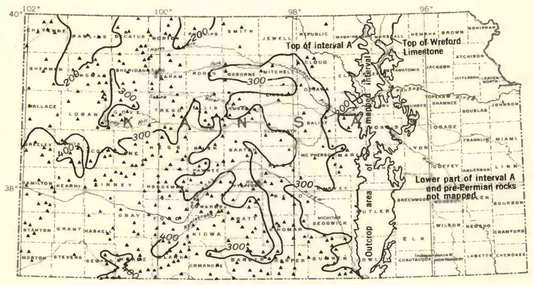
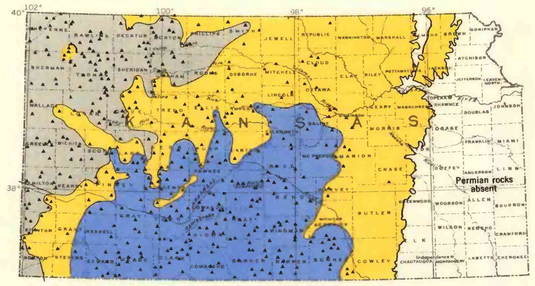


EXPLANATION

Control points

200
Isopach
Interval is 100 feet

A. THICKNESS OF PART OF INTERVAL A (TOP OF WREFORD LIMESTONE TO TOP OF INTERVAL A)



EXPLANATION

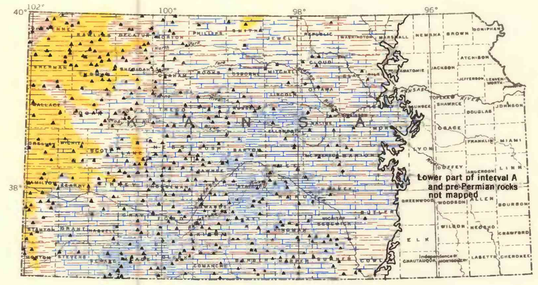
Abundant chert

Moderate amount of chert

No chert

Control points

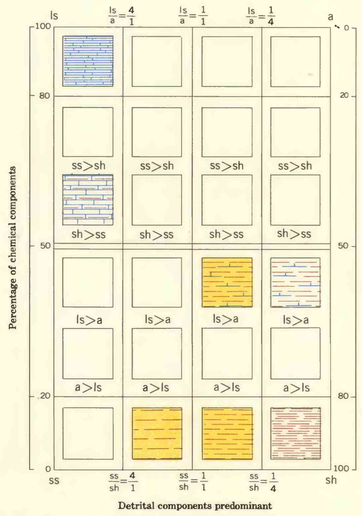
B. ABUNDANCE OF CHERT IN INTERVAL A



C. LITHOFACIES OF PART OF INTERVAL A (TOP OF WREFORD LIMESTONE TO TOP OF INTERVAL A)

EXPLANATION

Chemical components predominant



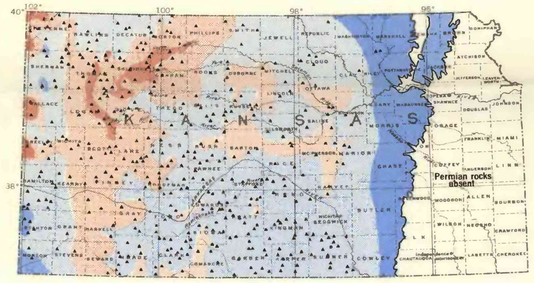
Detrital components predominant

Abbreviations

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

Lithofacies symbols for sedimentary rocks

Control points



EXPLANATION

100 percent limestone

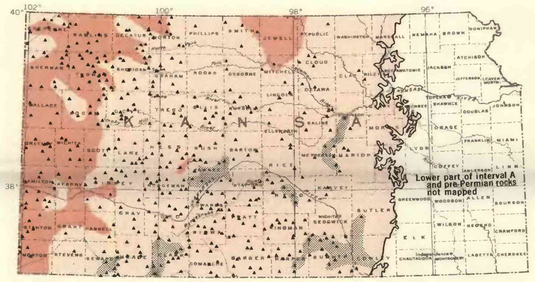
Less than 25 percent dolomite

More than 25 percent dolomite but less than 50 percent dolomite

More than 50 percent dolomite

Control points

D. LIMESTONE-DOLOMITE RATIO, INTERVAL A



EXPLANATION

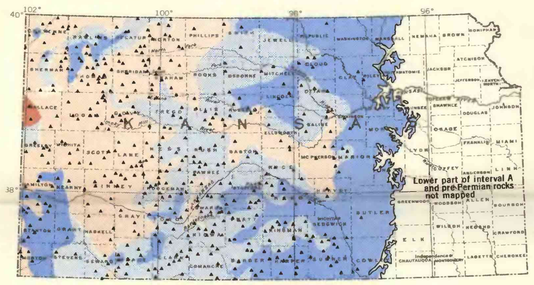
66 percent or more of mudstone is gray

50 percent of mudstone is red, 50 percent is gray

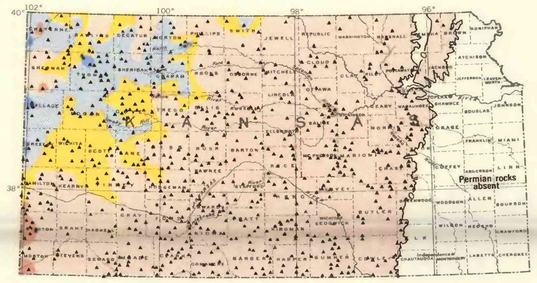
66 percent or more of mudstone is red

Control points

G. COLOR OF MUDSTONES IN PART OF INTERVAL A (TOP OF WREFORD LIMESTONE TO TOP OF INTERVAL A)



E. LIMESTONE-DOLOMITE RATIO, PART OF INTERVAL A (TOP OF WREFORD LIMESTONE TO TOP OF INTERVAL A)



EXPLANATION

No dolomite beds in interval A

Dolomite beds only in Chase Group (upper part of interval A); most of these are above the Florence Limestone Member of the Barneston Limestone

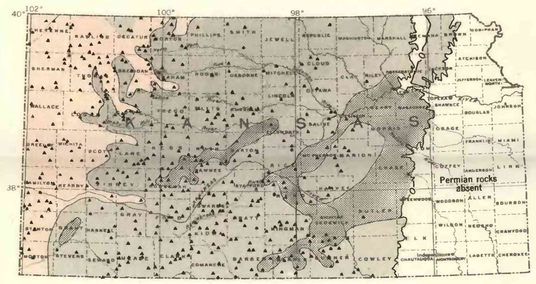
Dolomite beds occur throughout the Chase Group

Dolomite beds occur throughout the Chase and Council Grove (middle part of interval A) Groups

Dolomite beds occur throughout interval A

Control points

H. STRATIGRAPHIC POSITION OF OLDEST DOLOMITE BEDS IN INTERVAL A



EXPLANATION

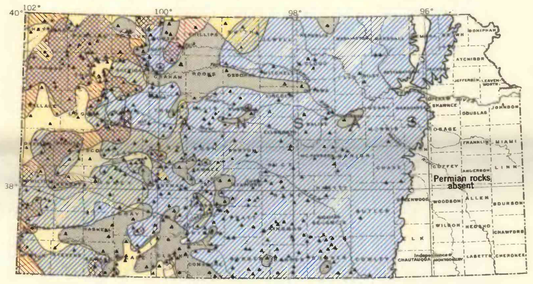
More than 75 percent of mudstone is gray

More than 50 percent of mudstone is gray

More than 50 percent of mudstone is red

Control points

F. COLOR OF MUDSTONES IN INTERVAL A



EXPLANATION

Sandstone in Chase Group (upper part of interval A)

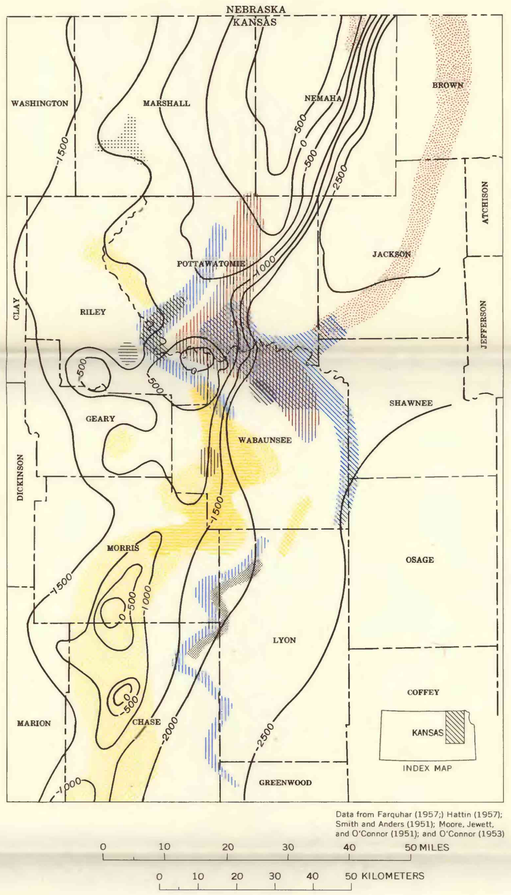
Sandstone in Council Grove Group (middle part of interval A)

Sandstone in Admire Group (lower part of interval A)

Sandstone absent in interval A

Control points

I. AREAL EXTENT OF SANDSTONE IN INTERVAL A BY GROUPS



Data from Farquhar (1957); Hattin (1957); Smith and Anders (1951); Moore, Jewett, and O'Connor (1951); and O'Connor (1953)

0 10 20 30 40 50 MILES

0 10 20 30 40 50 KILOMETERS

J. RELATIONS OF SOME EXPOSED SEDIMENTARY FEATURES IN INTERVAL A TO THE STRUCTURE OF NEMAHA RIDGE

EXPLANATION

BIOSTROMES

Wreford Limestone

Funston Limestone

Red Eagle Limestone

FRAGMENTAL COQUINA

Five Point Limestone Member of Janesville Shale

Falls City Limestone

PENECONTEMPORANEOUS STRUCTURES

Neva Limestone

Aspinwall Limestone Member of Onago Shale

FOLDING OR SLUMPING

Towanda Limestone Member of Doyle Shale

Johnson Shale

GYPSUM

Easly Creek Shale

Johnson Shale

Hamlin Shale Member of Janesville Shale

—— -2000 ——
Structure contour
Drawn on top of Precambrian rocks. Interval is 500 feet

FACIES RELATIONS OF INTERVAL A IN KANSAS

SCALE 1:5 000 000

100 0 100 200 300 MILES

100 0 100 200 300 KILOMETERS

1967

Geology by M. R. Mudge

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1966—G65233