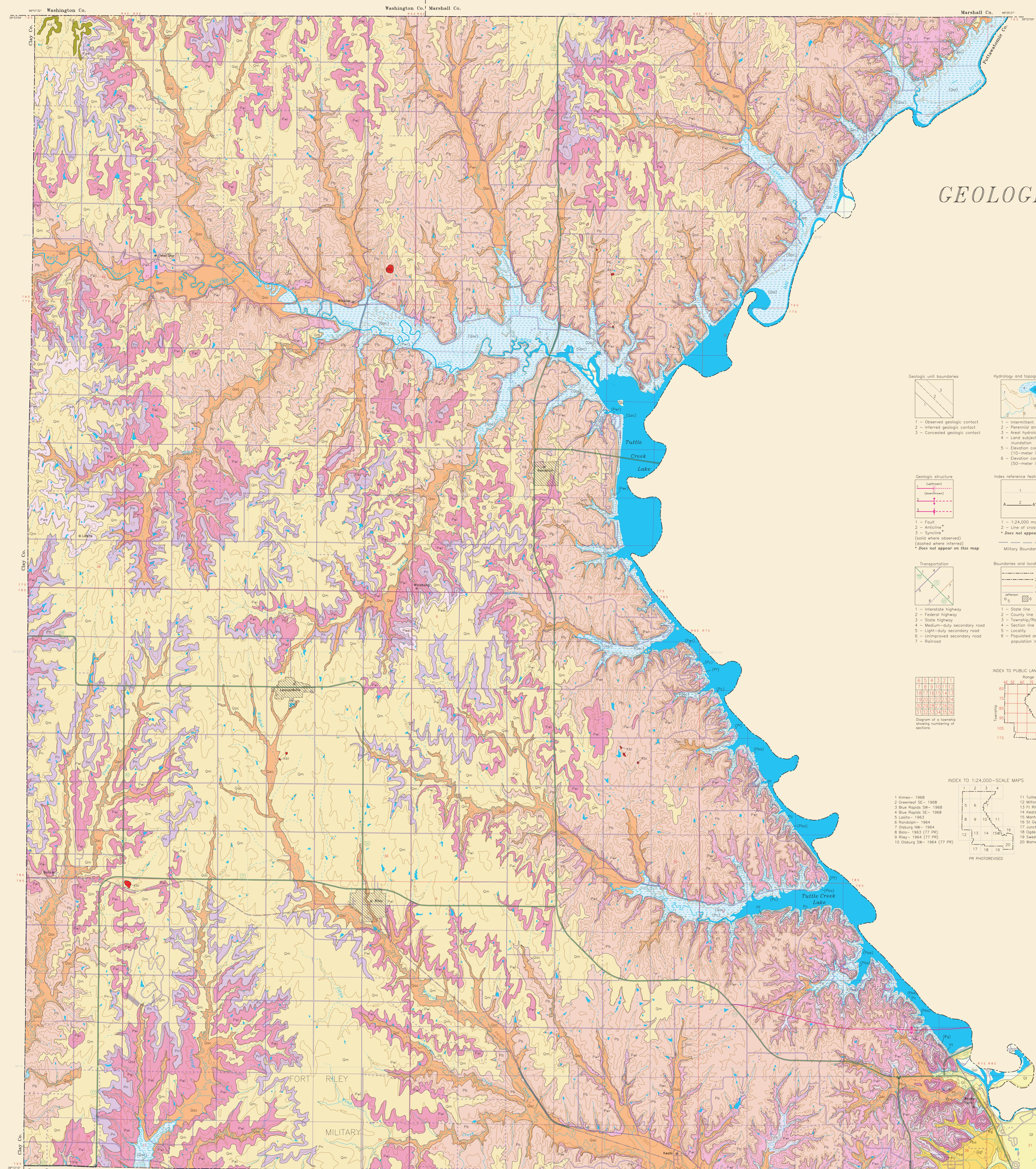


## GEOLOGIC MAP OF RILEY COUNTY, KANSAS 1995

Geology mapped by  
Brian D. Smith  
Allen W. Archer  
Computer compilation and cartography by  
Jorgina A. Ross  
Cynthia L. Weeks  
Elizabeth C. Crouse



The geology was mapped using the U.S.G.S. 7.5-min. topographic 1:250,000 scale base map, while aerial photography and field observations were obtained from the Geological Survey Bulletin 39 (Lewiss, 1941), U.S. Geological Survey, Open-File Report 80-100 (Lewiss, 1980), Kansas Department of Transportation, Materials Investigation Report 35 (Clark, 1978), and unpublished theses from the Department of Geology, Kansas State University, Manhattan, 34 p. Geologic nomenclature and stratigraphic nomenclature from these sources was made conformable with the 1983 version of the Kansas Stratigraphic Column (Zeller, 1988). Surficial material inventory was adopted from U.S. Department of Agriculture Soil Conservation Service (Jantz et al., 1975) and the Kansas Department of Transportation (1989). Riley Military Reservation was not accessible for field survey during 1989-1991 and the map relies totally on the published sources.

New Kimberlite locations supplied by Pieter Berndsen.

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Merry, J.W., 1980. Geologic map of Riley and Geary Counties, Kansas: Unpub. M.S. thesis, Department of Geology, Kansas State University, Manhattan, 34 p.

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Mudge, M.P., and Beck, H.V., 1949. Geologic construction maps of Riley and Geary counties, Kansas: U.S. Geological Survey, Open-File Report.

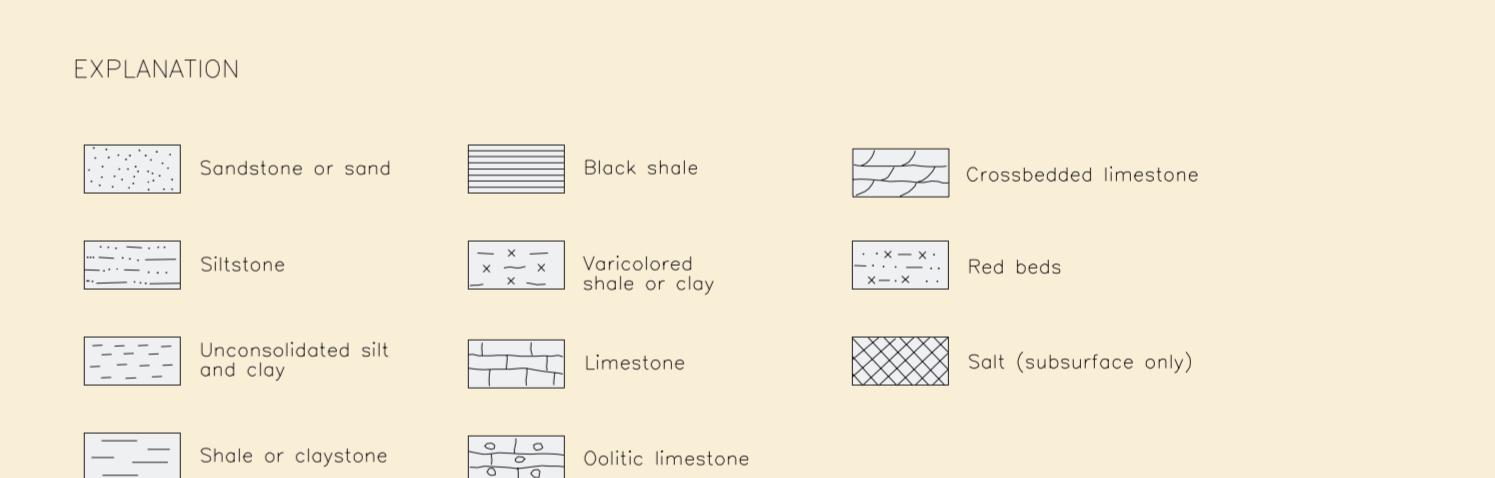
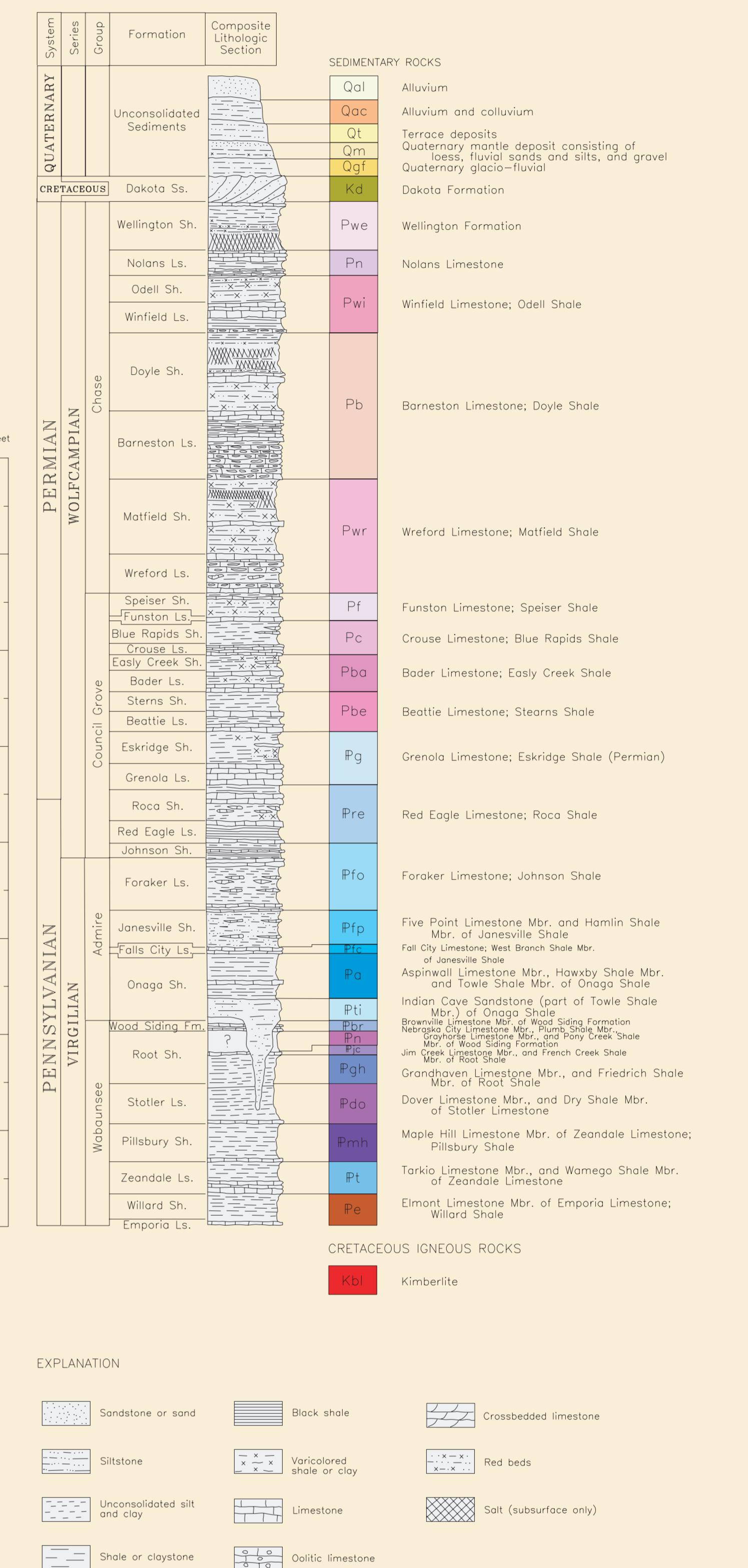
Zeller, D.E. (ed.), 1988. The stratigraphic succession in Kansas: Kansas Geological Survey Bulletin 89, 81 p. 1 pl.

Elevation contours are presented for general reference. They are taken from USGS Digital Line Graph (DLG) files compiled from the 1:250,000 scale base map. Note that the elevation contours from the DLG's may be more generalized than the base maps used for compilation of geologic outcrop patterns. Outcrop patterns are based on field observations and are generally more accurate than the associated contour lines. Repeated fluctuation of an outcrop line across a contour line should be interpreted as a vertical fault or a discordance, rather than maintaining a relatively constant elevation along a generalized contour.

This map was produced by computer-aided cartography using the GIMMAP (Geologic Interactive Management Map Analysis and Production) system developed at the Kansas Geological Survey.

The Kansas Geological Survey does not guarantee this map to be free of errors or omissions. The Survey disclaims any responsibility or liability for interpretations made from the map or decisions based thereon.

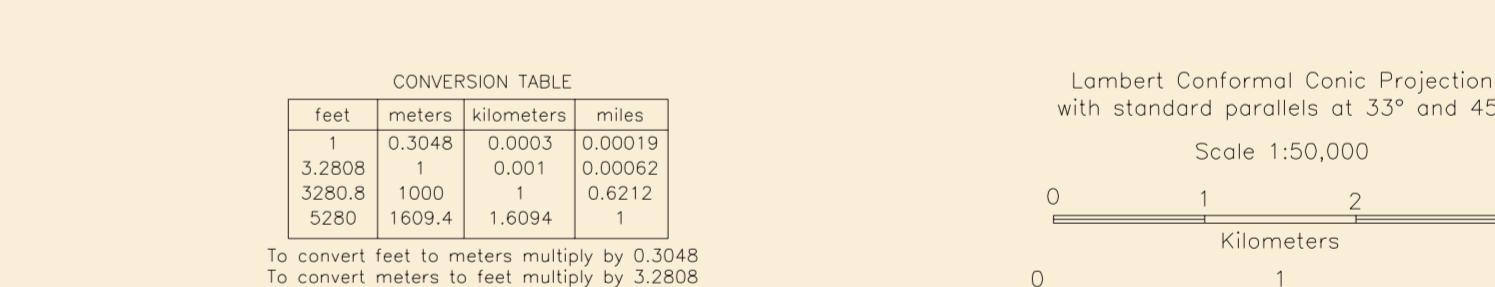
Suggested reference to this map:  
Smith, B.D., and Archer, A.W., 1995. Geologic Map, Riley County, Kansas: Kansas Geological Survey, Map M-36, scale 1:50,000.



EXPLANATION

Legend for rock types and textures:

- Sandstone or sand
- Block shale
- Crossbedded limestone
- Siltstone
- Variolated shale or clay
- Limestone
- Unconsolidated silt and clay
- Shale or claystone
- Calcareous dolomite
- Dolomite
- Salt (subsurface only)



CONVERSION TABLE

Lambert Conformal Conic Projection with standard parallels at 33° and 45°

Scale 1:50,000

0 Kilometers

0 Miles

1 2 3

Convergence (NA) and 1980 magnetic declination (NA)  
Diagram is approximate

Diagram is approximate

Scale 1:50,000

0 Kilometers

0 Miles

1 2 3

Diagram is approximate

Scale 1:50,000

0 Kilometers

0 Miles

1 2 3

Diagram is approximate

Scale 1:50,000

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Diagram is approximate

Scale 1:50,000

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Scale 1:50,000

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Diagram is approximate