

GEOLOGIC MAP OF CHAUTAUQUA COUNTY, KANSAS

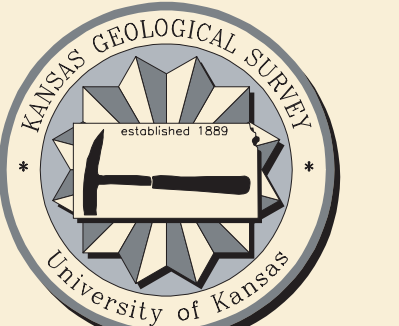
1995

Geology mapped by Daniel F. Merriam

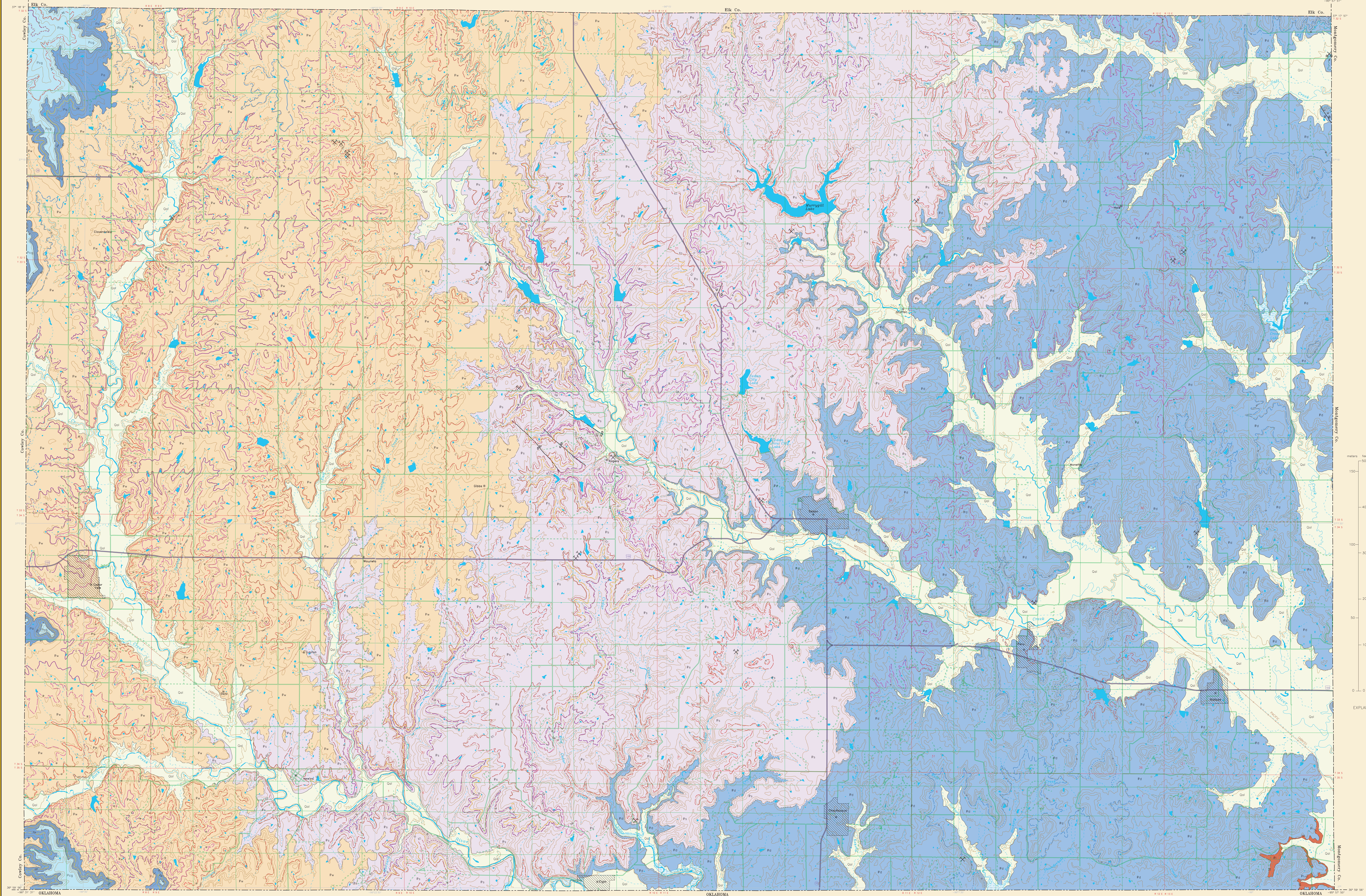
KANSAS GEOLOGICAL SURVEY

THE UNIVERSITY OF KANSAS

MAP M-43



Computer compilation and cartography by
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Period	Formation	Composite Stratigraphic Section
PERMIAN QUATERNARY	Allium (Esridge Sh.)	Qal
	Genoa Ls.	Qg
	Red Eagle Ls.	Peg
	Johnson Sh.	Pj
	Foraker Ls.	Pf
PERMIAN	Adair	Po
	Wagonwheel	Pw
PENNSYLVANIAN	Root - Wood Sliding	R
	Dover Ls Mbr	D
	Emporia Ls Mbr	E
	Auburn Ls	A
	Bern Ls	B
	Scranton Sh.	S
	Howard Ls.	H
	Severy Sh.	Se
	Topeka Ls.	To
	Deer Creek Ls.	DC
VIRGINIAN	Ervine Creek Ls Mbr	EC
	Ozarkie Ls Mbr	OZ
	Avoca Ls Mbr	AV
	Bell Ls Mbr	B
	Spring Branch Ls Mbr	SB
	Kerford Ls Mbr	K
	Plattsmouth Ls Mbr	P
	Oread Ls	O
	Toronto Ls Mbr	T
	Amazonia Ls Mbr	A
DOUGLASS	Haskell Ls Mbr	H
	Westphalia Ls Mbr	W
	"Iatan" Ls Mbr	I
Stranger	S	
Stanton Ls	St	
South Bend Ls Mbr	SB	

Geologic unit boundaries

- 1 - Observed geologic contact
- 2 - Inferred geologic contact
- 3 - Generalized geologic contact
- 4 - Land subject to modification
- 5 - Elevation contours (10-meter intervals)
- 6 - Elevation contours (50-meter intervals)

Hydrology and topography

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

Resource development

- 1 - Quarry
- 2 - Gravel pit
- 3 - Sand pit
- 4 - Oil well
- 5 - Gas well
- 6 - Water well
- 7 - Salt well
- 8 - Coal well
- 9 - Geothermal well
- 10 - Geothermal well
- 11 - Geothermal well
- 12 - Geothermal well
- 13 - Geothermal well
- 14 - Geothermal well
- 15 - Geothermal well
- 16 - Geothermal well
- 17 - Geothermal well
- 18 - Geothermal well
- 19 - Geothermal well
- 20 - Geothermal well
- 21 - Geothermal well
- 22 - Geothermal well
- 23 - Geothermal well
- 24 - Geothermal well

Index to Public Land Survey

INDEX TO 1:24,000-SCALE MAPS

1 Grand Survey-1962 (79 99)	13 Cedar Vale West-1962 (79 99)
2 Greens-1962 (79 99)	14 Cedar Vale East-1962 (79 99)
3 Miles-1962 (79 99)	15 Cedar-1962 (79 99)
4 Ek Falls-1962 (79 99)	16 Chautauque-1962 (79 99)
5 Op Water-1962 (79 99)	17 Fair-1962 (79 99)
6 Ek City-1962	18 Conroy-1961 (84 99)
7 Baker-1962 (79 99)	19 Frank-1962 (79 99)
8 Coward-1962 (79 99)	20 Parsons-1961 (84 99)
9 Sp. No. 1962 (79 99)	21 Parsons-1962 (79 99)
10 Sp. No. 1962 (79 99)	22 Parsons-1962 (79 99)
11 Sp. No. 1962 (79 99)	23 Parsons-1962 (79 99)
12 Casey-1962	24 Casey-1962 (82 99)

EXPLANATION

Sandstone or sand	Shale or claystone
Siltstone	Coal or lignite locally sub-irregular
Unconsolidated silt and sandstone	Limestone

CONVERSION TABLE

Feet	Meters
1	0.3048
10	3.048
100	30.48
1000	304.8
5280	1609.3

LOCATION DIAGRAM

Elevation contours are presented for general reference. They are taken from USGS Digital Line Graph (DLG) files compiled from base maps of a scale of 1:100,000. In some places the contours from the DLGs 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 GMAP (Geologic 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, inaccuracies and disclaims any responsibility or liability for interpretations made from the map or decisions based thereon.

Suggested reference to this map:
Merriam, D. F., 1995, Geologic Map of Chautauqua County, Kansas.