Lithology Key:
- Dolomite
- Limestone
- Fine-grained sandstone
- Siltstone
- Shale
- Conglomerate
- Other

STRATIGRAPHIC COLUMN:
- Cedar Rock Formation
- Limestone City Formation
- Coralville Formation
- Coralville Valley Formation

LEGEND:
- Bedrock
- Non-geologic
- Water bodies
- Roads

GEOLOGIC CROSS-SECTION A-A':
- Cedar River
- Little Cedar River
- Wapsipinicon River

GEOLOGIC CROSS-SECTION B-B':
- Cedar River

Location Map:
- Mitchell County
- surrounding areas

Introduction to the Bedrock Geologic Map of Mitchell County:

Mitchell County is located in the western part of Iowa. The bedrock geology of the area is dominated by carbonate rocks, with the most prominent formations being the Cedar Valley and Wapsipinicon Groups. These formations consist of a variety of depositional environments, including fluvial, estuarine, and marine settings, which have resulted in the formation of diverse lithologies and depositional structures. The stratigraphic column illustrates the thickness and distribution of these formations across the county, highlighting the variations in lithology and sedimentary facies. The geologic cross-sections provide a detailed view of the subsurface geology, showing the relationships between different units and the potential for hydrogeological features such as those related to bedrock valleys and water well records. This information is crucial for understanding the geotechnical and hydrogeological properties of the area, which are essential for development and infrastructure planning.