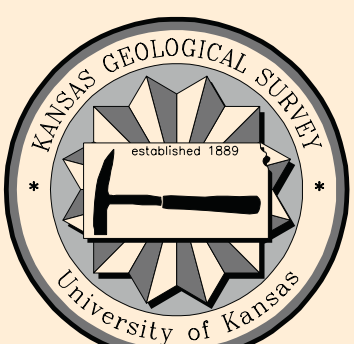
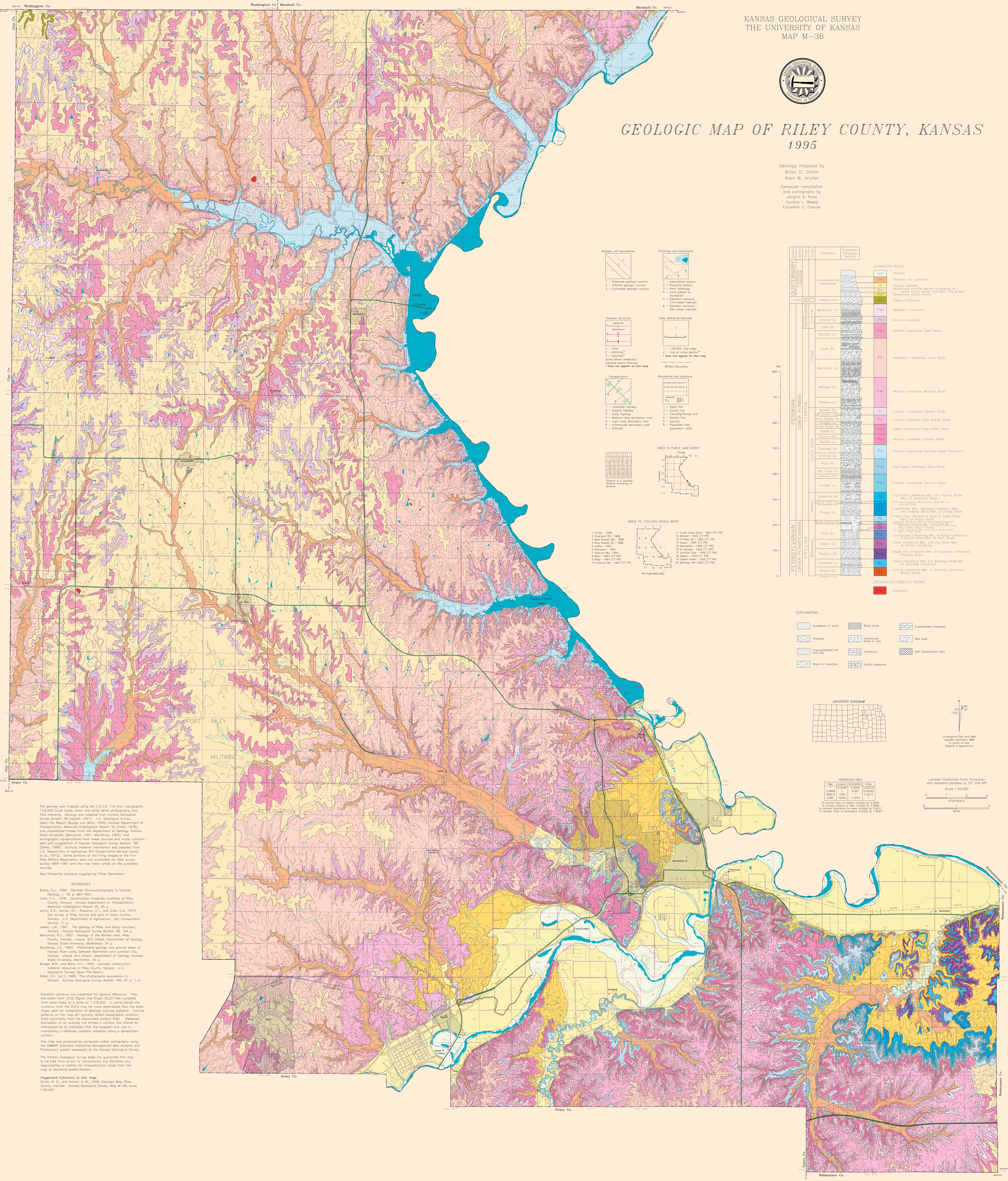




GEOLOGIC MAP OF RILEY COUNTY, KANSAS

1995

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



The geology was mapped using the U.S.G.S. 7.5-min. topographic 1:25,000 scale maps, based on aerial photography, and field checking. Geology was mapped from Kansas Geological Survey Bulletin 39 (Jewett, 1941), U.S. Geological Survey Open-File Report (Mudge and Beck, 1949), Kansas Department of Transportation, Materials Investigation Report 35 (Cook, 1975), and unpublished theses from the Department of Geology, Kansas State University (Gentryman, 1957; Moulthrop, 1963), and stratigraphic nomenclature from these sources was made conformable with suggestions of Kansas Geological Survey Bulletin 189 (Zeller, 1966). Surface material information was adopted from U.S. Department of Agriculture Soil Conservation Service (Gentry et al., 1972). Some portions of the first report of the Fort Riley Military Reservation were not accessible for field survey during 1989-1991 and the map relies solely on the published sources.

New Kimberlin locations supplied by Peter Berendson.

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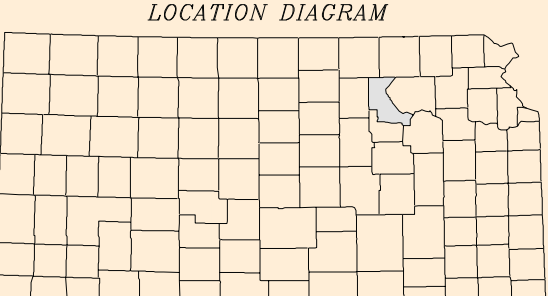
Elevation contours are presented for general reference. They are taken from USGS Digital Line Graph (DLG) files compiled from base maps of a scale of 1:100,000. In some places the contours from the DLG may be more generalized than the base maps used for compilation of geologic outcrop patterns. Outcrop patterns on the map will reflect topographic relief more accurately than the associated contour lines. Repeated fluctuation of an outcrop line across a contour line should be interpreted as an indication that the mapped rock unit is maintaining a relatively constant elevation along a generalized contour.

This map was produced by computer-aided cartography using the GEMAP (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 from errors or inaccuracies and 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



CONVERSION TABLE

Feet	Meters	Kilometers	Miles
1	0.3048	0.0003048	0.000621371
10	3.048	0.003048	0.00621371
100	30.48	0.03048	0.0621371
1000	304.8	0.3048	0.621371
10000	3048	3.048	6.21371
100000	30480	30.48	62.1371
1000000	304800	304.8	621.371

Lambert Conformal Conic Projection
with standard parallels at 35° and 45°
Scale 1:50,000

0 1 2
Kilometers

0 1 2
Miles