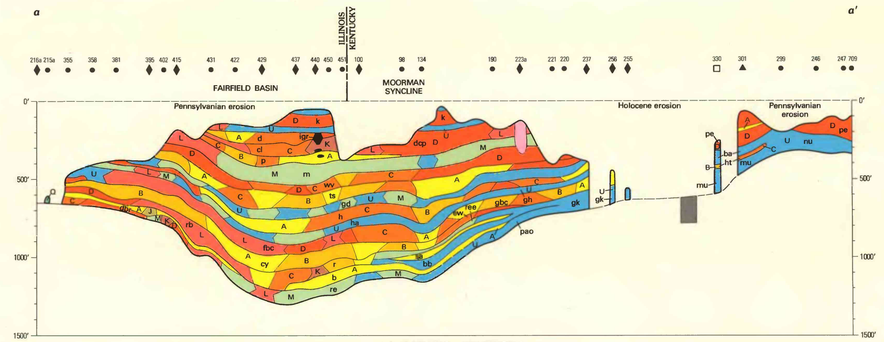
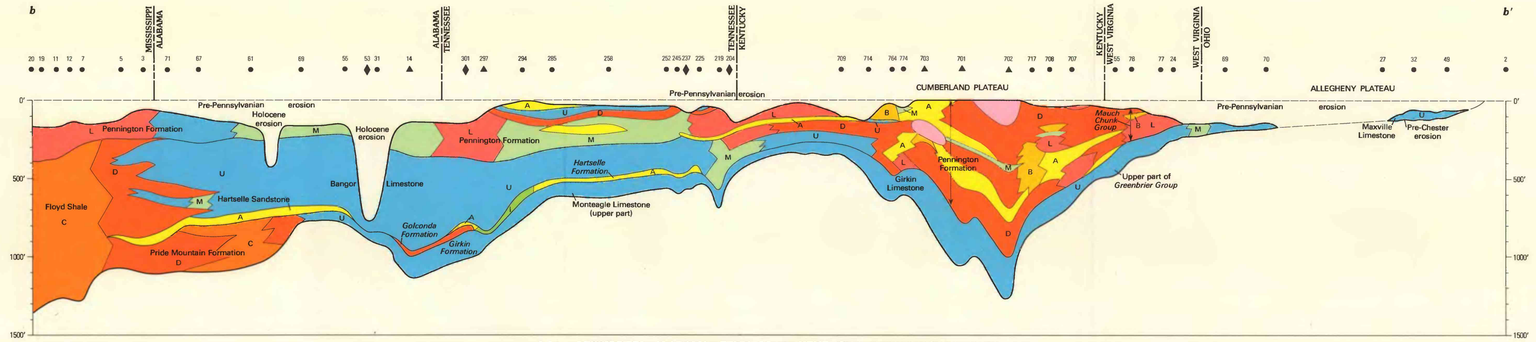
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

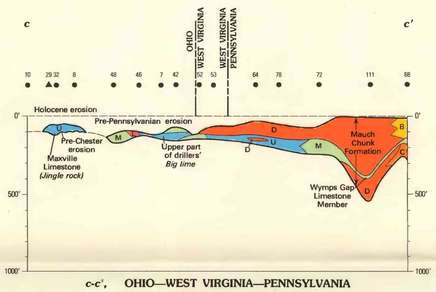
PROFESSIONAL PAPER 1010
PLATE 9-D



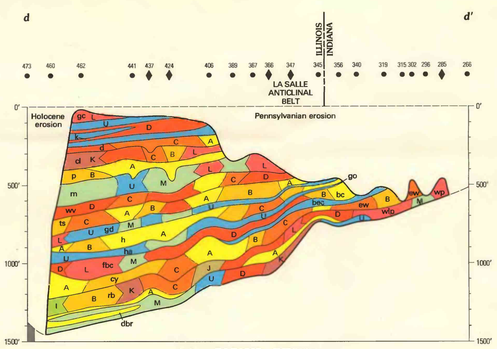
a-a', ILLINOIS—KENTUCKY



b-b', MISSISSIPPI—ALABAMA—TENNESSEE—KENTUCKY—WEST VIRGINIA—OHIO

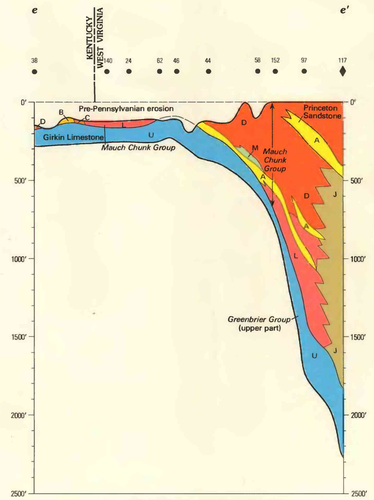


c-c', OHIO—WEST VIRGINIA—PENNSYLVANIA

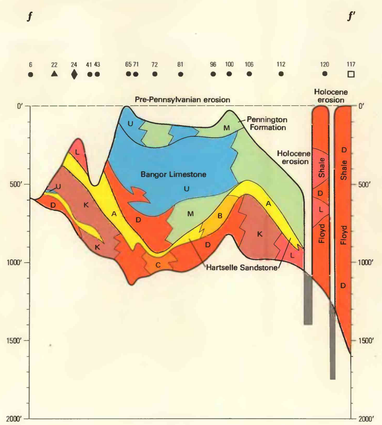


d-d', ILLINOIS—INDIANA

gc	*Grove Church Shale*	cy	Cypress Sandstone		
k	Kinkaid Limestone	rb	Ridenhower Shale and Bethel Sandstone		
d	Degonia Sandstone	dbr	Downeys Bluff Limestone, Yankeetown Chert, and *Shetlerville Limestone Member* of Renault Formation		
cl	Clore Limestone	go	Golconda Limestone		
p	Palestine Sandstone	bc	*Big Clifty Sandstone*		
m	Menard Limestone	bec	*Beech Creek Limestone*		
wv	Waltersburg Sandstone and Vienna Limestone	ew	*Elwren Sandstone* of *West Baden Group*		
ts	Tar Springs Sandstone	wp	*West Baden Group* and Paoli Limestone		
gd	Glen Dean Limestone	wlp	Lower part of *West Baden Group* and Paoli Limestone		
h	Hardinsburg Sandstone				
ha	*Haney Limestone*				
fbc	*Fraileys Shale* and *Beech Creek Limestone*				



e-e', KENTUCKY—WEST VIRGINIA



f-f', ALABAMA

k	Kinkaid Limestone	dcp	Degonia Sandstone, Clore Limestone, and Palestine Sandstone	pe	Pennington Formation
d	Degonia Sandstone			ba	Bangor Limestone
cl	Clore Limestone			ht	Hartselle Sandstone
p	Palestine Sandstone			mu	Upper member of Monteagle Limestone
m	Menard Limestone			nu	Upper member of Newman Limestone
wv	Waltersburg Sandstone and Vienna Limestone				
ts	Tar Springs Sandstone				
gd	Glen Dean Limestone				
h	Hardinsburg Sandstone				
ha	Haney Limestone	gh	Haney Limestone Member of Golconda Formation		
fbc	*Fraileys Shale* and *Beech Creek Limestone*	gbc	Big Clifty Sandstone Member of Golconda Formation		
cy	Cypress Sandstone	ew	*Elwren Sandstone*		
igr	Igneous rocks of post-Mississippian age	rb	Ridenhower Shale and Bethel Sandstone	ree	Reelsville Limestone
r	Ridenhower Shale	sa	Sample Sandstone		
b	Bethel Sandstone	bb	Beaver Bend Limestone		
re	Renault Formation	pao	Paoli Limestone		
		gk	*Girkin Limestone*		

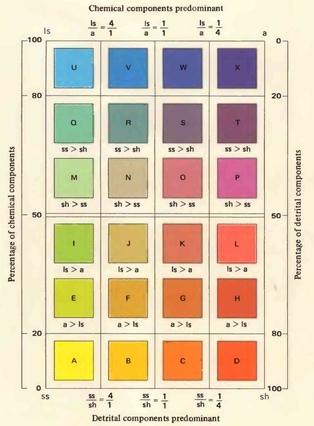
EXPLANATION

Localities

- ▲ Outcrop section — ● Well section
  Numbers correspond to those in "Index to Localities and Sources" in text
- ♦ Composite section constructed from wells, outcrops, or both, less than 5 miles apart
  Numbers correspond to those in "Index to Localities and Sources" in text
- □ Generalized section constructed from scattered data in the surrounding area
  Numbers correspond to those in "Index to Localities and Sources" in text

Patterned areas

- Area where rocks older than Mississippian are exposed
- Area in which Mississippian rocks, if ever present, have been masked or destroyed by younger igneous intrusions, metamorphism, or complex structural deformation
- Area in which Mississippian rocks, if ever present, have not been penetrated by drill and may or may not be present
- Lithofacies undetermined
- Area where mapped interval contains greater than ten percent chert



Lithofacies symbols for sedimentary rocks

Abbreviations
a, Anhydrite or gypsum
is, Limestone or dolomite
sh, Mudstone (includes claystone and siltstone)
ss, Sandstone

NOTES

This is a standardized explanation for all Mississippian cross sections; some lithofacies or other symbols may not appear on this plate.

Lines of cross sections are shown on plates 6A and 6B.

Cross section datums represent actual or estimated surfaces of deposition at end of Mississippian time.

All stratigraphic names except those that are italicized are in current usage by the U.S. Geological Survey. Names which have been incorrectly applied to a stratigraphic unit are included within quotation marks.

SECTIONS THROUGH ROCKS OF INTERVAL D OF MISSISSIPPIAN SYSTEM

HORIZONTAL SCALE 1:2 500 000
50 0 50 100 MILES
50 0 50 100 150 KILOMETERS
VERTICAL SCALE EXAGGERATED