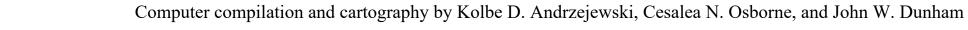
PRELIMINARY SURFICIAL GEOLOGY OF THE MAYFIELD QUADRANGLE, SUMNER COUNTY, KANSAS



2022





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



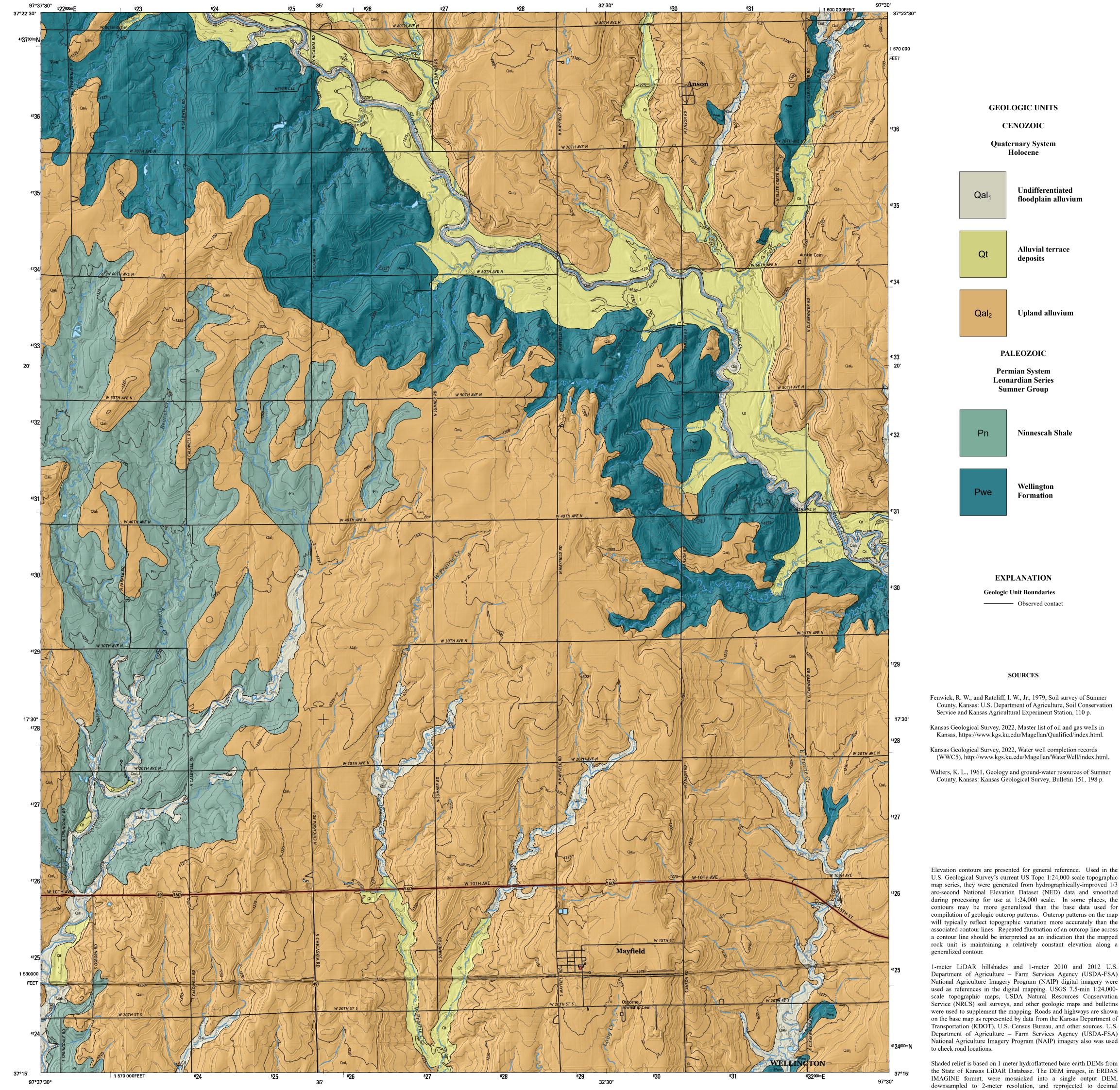


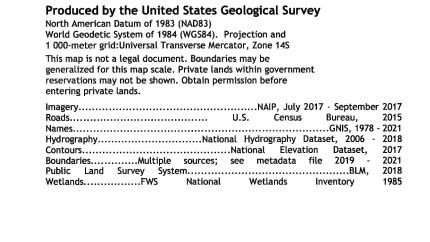
MAYFIELD QUADRANGLE

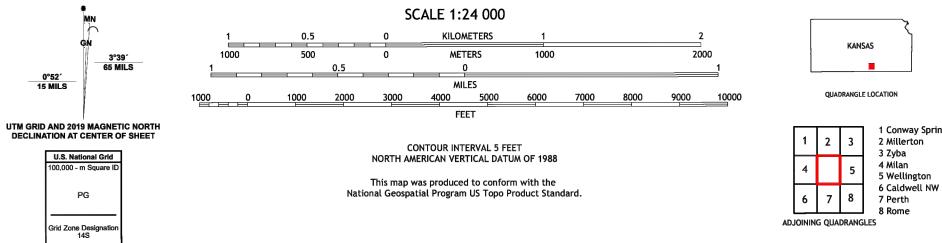
KANSAS - SUMNER COUNTY

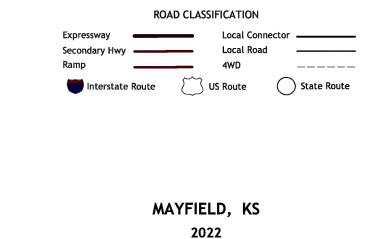
7.5-MINUTE SERIES

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









1 Conway Springs

2 Millerton

3 Zyba

4 Milan

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

Shaded relief is based on 1-meter hydroflattened bare-earth DEMs from 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°, 225°, 270°, and 315° azimuths, each 45° 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

Layzell, A. L., 2022, Preliminary surficial geology of the Mayfield quadrangle, Sumner County, Kansas: Kansas Geological Survey, Open-File Report 2022-13, scale 1:24,000, unpublished.