



**GEOLOGIC MAP OF
KEARNY COUNTY,
KANSAS
2003**

Geology mapped by
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Computer compilation
and editing by
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System	QUATERNARY			TERTIARY			CRETACEOUS		
	HOLOCENE	LATE PLEISTOCENE	HYDROGEN PLIOCENE	MIOCENE	UPPER CRETACEOUS	COLORADO	MISSOURI	WICHITA	ANOMALOUS
Series	HOLOCENE								
Member									
Formation									
Group									
Aluminum Flood plain deposits									
Terrace deposits									
Pleio deposits									
Eolian sand dunes									
Eolian sand sheet									
Loess									
Ogallala Fm									
Jetmore Chalk Mbr									
Hartford Sh Mbr									
Lincoln Ls Mbr									
Graneros Sh									
Dakota Fm									
Active Sands									
As									
Undifferentiated sandstone or siltstone									
Variolated shale or clay									
Calcareous shale									
Chalk									
Chalky limestone									
Cherty limestone									
Shaly limestone									
Limestone									
Sand and gravel, sandstone and pebble bed									
Unconsolidated silt and clay									
Geologic unit boundaries									
Hydrology and topography									
EXPLANATION									
1 Observed geologic contact									
2 Inferred geologic contact									
3 Concealed geologic contact*									
4 Does not appear on this map									
Geologic structure									
1 Fault									
2 Syncline*									
3 Anticline*									
4 Syncline (solid where observed)									
5 Anticline (solid where inferred)									
6 Does not appear on this map									
Transportation									
1 Interstate highway*									
2 State highway									
3 Major daily secondary road									
4 Light-duty secondary road									
5 Unimproved secondary road									
6 Airport or landing strip									
Boundaries and locations									
1 State line									
2 County line									
3 Township/Range line									
4 Section line									
5 City seat									
6 City									
7 Locality									
8 City boundary									
Resource development									
1 Quarry*									
2 Pit									
3 Shale pit									
4 Coal seam									
5 Gas well(s)									
6 Water well(s)									
Data not appear on this map									
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									
PR - Photocolor									
LOCATION DIAGRAM									
Convergence (GN) and 1997 magnetic declination (MN) Diagram is approximate									
Lambert Conformal Conic Projection with standard parallels at 33° and 45°									
Scale 1:50,000									
0 1 Kilometers									
0 1 Miles									
CONVERSION TABLE									
feet meters kilometers miles									
1 0.3048 0.0003 0.00019									
3,000 914.44 0.001 0.0002									
1000 304.8 0.0001 0.00014									
3000 914.44 0.001 0.00024									
To convert feet to meters multiply by 0.3048 To convert meters to feet multiply by 3,280.84 To convert miles to kilometers multiply by 1.60934 To convert kilometers to miles multiply by 0.62137									
Geologic contours are presented for general reference. They are taken from USGS digital line graph (DLG) files compiled from maps at a scale of 1:100,000. No maps are included in this report. The DLGs may be more generalized than the base maps used for compilation of geologic data. The base maps are the 1:24,000-scale topographic maps of the county. Contours are more accurately than the associated contour lines. Repeated fluctuation of line across a relatively constant elevation along a generalized contour.									
The geology was mapped using the USGS 1:24,000-scale (7.5-min.) topographic maps, 1:24,000-scale soil surveys, and 1:24,000-scale land use/land cover maps. The base maps were obtained from the USGS (1990), the Soil Conservation Service (1985), the U.S. Department of Agriculture (1985), the U.S. Fish and Wildlife Service (1985), the U.S. Geological Survey (1985), and the Kansas Geological Survey (1985).									
This map was produced by computerized cartographic systems developed by the Kansas Geological Survey. The Kansas Geological Survey does not guarantee this map to be free from errors or inaccuracies due to the nature of the data used in its preparation. The user assumes all responsibility or liability for interpretations made from the map or decisions based thereon.									
Suggested reference to this map: Map 1:24,000 scale 1:24,000; Map 1:100,000 scale 1:100,000; Map 1:250,000 scale 1:250,000; Map 1:500,000 scale 1:500,000. Topographic map 1:24,000 scale 1:24,000; Topographic map 1:100,000 scale 1:100,000; Topographic map 1:250,000 scale 1:250,000; Topographic map 1:500,000 scale 1:500,000.									
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