## PRELIMINARY SURFICIAL GEOLOGY OF THE SEDGWICK **COUNTY PORTION OF THE CHENEY SE QUADRANGLE, KANSAS**



2022





**U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY** 



CHENEY SE QUADRANGLE KANSAS **7.5-MINUTE SERIES** 



## **Open-File Report 2022-11**

Funded in part by the **USGS** National Cooperative Geologic Mapping Program





ADJOINING QUADRANGLES

## used as references in the digital mapping. USGS 7.5-min 1:24,000scale topographic maps, USDA Natural Resources Conservation Service (NRCS) soil surveys, and other geologic maps and bulletins were used to supplement the mapping. Roads and highways are shown on the base map as represented by data from the Kansas Department of Transportation (KDOT), U.S. Census Bureau, and other sources. U.S. Department of Agriculture - Farm Services Agency (USDA-FSA) National Agriculture Imagery Program (NAIP) imagery also was used

the State of Kansas LiDAR Database. The DEM images, in ERDAS IMAGINE format, were mosaicked into a single output DEM, downsampled to 2-meter resolution, and reprojected to decimal degrees. The output DEM was then converted to a hillshade, a multidirectional shaded-relief image using angles of illumination from  $0^{\circ}$ , 225°, 270°, and 315° azimuths, each  $45^{\circ}$  above the horizon, with a 4x vertical exaggeration.

This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program, award number G20AC00241 (FY2020).

This map was produced using the ArcGIS system developed by Esri (Environmental Systems Research Institute, Inc.).

This map is a preliminary product and has had less scientific and cartographic review than the Kansas Geological Survey's M-series geologic maps. The KGS 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 decisions based thereon.

## SUGGESTED REFERENCE TO THE MAP

entering private lands.

Imagery. Roads....

Names.

Hydrography..

Contours....

Boundaries.

Wetlands..

North American Datum of 1983 (NAD83)

Public Land Survey System..

..FWS

World Geodetic System of 1984 (WGS84). Projection and

This map is not a legal document. Boundaries may be

1 000-meter grid:Universal Transverse Mercator, Zone 14S

reservations may not be shown. Obtain permission before

Andrzejewski, K. A., 2022, Preliminary surficial geology of the Sedgwick County portion of the Cheney SE quadrangle, Kansas: Kansas Geological Survey, Open-File Report 2022-11, scale 1:24,000, unpublished.

National

National

Wetlands

rid Zone Desi 14S



State Route CHENEY SE, KS 2022

Last updated 6/22/22