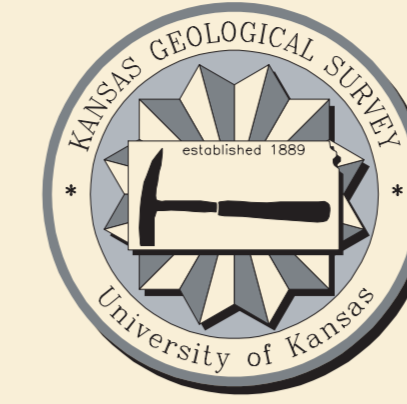


GEOLOGIC MAP OF DOUGLAS COUNTY, KANSAS

Geology mapped by
Howard G. O'Connor

KANSAS GEOLOGICAL SURVEY
THE UNIVERSITY OF KANSAS
MAP M-26



Revised 1992

Computer compilation and cartography by
Jorgina A. Ross
Steve Phing Lee
Elizabeth C. Crouse

Geologic unit boundaries

- 1 - Observed geologic contact
- 2 - Inferred geologic contact
- 3 - Concealed geologic contact

Boundaries and locations

- 1 - State line
 - 2 - County line
 - 3 - Township Range line
 - 4 - Section line
 - 5 - County seat
 - 6 - City
 - 7 - Locality
 - 8 - City boundary
- * Does not appear on this map

Geologic structure

- 1 - Fault
 - 2 - Anticline
 - 3 - Syncline
- (Solid where observed)
(Dashed where inferred)

Hydrology and topography

- 1 - Intermittent stream
- 2 - Perennial stream
- 3 - Area hydrology
- 4 - Land subject to inundation
- 5 - Elevation contours (10-meter interval)
- 6 - Elevation contours (50-meter interval)

Transportation

- 1 - Interstate highway
- 2 - Federal highway
- 3 - State highway
- 4 - Medium-duty primary and secondary roads
- 5 - Light-duty secondary road
- 6 - Unimproved secondary road
- 7 - Railroad
- 8 - Airport or landing strip

Index reference features

- 1 - 1:24,000 map edge
 - 2 - Line of cross section
- * Does not appear on this map

QUATERNARY SYSTEM

- Pleistocene Series
- Qal Alluvium
 - Qtn Newnan Terrace deposits
 - Qbc Buck Creek Terrace deposits
 - Qlu Undifferentiated terrace and colluvial deposits mainly in smaller stream valleys
 - Qkl Till and upland glacio-fluvial deposits

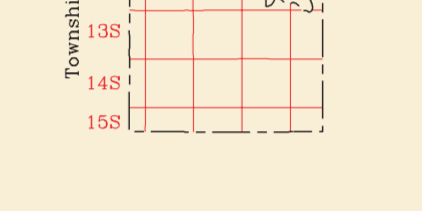
PENNSYLVANIAN SYSTEM

- Virgiana Series
- Shawnee Group
- Psl Topoka Limestone
 - PsdC Calhoun Shale and Deer Creek Limestone
 - Psl Tecumseh Shale and Leecompton Limestone
 - Pso Kanwaka Shale and Oread Limestone
- Douglas Group
- Pdl Lawrence Formation
 - Pds Top of Haskell Limestone to the base of Tonganoxie Sandstone of Stranger Formation
 - Ppw Base of Tonganoxie Sandstone (Stranger Formation) to the top of Stanton Limestone

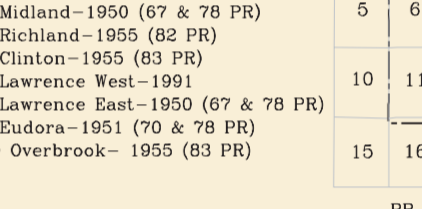
Missourian Series

- Lansing Group
- Pls Stanton Limestone
 - Plp Viola Shale and Plattburg Limestone

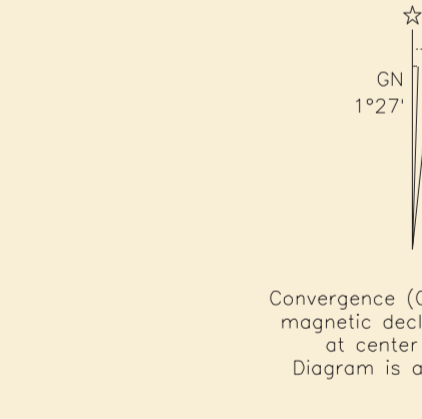
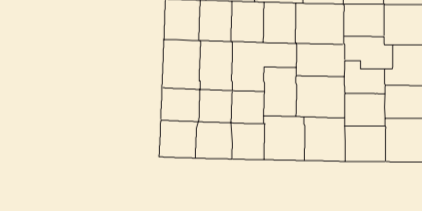
INDEX TO PUBLIC LAND SURVEY



INDEX TO 1:24,000-SCALE MAPS



LOCATION DIAGRAM



Convergence (D) and 1981 magnetic declination (M) at center of map. Diagram is approximate.

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

feet	meters	kilometers	miles
1	0.3048	0.0003	0.00019
3280.8	1000	0.62137	0.62137
5280	1609.3	1.00461	1.00461

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 0.62137
To convert miles to kilometers multiply by 1.60934

Elevation contours are presented for general reference. They are taken from USGS Digital Line Graph (DLG) files compiled from base maps at a scale of 1:100,000. In some places the contours from the DLG's may be more generalized than the base maps used for compilation of geologic outcrop patterns. Outcrop patterns on the map will typically reflect topographic variation 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 is an updated version of the AREAL GEOLOGY OF DOUGLAS COUNTY KANSAS, Bulletin 148, Plate 1, Geology mapped in 1959 by Howard G. O'Connor. Cultural updates and geologic corrections to this map were compiled by Jorgina A. Ross and reviewed by Lawrence L. Brady.

This map was produced by computer-aided cartography using the CIMAP (Geospatial 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:
O'Connor, H. G., 1992 (revised), Geologic Map, Douglas County, Kansas: Kansas Geological Survey, Map M-26

- PENNSYLVANIAN (Shawnee, Douglas, Lansing, and Kansas City Groups)
- PENNSYLVANIAN (Pleasanton, Marmaton, and Cherokee Group)
- MISSISSIPPIAN
- MISSISSIPPIAN or DEVONIAN (Chattanooga Shale)
- DEVONIAN
- ORDOVICIAN (Simpson Group and Viola Limestone)
- CAMBRIAN and ORDOVICIAN (Arbuckle Group and Lamotte Sandstone)
- PRECAMBRIAN

Generalized east-west geologic cross section across central Douglas County showing major rock units

