

Geology mapped by
James S. Aber

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Computer compilation and cartography
by
Jargina A. Ross
Siew Phing Lee
Elizabeth C. Craune

Composite Stratigraphic Section	Member	Formation	Group	Series
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EXPLANATION	
	Limestone
	Cherty limestone
	Shaly limestone
	Dolomitic limestone
	Gypsum or anhydrite
	

Geologic unit boundaries

- 1 = Observed geologic contact
- 2 = Inferred geologic contact
- 3 = Concealed geologic contact

Hydrology and topography

- 1 = Intermittent stream
- 2 = Perennial stream
- 3 = Areal hydrology
- 4 = Topography

Geologic structure

- 1 - Fault
- 2 - Sealing
- 3 - Seismic

Index reference features

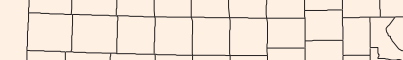
- 1 - 1:24,000 map edge
- 2 - Line of cross sections

Diagram of a township showing numbering of sections.

1	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	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1	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	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61																																							

FIG. 1. *Unpublished*

LOCATION DIAGRAM



Convergence (GN) and 1981
magnetic declination (MN)
at center of map

Lambert Conformal Conic Projection
with standard parallels at 33° and 45°

Scale 1:50,000

Kilometers

Miles

	1	0.5048	0.6563	0.000018
32808	1	0.031	0.05642	
3280.8	1000	1	0.8214	
		1.6094	1	

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 0.6214
 To convert miles to kilometers multiply by 1.6094

Elevation contours are presented for general reference. They are based from USGS Digital Line-Data (DLG) files converted from base maps at a scale of 1:250,000. There are some places the original 1980, the SRTM data, and 1000 contour interval 1980. The base

The geology was mapped using the U.S.G.S. 7.5-min. topographic 1:24,000 scale maps, black and white aerial photography, and field survey. Published materials consulted include Kansas Geological Survey Map M-1 (1987), 1944, *Geologic Map of Kansas*, scale 1:550,000; U.S. Department of Agriculture, Soil Conservation Service (Dorner et al., 1987), 1987, *Soil Survey of Ford County, Kansas*.

The map was produced by computer-aided cartography using the GMAP (Geologic Map Interpretation, 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 omissions and disclaims any responsibility or liability for interpretations made from the map or decisions based thereon.

PROMENIOS

References

Aber, J.S. 1991. Surficial geology of Butler County, Kansas. Kansas Geological Survey, Open-File Report 91-45, 31 p.

Aber, J.S. 1992. Chert gravel, drainage development, and sinkholes in the Walnut Creek, south-central Kansas. Kansas Academy Science, Transactions 85:109-121.

Suggested reference to this map

Aber, J. S., 1994. Geologic Map, Butler County, Kansas: Kansas Geological Survey, Map M-30

Cost: U