

KANSAS GEOLOGICAL SURVEY  
THE UNIVERSITY OF KANSAS  
MAP M-19

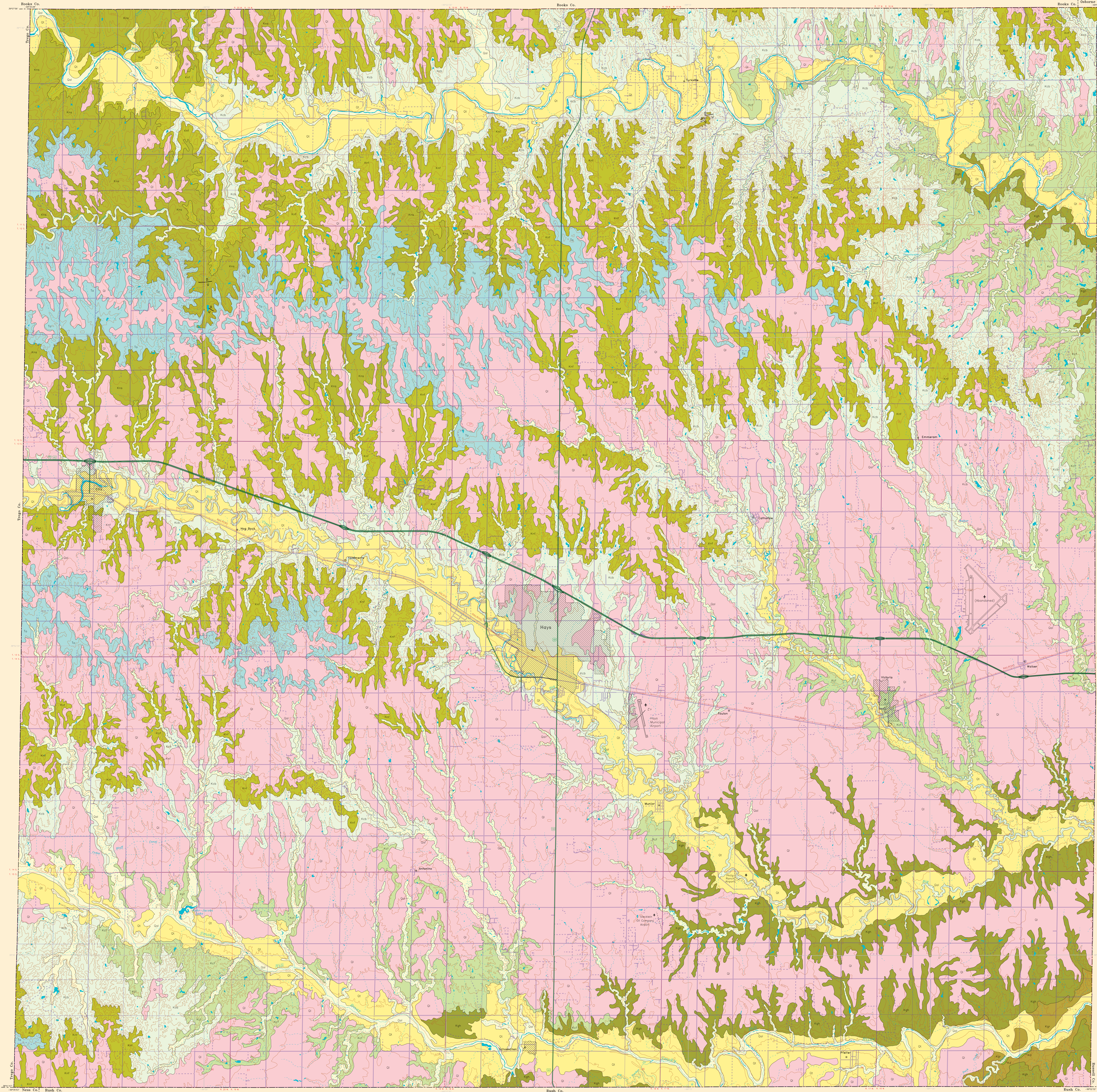
# GEOLOGIC MAP OF ELLIS COUNTY, KANSAS

1988

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System	Series	Group	Formation	Member
QUATERNARY	Alluvium	Terrace Deposits	Loess	Qa1
				Qf
				Qt
TERTIARY - MODERN	Eocene - Miocene	Ogallala Formation	Niobrara Chalk	To
				Kns
CRETACEOUS	UPPER CRETACEOUS	Colorado	Carlisle Shale	Kcl
				Kcc
				Kcb
				Kcf
				Kgh
LOWER CRETACEOUS	Gronovian Limestone	Fossiliferous Chalk	Gronovian Shale	Kgr
				Kd

## Stratigraphic Section Explanation

- Sand and gravel, conglomerate, or "barber beds"
- Sandstone or sand
- Undifferentiated sandstone or siltstone
- Shale or claystone
- Calcareous shale
- Calcareous concretions
- Limestone
- Cherty limestone
- Chalk
- Bentonite

## Geologic unit boundaries

- 1 - Observed geologic contact
- 2 - Inferred geologic contact
- 3 - Generalized geologic contact
- 4 - Fault
- 5 - Syncline
- 6 - Unconformity
- 7 - Discontinuity
- 8 - Discontinuity

## Index reference features

- 1 - 124,000 map edge
- 2 - Line of cross section
- 3 - Section line
- 4 - Section line
- 5 - Section line
- 6 - Section line
- 7 - Section line
- 8 - Section line

## INDEX TO PUBLIC LAND SURVEY

- 1 - 124,000 map edge
- 2 - Line of cross section
- 3 - Section line
- 4 - Section line
- 5 - Section line
- 6 - Section line
- 7 - Section line
- 8 - Section line

## INDEX TO 1:24,000-SCALE MAPS

- 1 - 124,000 map edge
- 2 - Line of cross section
- 3 - Section line
- 4 - Section line
- 5 - Section line
- 6 - Section line
- 7 - Section line
- 8 - Section line

## LOCATION DIAGRAM

- 1 - 124,000 map edge
- 2 - Line of cross section
- 3 - Section line
- 4 - Section line
- 5 - Section line
- 6 - Section line
- 7 - Section line
- 8 - Section line

## ACKNOWLEDGMENTS

This map was compiled by James C. Pool under the supervision of Kenneth R. Neuhauser, Fort Hays State University. The work was funded by the Kansas Geological Survey and coordinated by Frank R. Wilson, Senior Geologist.

The geology was interpreted from aerial photography and from the Ellis County Soil Report and maps published by the U.S. Department of Agriculture, Soil Conservation Service, August, 1976, and from County Historical Maps, Kansas County, Kansas, U.S. Geological Survey Circular 35, April 1949. Some areas were checked in the field under the present study.

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 1:50,000. In some places the contours from the DLG may be more generalized than the base maps used in preparation of general contour patterns. Outcrop patterns on the map will typically reflect topographic variation more accurately than the generalized contour lines. Repeated 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.

This map was produced by computer-aided cartography using the CADMAP (Computer Aided 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 its electronic database.

**Suggested reference to this map:**  
Neuhauser, K. R., and Pool, J. C., 1988, revised and reprinted 1996, Geologic Map, Ellis County, Kansas: Kansas Geological Survey, Map Series M-19, scale 1:50,000.