

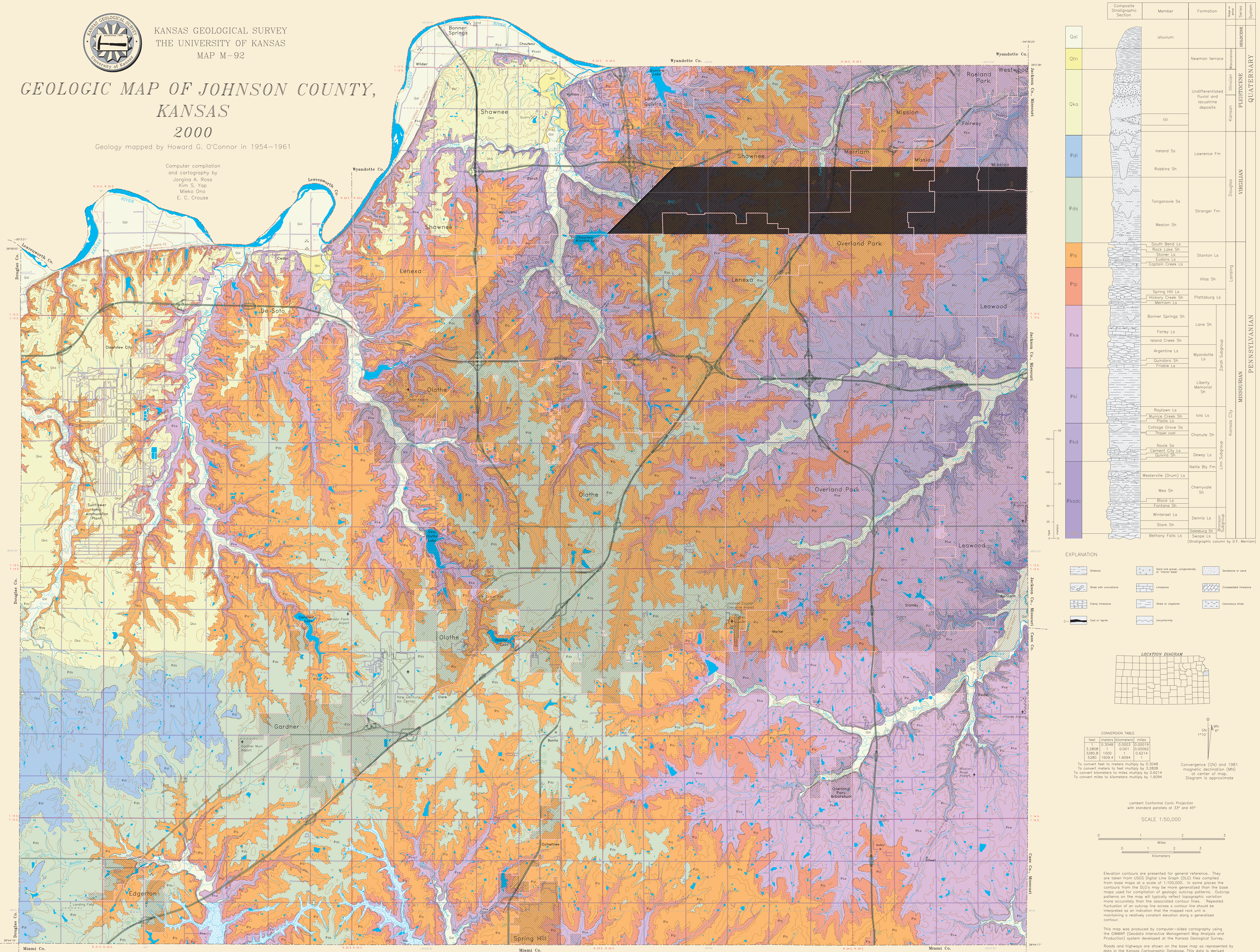
KANSAS GEOLOGICAL SURVEY
THE UNIVERSITY OF KANSAS
MAP M-92

GEOLOGIC MAP OF JOHNSON COUNTY, KANSAS

2000

Geology mapped by Howard G. O'Connor in 1954-1961

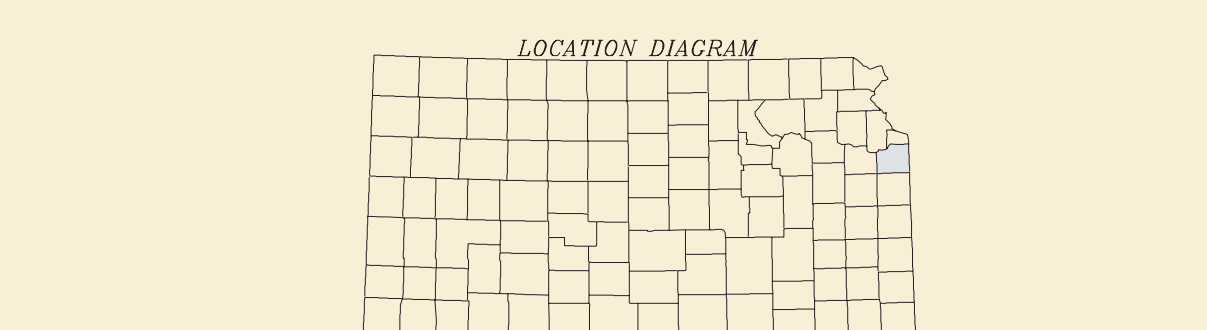
Computer compilation and cartography by
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Composite Stratigraphic Section	Member	Formation	Age	Series	System				
Quaternary	Qal	alluvium	Recent	QUATERNARY	Holocene				
	Qtn	Newman terrace	Recent						
	Qka	Undifferentiated fluvial and lacustrine deposits	Recent						
Pleistocene	Pdl	Ireland Ss	Illinoian	PLEISTOCENE	VIRGILIAN				
	Pds	Robbins Sh	Kansan						
	Pds	Tonganoxie Ss	Missourian						
Pennsylvanian	Pis	South Bend Ls Rock Lake Sh Stanton Ls	Pennsylvanian	MISSOURIAN	LANSING				
	Pip	Eudora Ls Captain Creek Ls							
	Pkw	Vilas Sh Spring Hill Ls Hickory Creek Sh Merriam Ls							
	Pki	Bonner Springs Sh Lone Sh Farley Ls Island Creek Sh Argentine Ls Wandotte Ls							
	Pkd	Liberty Memorial Sh							
	Missourian	Pksdc				Raytown Ls Munice Creek Sh Toga Ls Cottage Grove Ss Troy Ss	MISSOURIAN	KANSAS CITY	Linn Subgroup
		Pksdc				Chanute Sh			
		Pksdc				Nowe Ss Carnett City Ls Quivira Ss			
		Pksdc				Dewey Ls			
		Pksdc				Nelle Bly Fm			
Missourian	Pksdc	Westerville (Dum) Ls Wee Sh Black Ls	MISSOURIAN	BRONSON	Linn Subgroup				
	Pksdc	Cherryvale Sh							
	Pksdc	Winterset Ls Stark Sh							
	Pksdc	Dennis Ls							
	Pksdc	Bethany Falls Ls							

EXPLANATION

	Shale		Sand and gravel, conglomerate, or pebble beds		Sandstone or siltstone
	Shale with concretions		Limestone		Crossbedded limestone
	Cherty limestone		Shale or siltstone		Calcareous shale
	Coal or lignite		Unconformity		

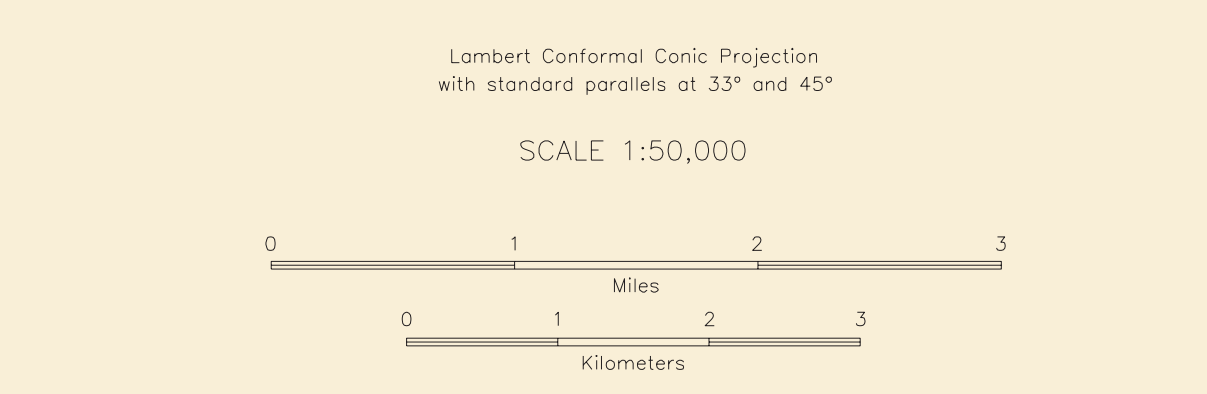


CONVERSION TABLE

feet	meters	kilometers	miles
0.3048	1.0000	0.00062137	0.00062137
3.2808	1.0000	0.00062137	0.00062137
3280.8	1000.0	0.62137	0.62137
3280.8	1609.34	1.00000	1.00000

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

Convergence (GN) and 1981 magnetic declination (MN) at center of map. Diagram is approximate.



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 was produced by computer-aided cartography using the CIMMAP (Geodata Interactive Management Map Analysis and Production) system developed at the Kansas Geological Survey. Roads and highways are shown on the base map as represented by data in the Kansas Cartographic Database. This data is derived primarily from U.S. Geological Survey 1:24,000-scale topographic maps. As accurate data is acquired, the base map will be revised to reflect new highway construction (not yet represented on U.S. Geological Survey maps).

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., [1972] 2000. Geologic Map of Johnson County, Kansas. Kansas Geological Survey, Map M-92, scale 1:50,000; revised from Bulletin 203, plate 1.

Partially funded by the National Cooperative Geologic Mapping STATEMAP Program.
ISBN NO. 1-58806-931-1

Geologic unit boundaries

- Observed geologic contact
- Inferred geologic contact
- Concealed geologic contact

Hydrology and topography

- Intermittent stream
- Parental stream
- Areal hydrology
- Land subject to inundation
- Elevation contours (10-meter intervals)
- Elevation contours (50-meter intervals)

Geologic structure

- Fault
- Anticline
- Syncline

Index reference features

- 1:24,000 map edge
- Line of cross section

Transportation

- Interstate highway
- Federal highway
- State highway
- Medium-duty secondary road
- Light-duty secondary road
- Unimproved secondary road
- Railroad
- Airport or landing strip

Boundaries and locations

- State line
- County line
- Township/Range line
- Section line
- Locality
- Populated area (population >500)

Resource development

- Abandoned quarry
- Mine
- Oil well
- Gas well
- Water well

INDEX TO PUBLIC LAND SURVEY

Range	Section
21E 22E 23E 24E 25E	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

INDEX TO 1:24,000 SCALE MAPS

Map No.	Year	Scale
1	1950	78 PR
2	1950	75 PR
3	1950	75 PR
4	1954	75 PR
5	1954	75 PR
6	1957	78 PR
7	1957	75 PR
8	1956	75 PR
9	1957	75 PR
10	1964	75 PR
11	1954	78 PR
12	1957	70 PR
13	1956	75 PR
14	1956	75 PR
15	1953	75 PR
16	1956	73 PR
17	1957	73 PR
18	1957	73 PR
19	1956	75 PR
20	1953	75 PR