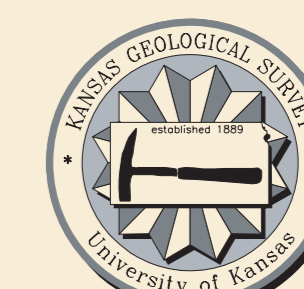


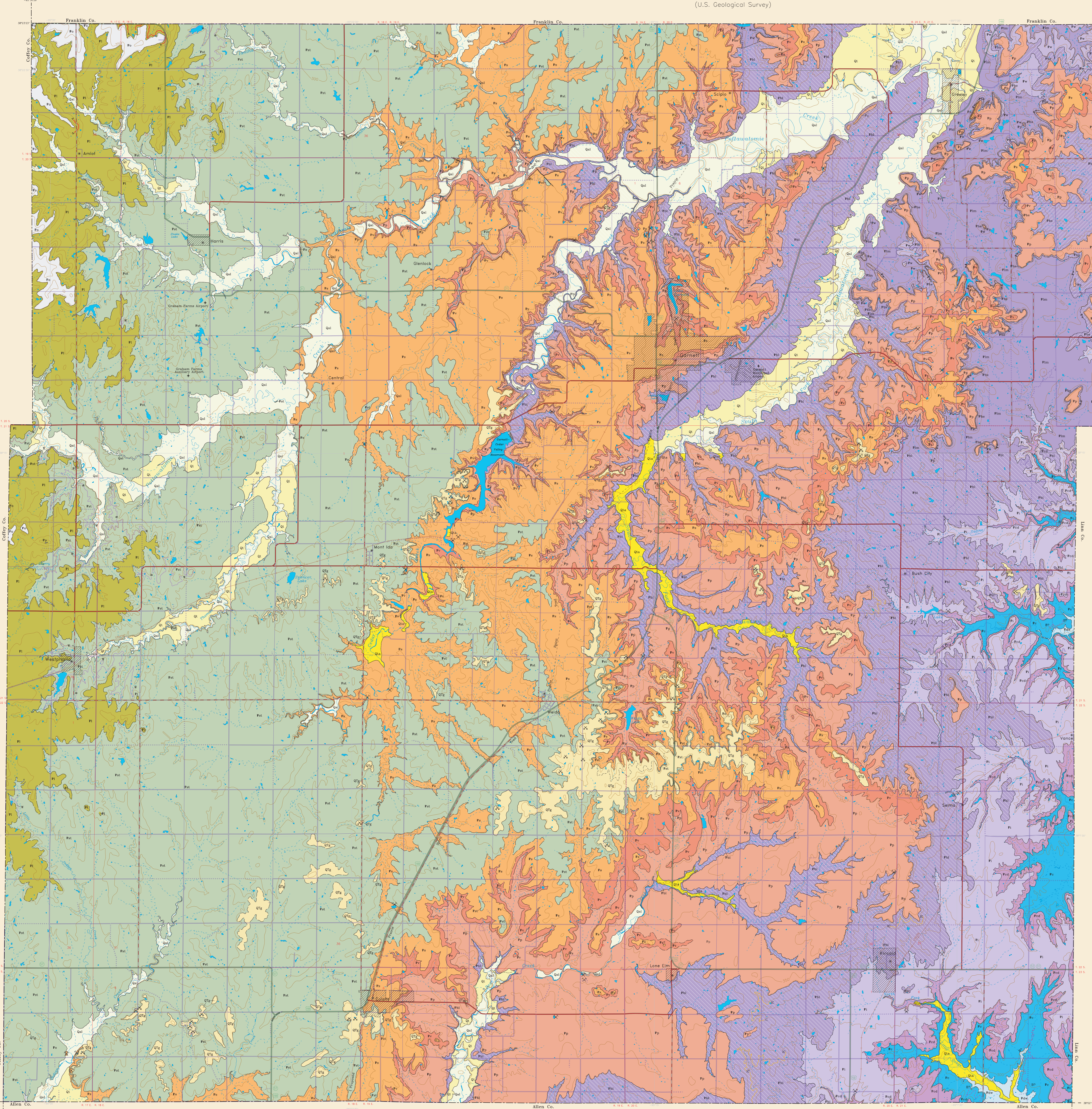
GEOLOGIC MAP OF ANDERSON COUNTY, KANSAS

2001

William D. Johnson, Jr.
(U.S. Geological Survey)



Computer compilation
and cartography by
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Unit	Member	Formation	Age	System
Q1	Alluvium	Quaternary	Q	Quaternary
Q2	Terrace Deposits	Quaternary	Q	Quaternary
Q3	Chert Gravel	Quaternary	Q	Quaternary
P1	Pittsburg Ls.	Pittsburg Fm.	P	Pennsylvanian
P2	Lawrence Ls.	Lawrence Fm.	P	Pennsylvanian
P3	Inland Ss.	Inland Fm.	P	Pennsylvanian
P4	Robbins Sh.	Robbins Fm.	P	Pennsylvanian
P5	Haskell Ls.	Haskell Fm.	P	Pennsylvanian
P6	Westphalia Ls.	Westphalia Fm.	P	Pennsylvanian
P7	Tongueville Ss.	Tongueville Fm.	P	Pennsylvanian
P8	Weston Sh.	Weston Fm.	P	Pennsylvanian
P9	Stoner Ls.	Stoner Fm.	P	Pennsylvanian
P10	Stanton Ls.	Stanton Fm.	P	Pennsylvanian
P11	Caplan Creek Ls.	Caplan Creek Fm.	P	Pennsylvanian
P12	Visco Sh.	Visco Fm.	P	Pennsylvanian
P13	Spring Hill Ls.	Spring Hill Fm.	P	Pennsylvanian
P14	Hiway Creek Sh.	Hiway Creek Fm.	P	Pennsylvanian
P15	Banner Springs Ss.	Banner Springs Fm.	P	Pennsylvanian
P16	Harold Creek Ss.	Harold Creek Fm.	P	Pennsylvanian
P17	Argentine Ls.	Argentine Fm.	P	Pennsylvanian
P18	Raytown Ls.	Raytown Fm.	P	Pennsylvanian
P19	Muskegon Ss.	Muskegon Fm.	P	Pennsylvanian
P20	Plymouth Ls.	Plymouth Fm.	P	Pennsylvanian
P21	Stange Creek Ss.	Stange Creek Fm.	P	Pennsylvanian
P22	Cherokee Sh.	Cherokee Fm.	P	Pennsylvanian
P23	Carroll Ls.	Carroll Fm.	P	Pennsylvanian
P24	Quincy Ss.	Quincy Fm.	P	Pennsylvanian
P25	Natick Sh.	Natick Fm.	P	Pennsylvanian
P26	Wichita Ss.	Wichita Fm.	P	Pennsylvanian
P27	Furness Sh.	Furness Fm.	P	Pennsylvanian
P28	Winterset Ls.	Winterset Fm.	P	Pennsylvanian

*Note: Numerical changes in stratigraphic nomenclature are shown in this digital version of original work by W.D. Johnson, Jr. For more information on these changes, see Hecker, P.H., and Johnson, W.D., in press, *Revised Stratigraphic Nomenclature and Classification of the Pennsylvanian, Kansas City, Lansing and Lower Part of the Douglas Groups (Lower Upper Pennsylvanian, Missourian)* in *Kansas Geological Survey Bulletin 248*.

Geology of the mapping units was related from the original 1925 1:62,500-scale Geologic Map of the North Quadrangle and Parts of the North SE, Westphalia, and South Quadrangles, Anderson County, Kansas; U.S. Geological Survey, Map 1231, scale 1:24,000, 1925; Geologic Map of the Central West and Part of the Richmond Quadrangles, Anderson County, Kansas; U.S. Geological Survey, Map 1232, scale 1:24,000, 1925; Geologic Map of the Central East Quadrangle and Parts of the Central SE, Central NW, and East Quadrangles, Anderson County, Kansas; U.S. Geological Survey, Map 1233, scale 1:24,000, 1925; Geologic Map of the South City Quadrangle and Parts of the South Central and Blue Mount Quadrangles, Anderson County, Kansas; U.S. Geological Survey, Map 1237, scale 1:24,000, 1925; Geologic Map of the Westphalia Quadrangle and Parts of the Geneva, Koscusko, and Nowata Quadrangles, Anderson County, Kansas; U.S. Geological Survey, Map 1239, scale 1:24,000, 1925; Geologic Map of the West Quadrangle and Part of the Green Quadrangle, Anderson County, Kansas; U.S. Geological Survey, Map 1239, scale 1:24,000, 1925.

EXPLANATION	Symbol	Description
Shale or claystone	[Pattern]	Shale or claystone
Sandstone or sand	[Pattern]	Sandstone or sand
Chert gravel	[Pattern]	Chert gravel
Undifferentiated sandstone or siltstone	[Pattern]	Undifferentiated sandstone or siltstone
Shale or claystone	[Pattern]	Shale or claystone
Black shale	[Pattern]	Black shale
Coal or lignite locally with underlay	[Pattern]	Coal or lignite locally with underlay
Limestone	[Pattern]	Limestone

Geologic unit boundaries	Geologic structure	Resource development	Hydrology and topography
1 - Observed geologic contact	1 - Fault	1 - Quarry	1 - Intermittent stream
2 - Inferred geologic contact	2 - Anticline*	2 - Abandoned quarry	2 - Perennial stream
3 - Concealed geologic contact	3 - Syncline*	3 - Abandoned pit	3 - Areal hydrology
	4 - Fault (solid where observed, dashed where inferred)	4 - Oil well	4 - Dam
	* Does not appear on this map	5 - Gas well	5 - Elevation contours (10-meter interval)
		6 - Water well	6 - Elevation contours (50-meter interval)
		7 - Does not appear on this map	

Index reference features	Transportation	Boundaries and locations
1 - 1:24,000 map edge	1 - Interstate highway*	1 - State line
2 - Line of cross section	2 - Federal highway	2 - County line
* Does not appear on this map	3 - State highway	3 - Township/Range line
	4 - Medium-duty primary and secondary roads	4 - Section line
	5 - Light-duty secondary road	5 - Locality
	6 - Unimproved secondary road	6 - Populated area (population >500)
	7 - Railroad	* Does not appear on this map
	8 - Airport or landing strip	
	* Does not appear on this map	
	* "The Prairie Spirit Trail"	

INDEX TO PUBLIC LAND SURVEY	INDEX TO 1:24,000-SCALE MAPS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 Kaney-1897 (73 PR) 2 Williamsburg-1892 (85 PR) 3 Buchanan-1892 (86 PR) 4 Lane-1898 (83 PR) 5 Lawrence-1898 (83 PR) 6 Kaney-1897 7 Curran-1898 (83 PR) 8 Garnett-1898 (83 PR) 9 Blue Mount-1896 (83 PR)

Roads and highways are shown on the base map as represented by data in the Kansas Geographic Database. The data is derived primarily from the Geographic Survey of 1:24,000-scale topographic maps. An accurate data is acquired, the base map will be revised to reflect new highway construction (not yet represented on the U.S. Geological Survey maps).

The geology was mapped in the field using U.S.G.S. 7.5-min. 1:24,000-scale topographic maps. A preliminary 1:62,500-scale map compiled by R.C. Moore for the 1926 edition of the state geological map was available for field checking.

This map was produced by computer-aided cartography using the GEMAP (Geologic Information 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 distortions and disclaims any responsibility or liability for interpretations made from the map or sections based thereon.

The Kansas Geological Survey is presented for general reference. They were taken from 1926 Digital Line Graph (DLG) files compiled from base maps at a scale of 1:100,000. In some places the contour from the DLG may be more generalized than the base map data or may not reflect topographic variation. Topographic features on the map will typically reflect topographic variation more accurately than the base map data. Reported fluctuations 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.

CONVERSION TABLE

Feet	Meters	Meters	Miles
1	0.3048	0.0003	0.0001
3,280.8	1	0.0003	0.0001
3,280.8	1,000	1	0.6214
5,280	1,609.3	1.6094	1

To convert feet to meters multiply by 0.3048
To convert meters to feet multiply by 3.2808
To convert kilometers to miles multiply by 0.6214
To convert miles to kilometers multiply by 1.6094

Scale 1:50,000
Lambert Conformal Conic Projection
with standard parallels at 36° and 40°

0 1 2 Kilometers
0 1 2 Miles

Elevation contours are provided for general reference. They were taken from 1926 Digital Line Graph (DLG) files compiled from base maps at a scale of 1:100,000. In some places the contour from the DLG may be more generalized than the base map data or may not reflect topographic variation. Topographic features on the map will typically reflect topographic variation more accurately than the base map data. Reported fluctuations 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.

Geologic mapping of Anderson County, Kansas, was completed under a COGEMAP agreement between the Kansas Geological Survey and the U.S. Geological Survey.

Suggested reference to this map:
Johnson, W.D., Jr., 2001, *Geologic Map of Anderson County, Kansas*. Kansas Geological Survey, Map M-100, sheet 1:50,000.