


# GEOLOGIC MAP OF RUSSELL COUNTY, KANSAS 1996

Geology mapped by  
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KANSAS GEOLOGICAL SURVEY  
THE UNIVERSITY OF KANSAS  
MAP M-37

Computer compilation  
and cartography by  
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System	Series	Formation	Composite Stratigraphic Section
HOLOCENE	Alluvium		
	Fluvial deposits		
	Loess		
QUATERNARY			
PLIOCENE			
TERTIARY			
MIOCENE	Ogallala	To	Qal Floodplain and low-terrace deposits Q1 High-terrace deposits Q11 Low-terrace deposits in the Smoky Hill River valley Q12 High-terrace deposits in the Smoky Hill River valley Ql Loess
NEOGENE	Niobrara Chk	Kns	Valley side-wall deposits
	Carondelet	Knf	Ogallala Formation
CRETACEOUS	Colorado	Knb	Smoky Hill Chk Mbr
	Greenhorn Ls	Kcf	Fort Hays Ls Mbr
	Graneros Sh	Kgh	Blue Hill Sh Mbr
	Dakota	Kgr	Fencepost Is
		Kid	Greenhorn Ls
			Graneros Sh
			Dakota Formation

Geologic unit boundaries		Hydrology and topography
1	Generalized contact	1 - Perennial stream
2	Inferred geologic contact	2 - Aerial hydrology
3	Concealed geologic contact	3 - Hydrology
		4 - 10-meter elevations
		5 - 10-meter contours
		6 - 100-meter contours
		7 - 500-meter contours
		8 - Boundaries and sections
Transportation		Hydrology and topography
1	Interstate highway	1 - State line
2	Federal highway	2 - Township/Range line
3	State highway	3 - Section line
4	Medium-duty secondary road	4 - Line of cross section
5	Light-duty secondary road	5 - Unimproved secondary road
6	Roadless	6 - Roadless area population >500
Index reference features		
1	A	1 - T-10,000 scale edge
2	B	2 - Line of cross section
		* Does not appear on this map

INDEX TO PUBLIC LAND SURVEY	
Range	108W 148 149 150 151 152
Section	115 116 117 118 119 120 121 122 123 124
Quarter Section	115 116 117 118 119 120 121 122 123 124
1/16 Section	115 116 117 118 119 120 121 122 123 124

INDEX TO 1:24,000-SCALE MAPS	
1 Nottom - 1978	1 2 3 4 5 6 7 8
2 Ponca NW - 1978	9 10 11 12
3 Ponca NE - 1978	13 14 15 16 17 18
4 Vincit - 1978	19 20 21 22 23 24
5 Modena - 1978	25 26 27 28 29 30
6 Hutter - 1967	
7 Forney - 1978	
8 Poncet - 1978	
9 Redick - 1978	
10 Lundy - 1978	
11 Lundy - 1978	
12 Simon Grove - 1963	
13 Simon Grove - 1963	
14 Russell NW - 1967	
15 Russell - 1967	
	16 Domance NW - 1967
	17 Domance NE - 1967
	18 Walker NW - 1961 (79 PR)
	19 Walker NE - 1961 (79 PR)
	20 Homer - 1961 (79 PR)
	21 Homer - 1961 (79 PR)
	22 Domance - 1956 (79 PR)
	23 Domance - 1956 (79 PR)
	24 Ohs - 1969 (79 PR)
	25 Ohs - 1969 (79 PR)
	26 Sutor - 1969 (79 PR)
	27 Sutor - 1969 (79 PR)
	28 Dubuce - 1969
	29 Dubuce - 1969
	30 Hopkirk NW - 1964

CONVERGENCE TABLE	
feet	kilometers
0.3048	0.0003
1,000	0.0009
3,000	0.0027
10,000	0.012
30,000	0.036

To convert feet to meters multiply by 0.3048

at center of map

To convert meters to feet multiply by 3.2808

at center of map

Diagram to approximate

The geology was compiled using the U.S. 1:24,000-scale Digital Line Graph (DLG) files compiled from the 1990 edition of the USGS 1:250,000-scale quadrangle topographic maps. The contours from the DLGs may be more generalized than the base maps used for compilation of geological outcrop patterns. Outcrop patterns are based on the 1:250,000-scale topographic map, more accurately than the associated contour lines. Repeated labeling of rock units is based on the outcrop patterns, interpreted as an indication that the mapped rock unit is moderately to relatively constant along a generalized contour.

This map was produced by computer-aided cartography using the CIMAP (Geodatabase Interoperability Map Analysis and Production System) developed by the Kansas Geological Survey. The Kansas Geological Survey does not guarantee this map to be free from errors or inaccuracies and disclaims any responsibility for damages resulting from use of the map or decisions made therefrom.

Supplements information: This map, Arbogast, A.F., and Johnson, W.C., 1996, Geologic Map, Russell County, Kansas, Kansas Geological Survey, Map M-37, scale 1:50,000.

Photographs:

Lambert Conformal Conic Projection

with standard parallels at 33° and 45°

Scale 1:50,000

Kilometers

Miles