

**EXPLANATION FOR CROSS SECTIONS**

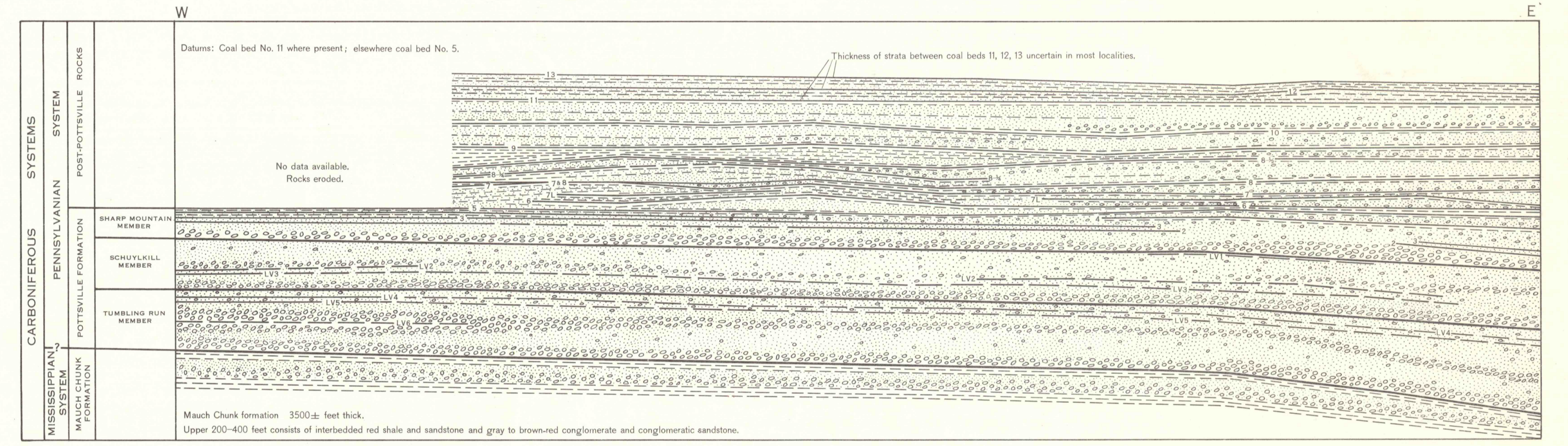
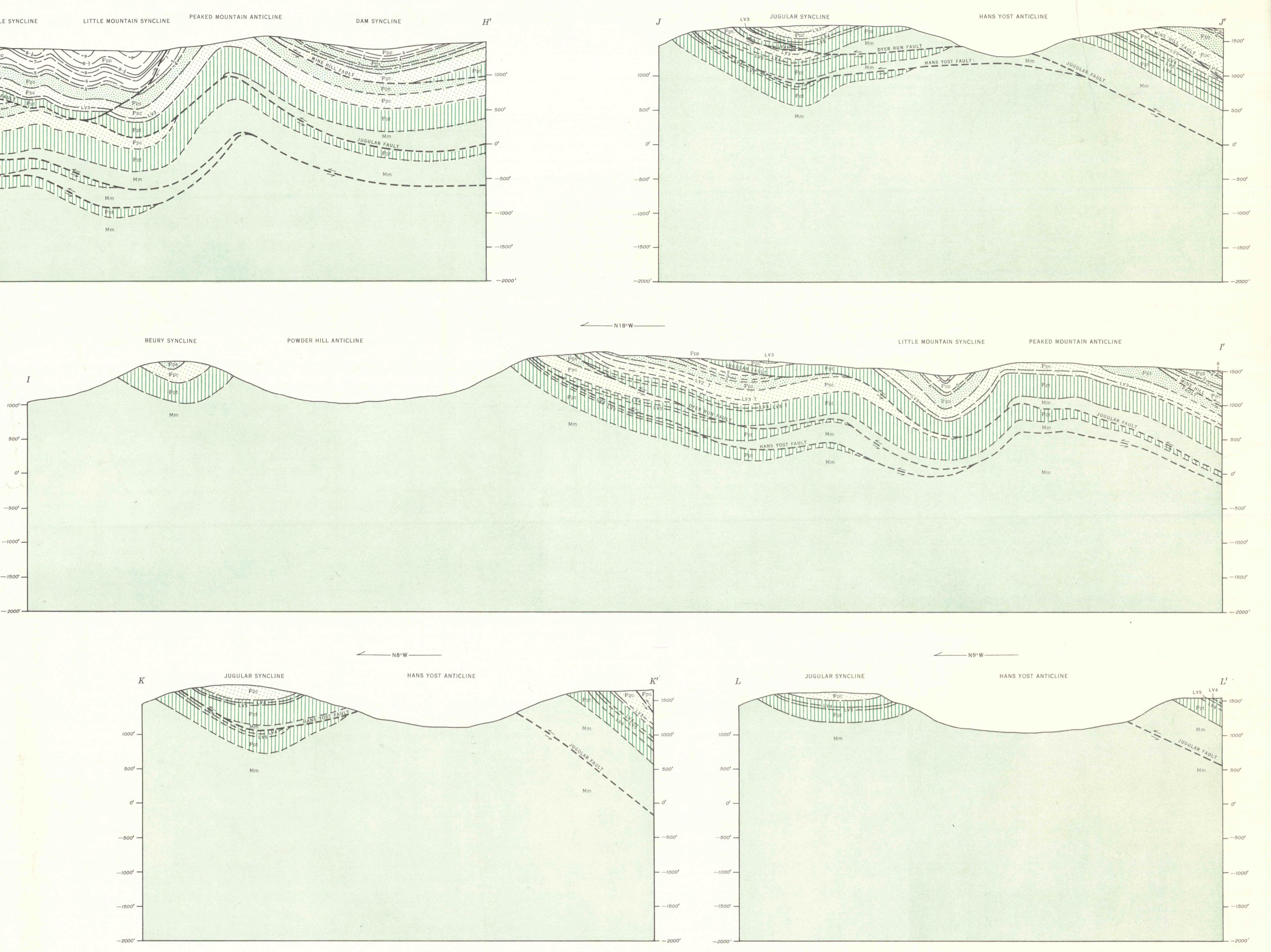
- Coal bed
- Solid where exposed; long dashes where underground extension and connections are relatively certain; short dashes where underground extension, connections, and contacts are hypothetical. \*Under carboniferous coal bed; P, top split; K, bottom split; L, localizer coal bed.
- Contact
- Dashed where approximately located.
- Inferred contact
- Fault showing relative movement
- Solid where certain; long dashes where relatively certain; short dashes where hypothetical.

**COMPOSITE STRATIGRAPHIC SECTION**

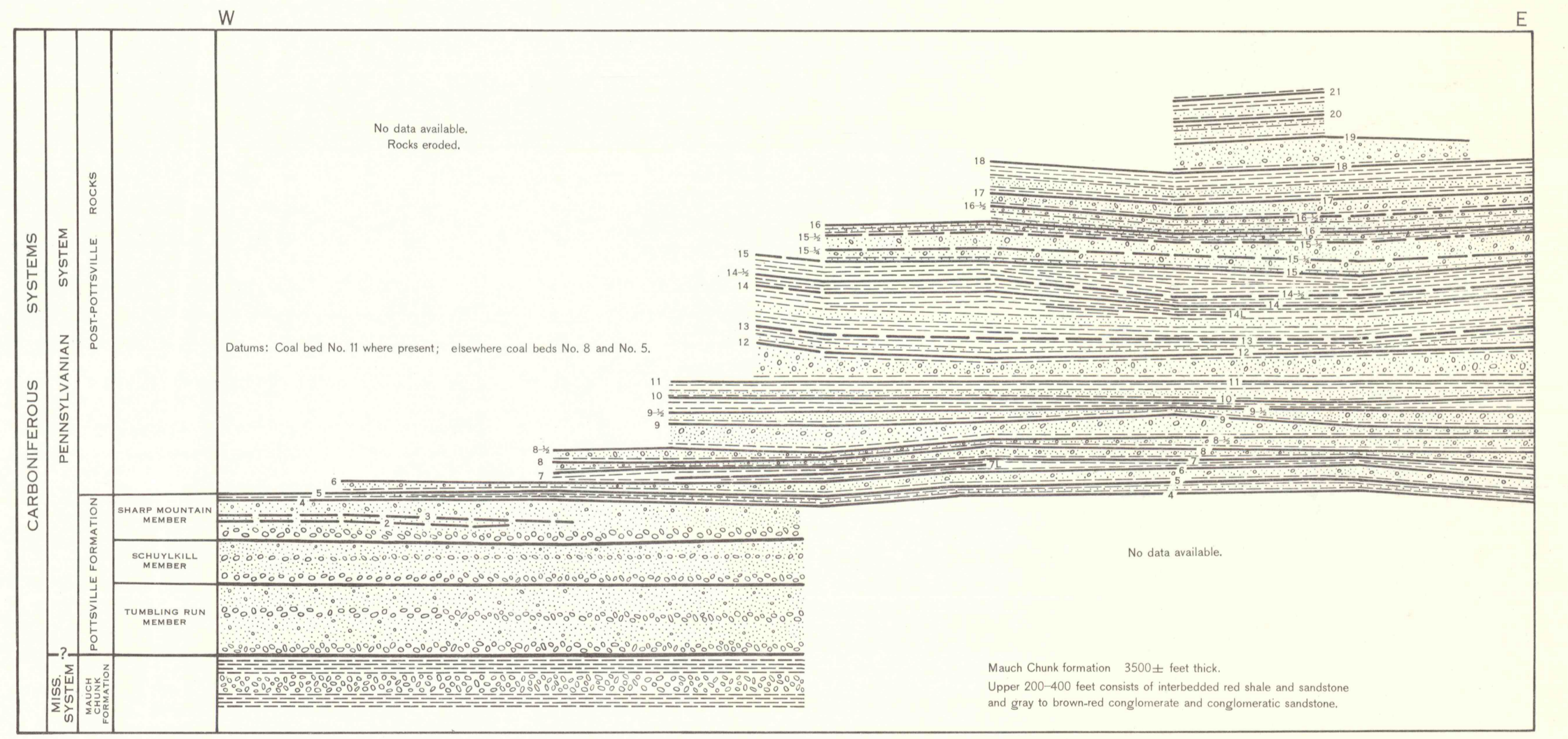
System	Formation	Member	Coal bed	Thick-ness in feet
QUATERNARY	Alluvium	Fill	1	0-10
		Gravel	2	0-10
		Clay	3	0-10
		Sand	4	0-10
		Silt	5	0-10
		Loam	6	0-10
		Clay	7	0-10
		Sand	8	0-10
		Silt	9	0-10
		Loam	10	0-10
CARBONIFEROUS	POST-POSTILLIAN	Coal	11	85-100
		Black Shale	12	80-100
		Tuff	13	80-100
		Shale	14	80-100
		Shale	15	80-100
		Shale	16	80-100
		Shale	17	80-100
		Shale	18	80-100
		Shale	19	80-100
		Shale	20	80-100
		Shale	21	80-100
		Shale	22	80-100
		Shale	23	80-100
		Shale	24	80-100
		Shale	25	80-100
CARBONIFEROUS	PENNSYLVANIAN	Shale	26	90-110
		Shale	27	90-110
		Shale	28	90-110
		Shale	29	90-110
		Shale	30	90-110
		Shale	31	90-110
		Shale	32	90-110
		Shale	33	90-110
		Shale	34	90-110
		Shale	35	90-110
		Shale	36	90-110
		Shale	37	90-110
		Shale	38	90-110
		Shale	39	90-110
		CARBONIFEROUS	MISSISSIPPIAN	Shale
Shale	41			10-10
Shale	42			10-10
Shale	43			10-10
Shale	44			10-10
Shale	45			10-10
Shale	46			10-10
Shale	47			10-10
Shale	48			10-10
Shale	49			10-10
Shale	50			10-10
Shale	51			10-10
Shale	52			10-10
Shale	53			10-10
MISSISSIPPIAN	MAUCH CHUK			Shale
		Shale	55	10-10
		Shale	56	10-10
		Shale	57	10-10
		Shale	58	10-10
		Shale	59	10-10
		Shale	60	10-10
		Shale	61	10-10
		Shale	62	10-10
		Shale	63	10-10
		Shale	64	10-10
		Shale	65	10-10
		Shale	66	10-10
		Shale	67	10-10

**EXPLANATION FOR COMPOSITE STRATIGRAPHIC SECTION**

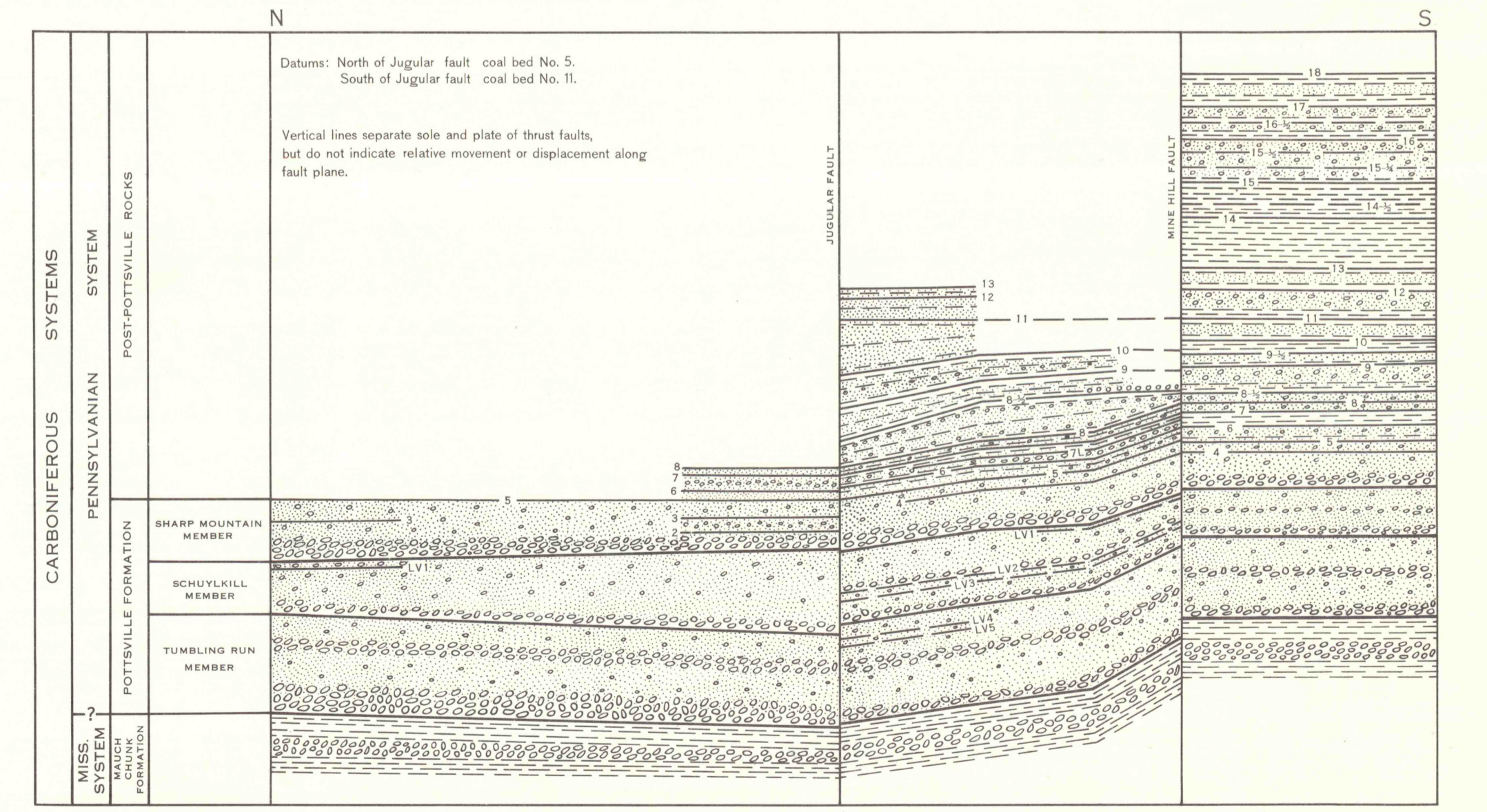
- Conglomerate
- Conglomeratic sandstone
- Sandstone
- Shale and siltstone
- Coal



DIAGRAMMATIC SECTION SHOWING STRATIGRAPHIC RELATIONS OF UPPERMOST MISSISSIPPIAN ROCKS AND PENNSYLVANIAN ROCKS IN THE HECKERSVILLE SYNCLINE



DIAGRAMMATIC SECTION SHOWING STRATIGRAPHIC RELATIONS OF UPPERMOST MISSISSIPPIAN ROCKS AND PENNSYLVANIAN ROCKS SOUTH OF THE MINE HILL FAULT



DIAGRAMMATIC SECTION SHOWING STRATIGRAPHIC RELATIONS OF UPPERMOST MISSISSIPPIAN ROCKS AND PENNSYLVANIAN ROCKS FROM GORDON SYNCLINE TO THE WESTERN PART OF THE FORESTVILLE SYNCLINE

**EXPLANATION FOR DIAGRAMMATIC SECTIONS**

- Conglomerate
- Conglomeratic sandstone
- Sandstone
- Shale and siltstone
- Coal bed
- Solid above contact and extension relatively certain; dashed where hypothetical.

Prepared in 1954 and 1955 from field investigations by members of the U. S. Geological Survey and from data supplied by various mining companies and individuals.

STRUCTURAL CROSS SECTIONS

