

KANSAS GEOLOGICAL SURVEY

OPEN-FILE REPORT 1934-3

Pennsylvanian and "Permian" rocks of Kansas, composite section along Kansas River and in west-central Missouri

by

R.C. Moore

M.K. Elias

and

N.D. Newell

Disclaimer

The Kansas Geological Survey does not guarantee this document to be free from errors or inaccuracies and disclaims any responsibility or liability for interpretations based on data used in the production of this document or decisions based thereon. This report is intended to make results of research available at the earliest possible date, but is not intended to constitute final or formal publications.

Kansas Geological Survey
1930 Constant Avenue
University of Kansas
Lawrence, KS 66047-3726

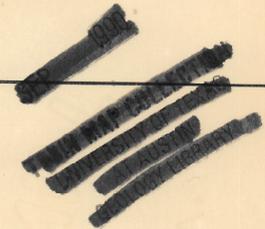
PENNSYLVANIAN AND "PERMIAN" ROCKS OF KANSAS

COMPOSITE SECTION ALONG KANSAS RIVER AND IN WEST CENTRAL MISSOURI

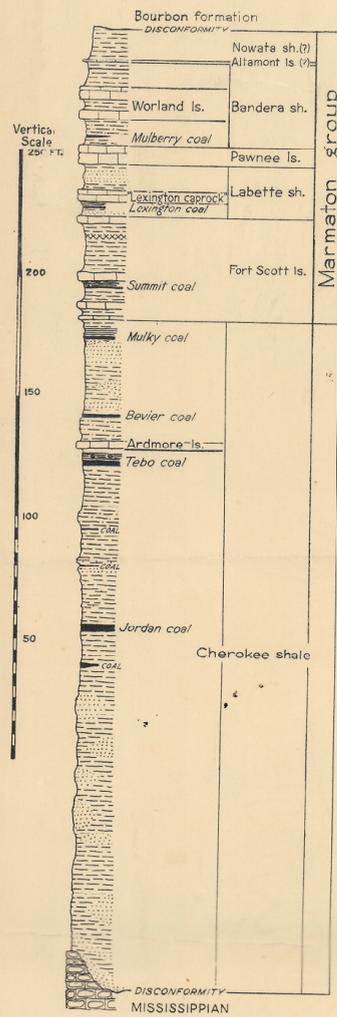
By Raymond C. Moore assisted by Maxim K. Elias and Norman D. Newell

1934

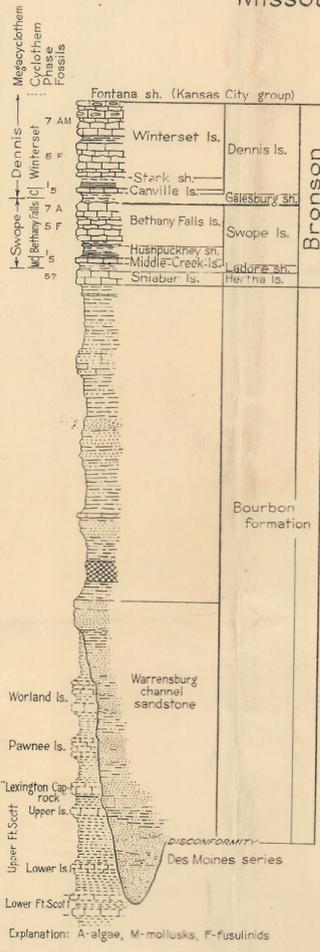
1934-3



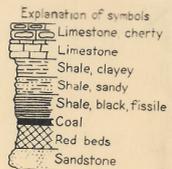
Des Moines series



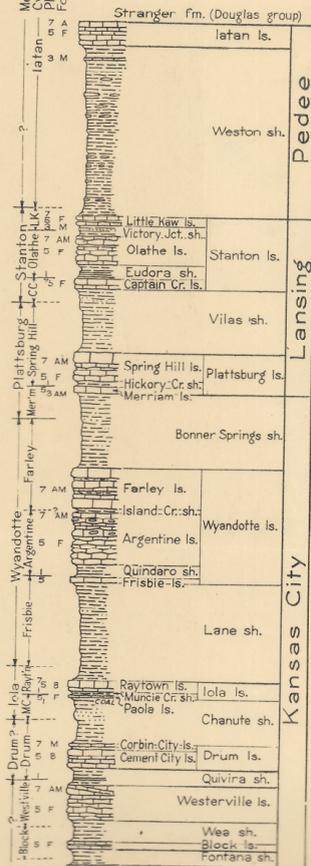
Missouri series



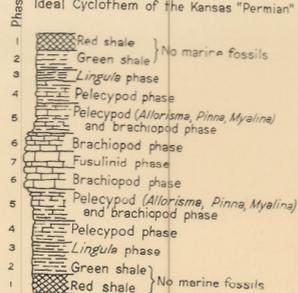
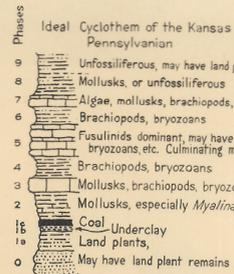
Explanation: A-algae, M-mollusks, F-fusulinids



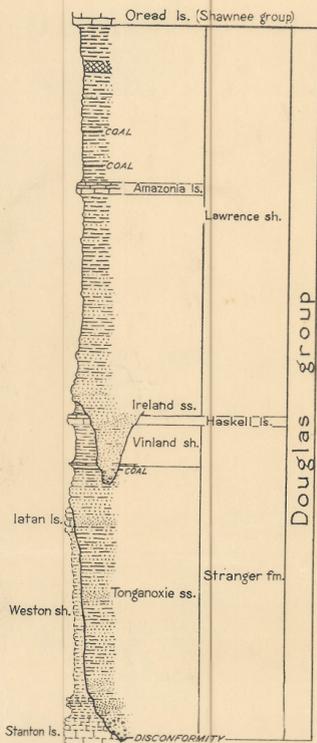
Missouri series



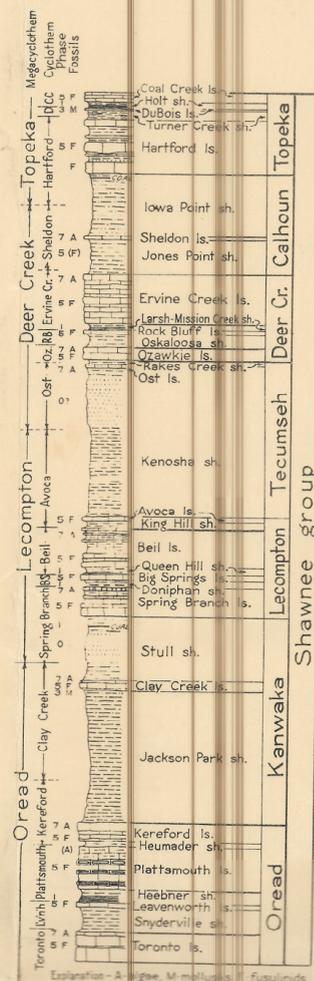
Explanation: A-algae, B-brachiopods, F-Fusulinids, M mollusks



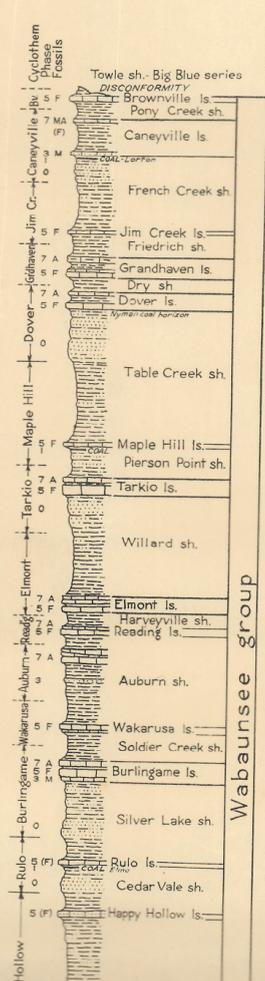
Virgil series



DISCONFORMITY Missouri series

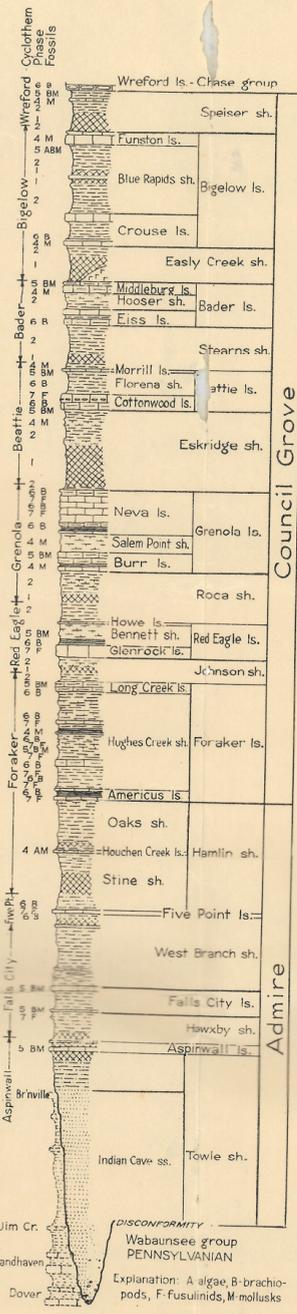


Explanation: A-algae, M-mollusks, F-fusulinids



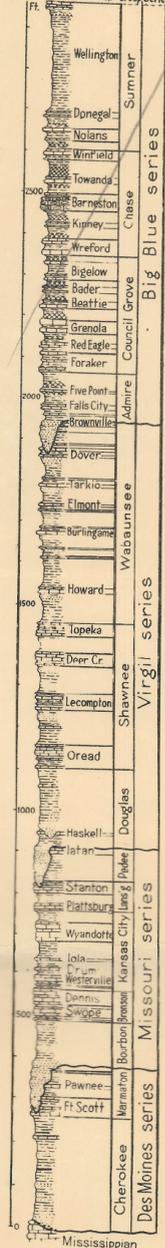
Explanation: A-algae, F-fusulinids, M-mollusks

Big Blue series



Explanation: A-algae, B-brachiopods, F-fusulinids, M-mollusks

Index section



Explanation: A-algae, B-brachiopods, F-fusulinids, M-mollusks

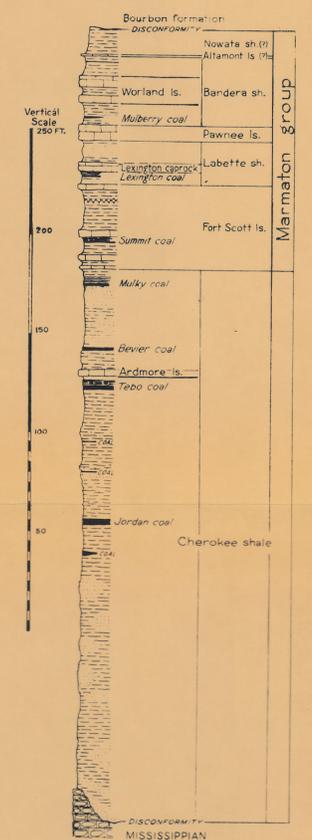
R. W. Schoone

PENNSYLVANIAN AND "PERMIAN" ROCKS OF KANSAS

COMPOSITE SECTION ALONG KANSAS RIVER AND IN WEST CENTRAL MISSOURI

By Raymond C. Moore assisted by Maxim K. Elias and Norman D. Newell
1934

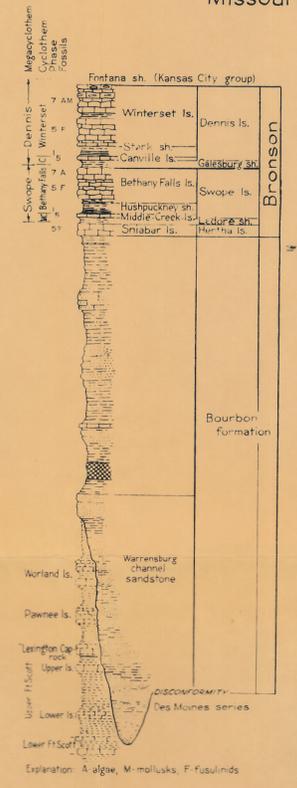
Des Moines series



Vertical Scale
250 ft.
150
100
50

DISCONFORMITY
MISSISSIPPIAN

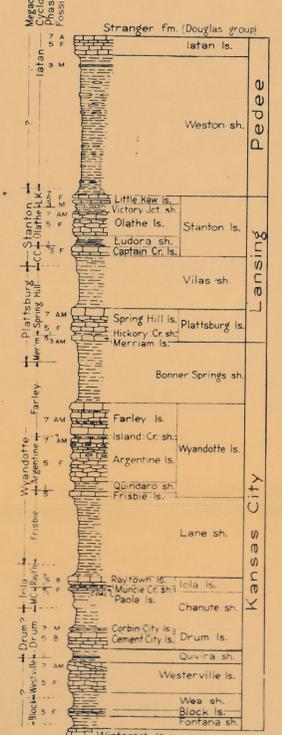
Missouri series



Explanation: A algae, M mollusks, F fusulimids

Explanation of symbols
Limestone cherty
Limestone
Shale clayey
Shale sandy
Shale black fissile
Coal
Red beds
Sandstone

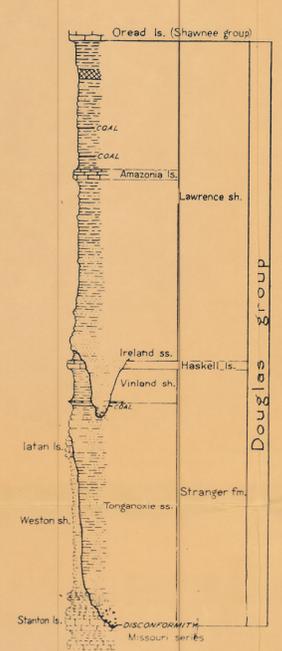
Bronson



Explanation: A algae, B brachiopods, F fusulimids, M mollusks

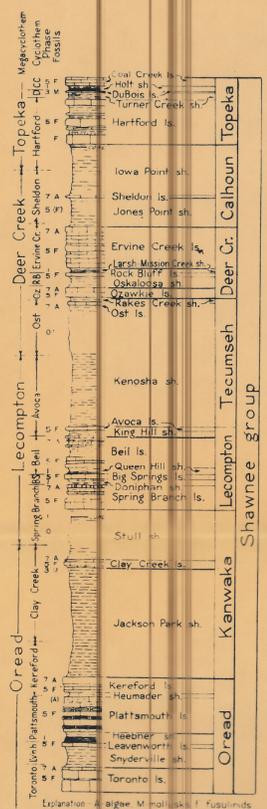
Phases
Ideal Cyclothem of the Kansas Pennsylvanian
1 Red shale No marine fossils
2 Green shale
3 Lingule phase
4 Pelecypod phase
5 Pelecypod (Allorisma, Pinea Myalina) and brachiopod phase
6 Brachiopod phase
7 Fusulimids phase
8 Brachiopod phase
9 Brachiopods bryozoans
10 Mollusks especially Myalina
11 Coal Underclay
12 Land plants
13 Lingule phase
14 Green shale
15 Red shale No marine fossils

Virgil series



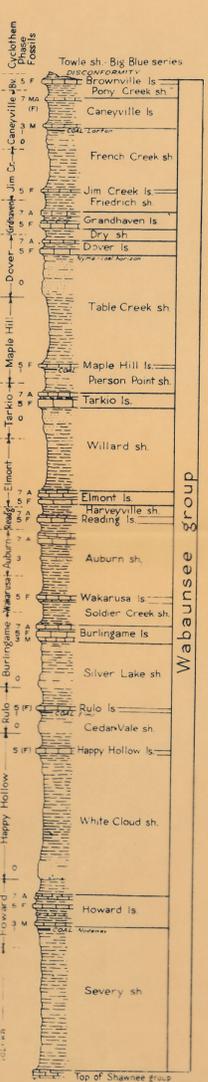
Explanation: A algae, M mollusks, F fusulimids

Phases
Ideal Cyclothem of the Kansas "Permian"
1 Red shale No marine fossils
2 Green shale
3 Lingule phase
4 Pelecypod phase
5 Pelecypod (Allorisma, Pinea Myalina) and brachiopod phase
6 Brachiopod phase
7 Fusulimids phase
8 Brachiopod phase
9 Brachiopods bryozoans
10 Mollusks especially Myalina
11 Coal Underclay
12 Land plants
13 Lingule phase
14 Green shale
15 Red shale No marine fossils



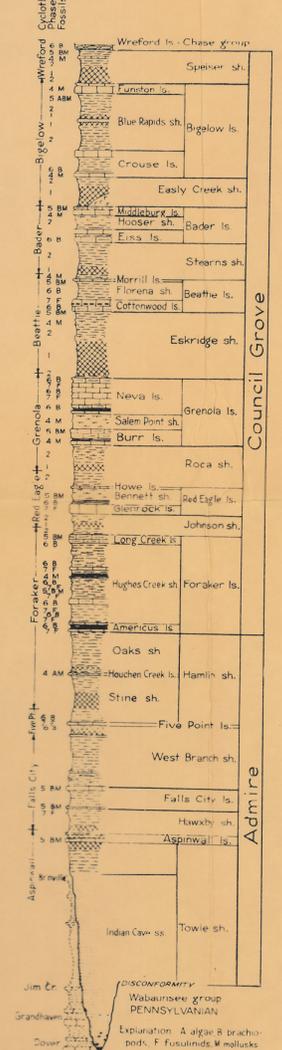
Explanation: A algae, M mollusks, F fusulimids

A cyclothem comprises the deposits of a sedimentary cycle.
A megacyclothem comprises two or more cyclothem of different characters that occur in regular sequence.

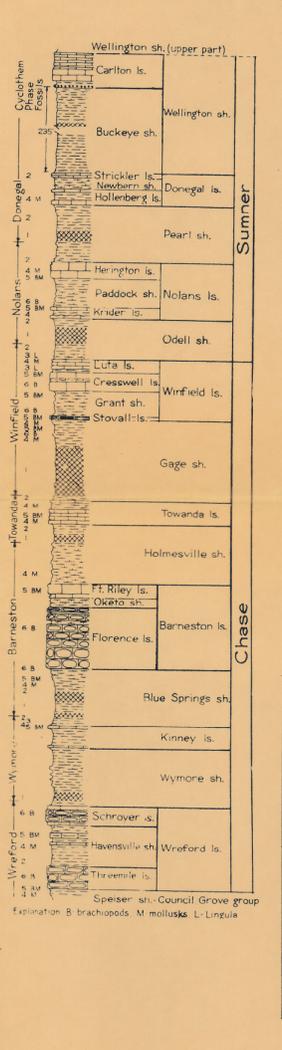


Explanation: A algae, F fusulimids, M mollusks

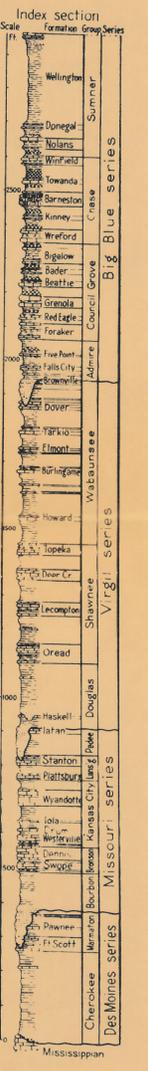
Big Blue series



Explanation: A algae, B brachiopods, F fusulimids, M mollusks



Explanation: B brachiopods, M mollusks, L Lingule

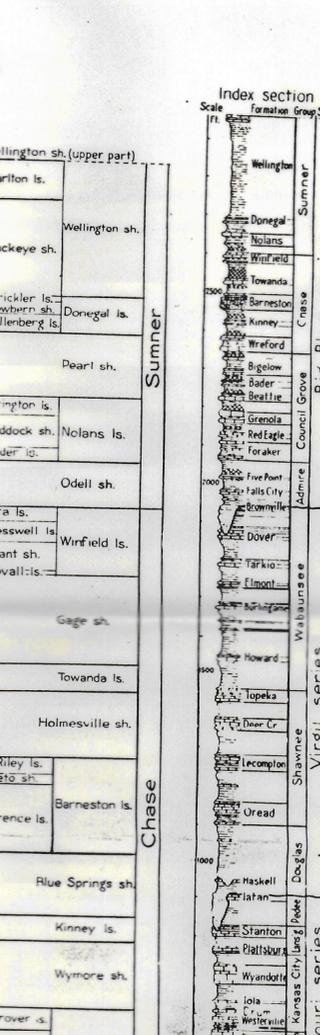
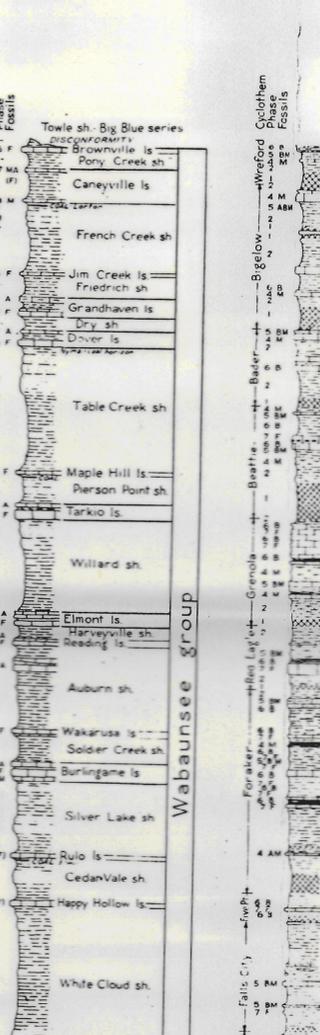
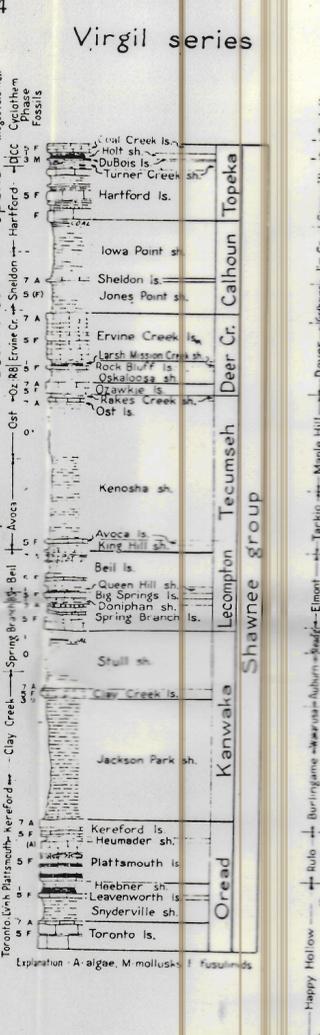
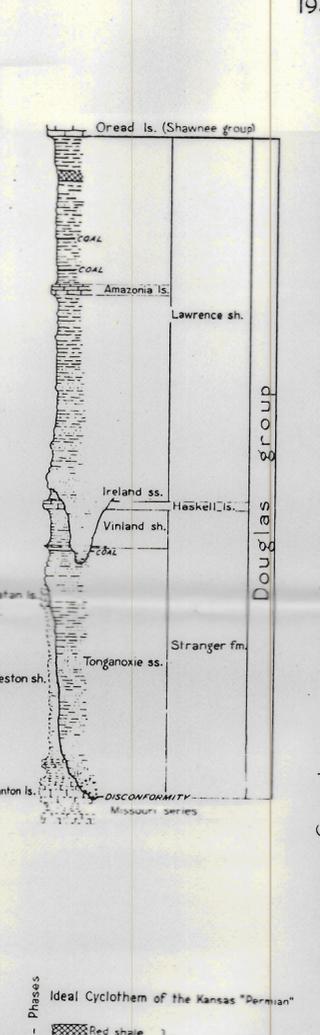
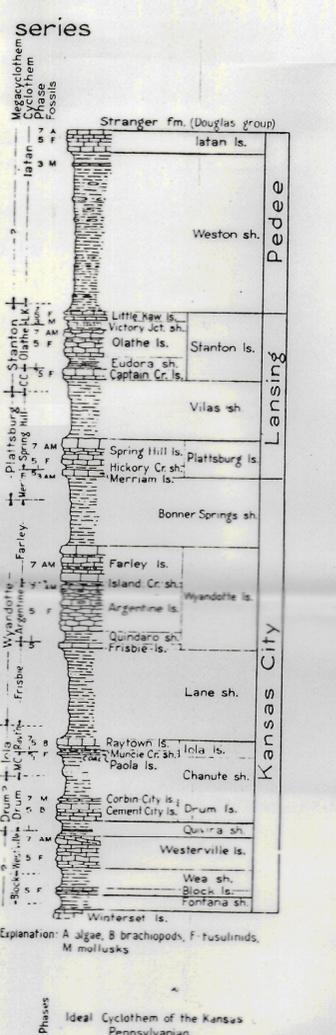
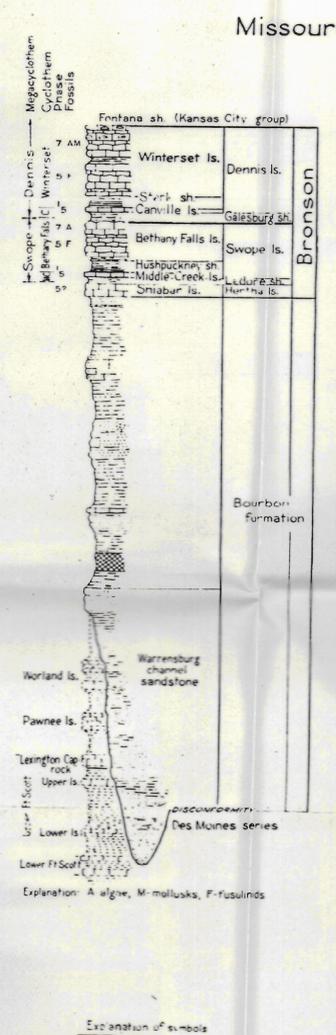
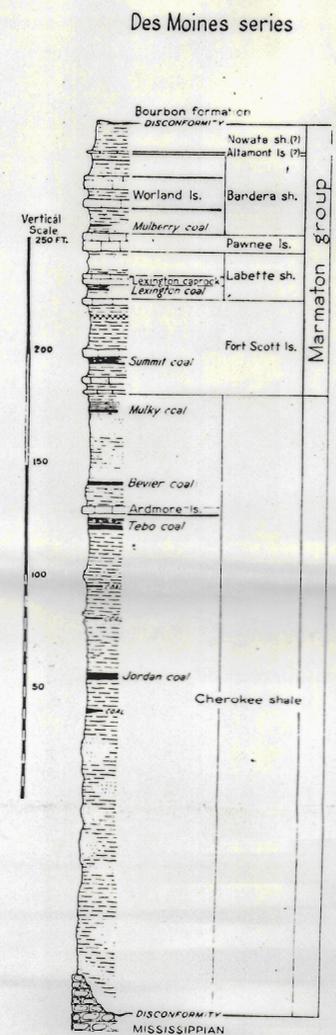


Scale
Formation Group Series

W.S. Schuchert

PENNSYLVANIAN AND "PERMIAN" ROCKS OF KANSAS

COMPOSITE SECTION ALONG KANSAS RIVER AND IN WEST CENTRAL MISSOURI
By Raymond C. Moore assisted by Maxim K. Elias and Norman D. Newell
1934



Explanation of symbols

- Limestone cherty
- Limestone
- Shale clayey
- Shale sandy
- Shale black, fissile
- Coal
- Red beds
- Sandstone

Ideal Cyclothem of the Kansas Pennsylvanian

- 1 Red shale | No marine fossils
- 2 Green shale | Lingula phase
- 3 Unfossiliferous, may have land plant remains
- 4 Mollusks, or unfossiliferous
- 5 Pelecypod phase
- 6 Pelecypod (Allorisma, Pinna, Myalina) and brachiopod phase
- 7 Brachiopod phase
- 8 Fusulinids phase
- 9 Fusulinids dominant, may have brachiopods, bryozoans etc. Culminating marine phase
- 10 Brachiopods, bryozoans
- 11 Mollusks, brachiopods, bryozoans
- 12 Mollusks, especially Myalina
- 13 Coal, underclay
- 14 Land plants
- 15 May have land plant remains
- 16 Red shale | No marine fossils

Ideal Cyclothem of the Kansas "Permian"

- 1 Red shale | No marine fossils
- 2 Green shale | Lingula phase
- 3 Unfossiliferous, may have land plant remains
- 4 Mollusks, or unfossiliferous
- 5 Pelecypod phase
- 6 Pelecypod (Allorisma, Pinna, Myalina) and brachiopod phase
- 7 Brachiopod phase
- 8 Fusulinids phase
- 9 Fusulinids dominant, may have brachiopods, bryozoans etc. Culminating marine phase
- 10 Brachiopods, bryozoans
- 11 Mollusks, brachiopods, bryozoans
- 12 Mollusks, especially Myalina
- 13 Coal, underclay
- 14 Land plants
- 15 May have land plant remains
- 16 Red shale | No marine fossils

A cyclothem comprises the deposits of a sedimentary cycle.
A megacyclothem comprises two or more cyclothem of different characters that occur in regular sequence.

