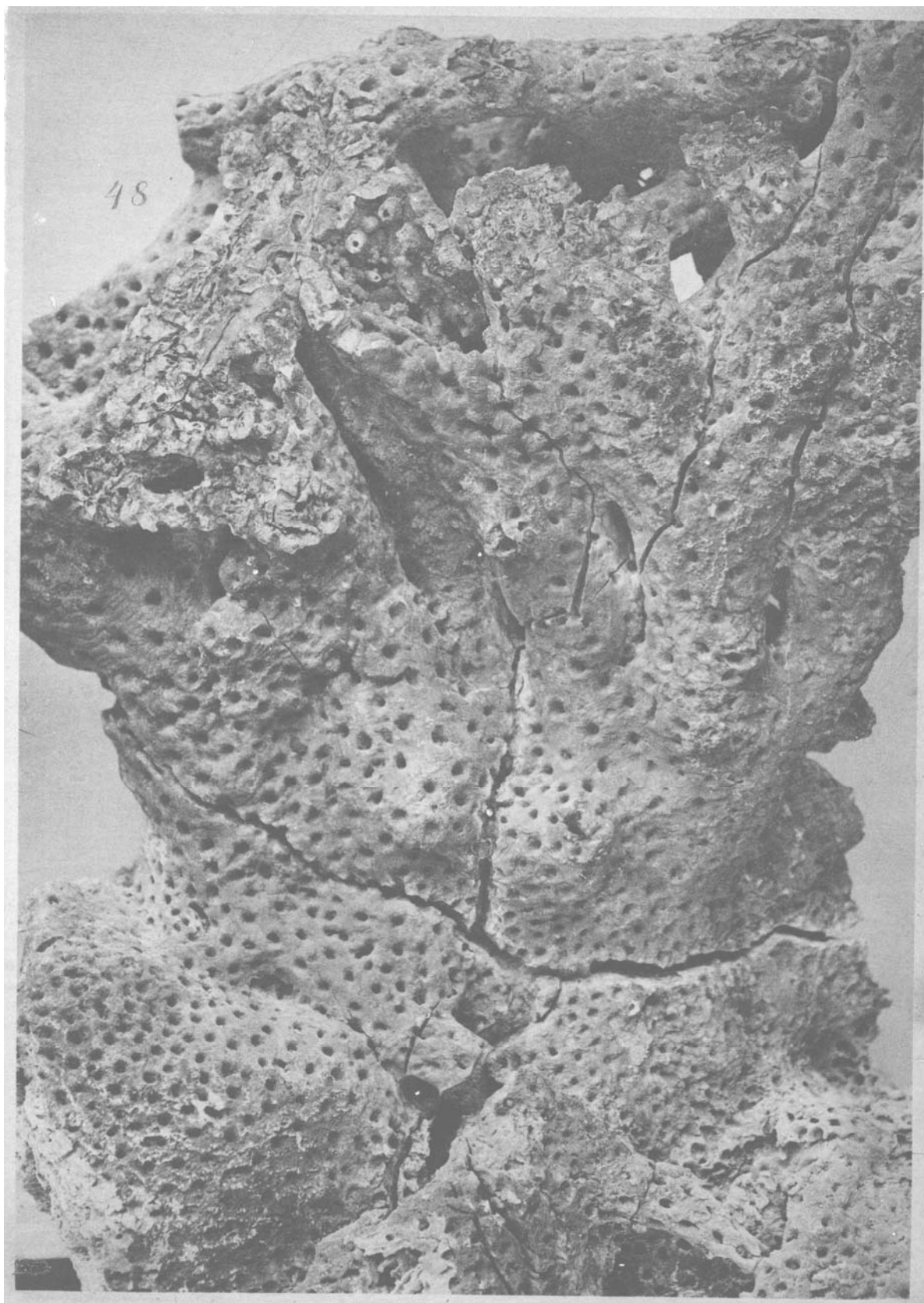


PLATE 67.

HALYSITES CATENULATUS.

*Niagara.*

1. Upper surface of a portion of a corallum, in which the coralllets are of average size; from the white clay of the Upper Niagara, near Louisville. Collection of the author.
2. Upper surface of a fragment whose coralllets are below the medium size; from the ferruginous clay of the Upper Niagara, near Louisville. Collection of the author.
3. Upper surface of a jejune corallum, from the horizon and neighborhood of example 2.

HALYSITES NEXUS, Nov. Spec.

*Niagara.*

4. Oblique lateral view of a corallum from the Upper Niagara white clay, two feet below the Niagara and Devonian passage-beds, near Louisville. Collection of Mr. McConathy.
5. Upper surface of a divaricating chain, imbedded in its chert matrix; from the ferruginous clay of the Upper Niagara, just below the passage-beds above referred to, near Louisville. Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 67.

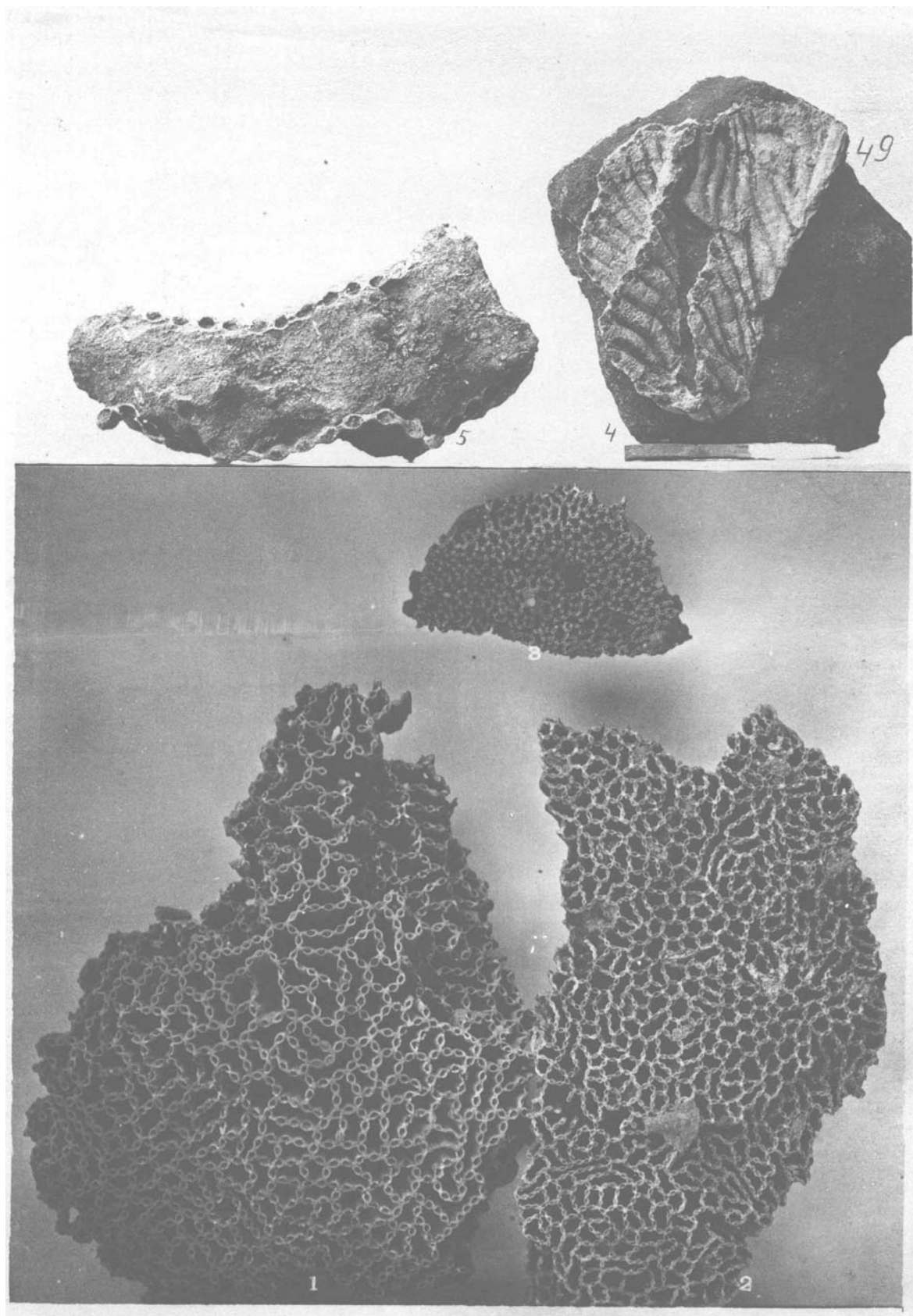


PLATE 68.

SYRINGOPORA HISINGERI.

*Devonian.*

1. Upper surface of a fragment from the ferruginous clay of the Lower Devonian, near Louisville.

SYRINGOPORA STRAMINEA, Nov. Spec.

*Devonian.*

2. (Upper right specimen.) Lateral view of a fragment whose horizon is about one foot lower than the lowest stratum in which *S. hisingeri* is found; from the ferruginous clay of the Lower Devonian, near Louisville.

SYRINGOPORA TABULATA.

*Devonian.*

3. Lateral view and also an oblique view of the upper surface of a fragment from the red clay of the Middle Devonian, near Louisville.

SYRINGOPORA BOUCHARDI.

*Devonian.*

4. Under surface of a corallum whose appressed coralllets indicate the form of the marine object to which the incipient community was attached; from the Middle Devonian red clay, near Louisville.
5. Upper surface of a corallum incrusting *Cyathophyllum corniculum*, from the upper rock strata of the Middle Devonian, Falls of the Ohio.

The specimens figured in this plate belong to the collection of the author.



KENTUCKY GEOLOGICAL SURVEY.

PLATE 68.

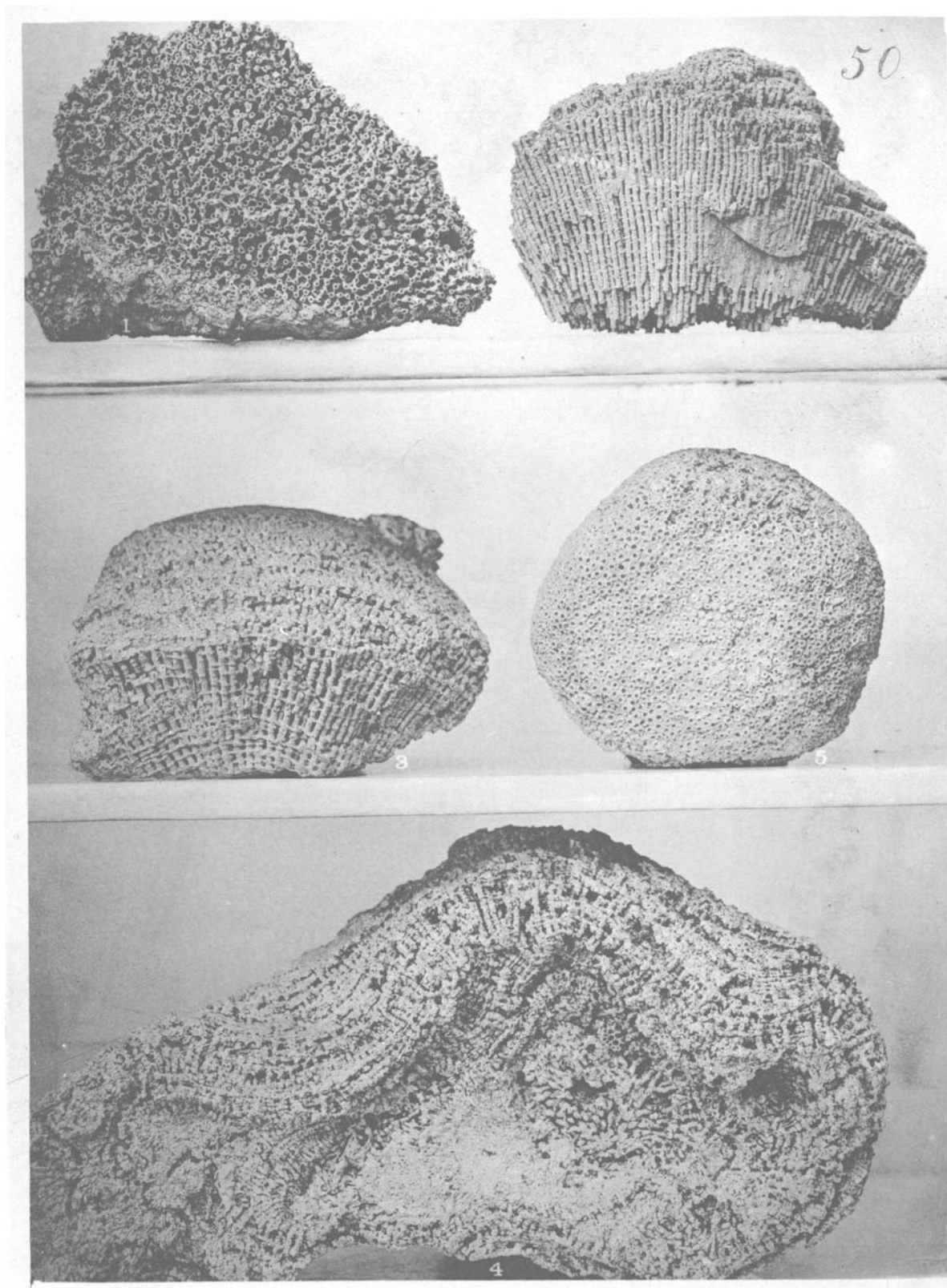




PLATE 69.

SYRINGOPORA TUBIPOROIDES.

*Devonian.*

1. Oblique view of the Upper surface of a corallum from the ferruginous clay of the Lower Devonian, near Louisville. Collection of the author.
2. Upper surface of a corallum from the Lower Devonian rocks, Falls of the Ohio. Collection of Mr. Gaines.
3. Basal expansion incrusting Favosites emmonsi, from the Lower Devonian red clay, near Louisville. Collection of Mr. McConathy.

SYRINGOPORA PERELEGANS.

*Devonian.*

4. Oblique section of a corallum from the upper strata of the Lower Devonian group of rocks, Falls of the Ohio. Collection of the author.
5. Variety (inverted) from the same locality as example 4, but whose horizon is a little higher, showing more widely separated coralllets, and more remote processes of connection. Collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 69.

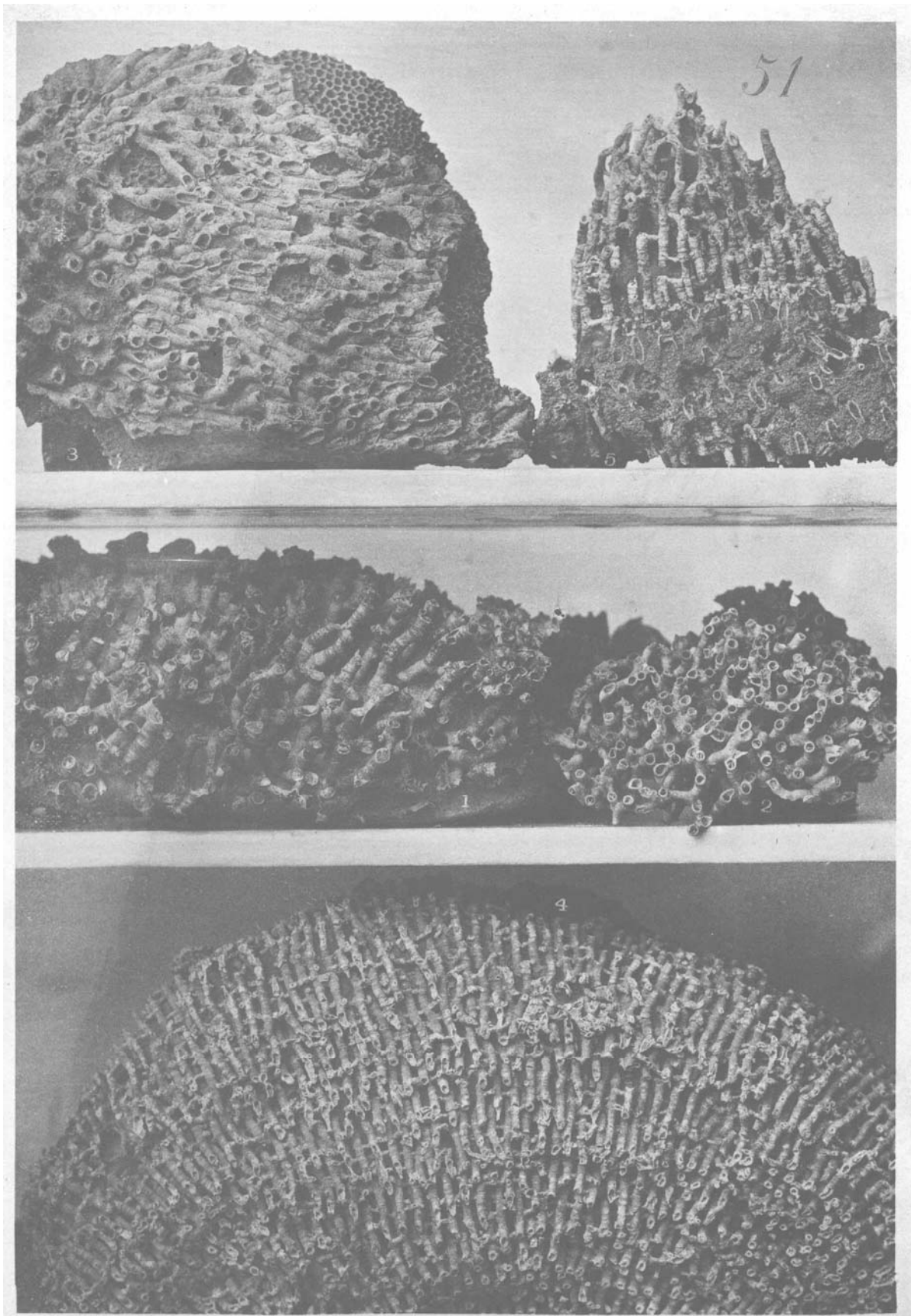


PLATE 70.

DRYMOPORA (Nov. Gen.) FASCICULARIS.      *Niagara and Devonian.*

1. Lateral view (inverted) of a fragment from the Upper Niagara white clay, near Louisville.
2. Base of a corallum attached to *Stromatopora concentrica*; from the Upper Niagara red clay, near Louisville.
3. Portion of a corallum invested by *Stromatopora*, from the ferruginous clay of the Lower Devonian, near Louisville.
4. Portion of a corallum similarly inclosed, from the manganese limestone of the Lower Devonian, Falls of the Ohio.

DRYMOPORA COMMENSALIS, Nov. Spec.      *Devonian.*

5. Vertical section of a corallum growing in commensality with *Stromatopora texilis*, as it is the habit of the species to do with some form of *Stromatopora*; most of the corallets appear larger than their proper size because of their investiture; from the manganese limestone of the Lower Devonian, Falls of the Ohio.
6. 7. Upper surfaces of coralla, the orifices of the corallets showing at the surfaces of the sarcodemes; from the ferruginous clay of the Lower Devonian, near Louisville. All from the collection of the author.

KENTUCKY GEOLOGICAL SURVEY.

PLATE 70.

