

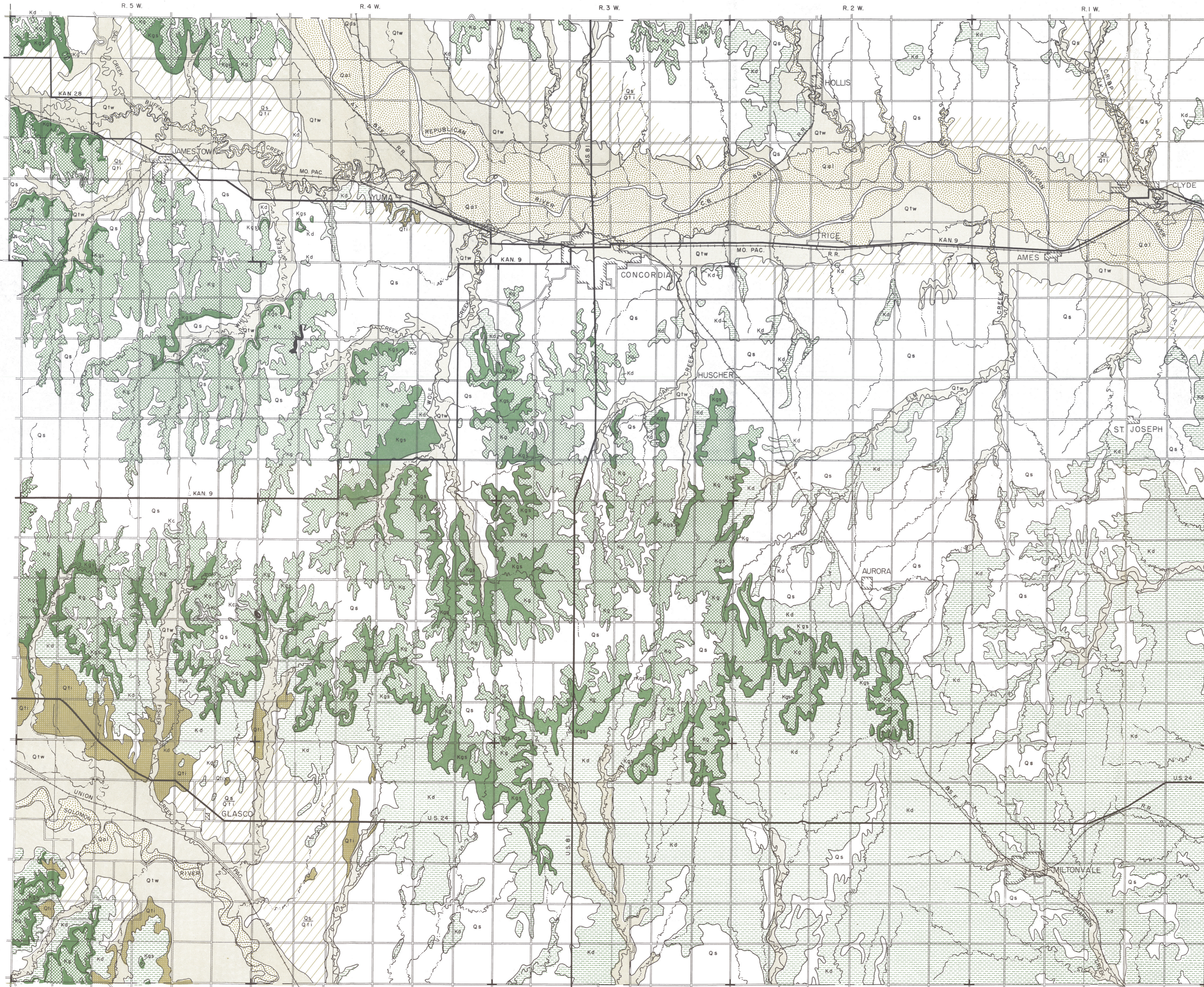
AREAL GEOLOGY OF CLOUD COUNTY, KANSAS

State Geological Survey
of Kansas

by Charles K. Bayne and Kenneth L. Walters

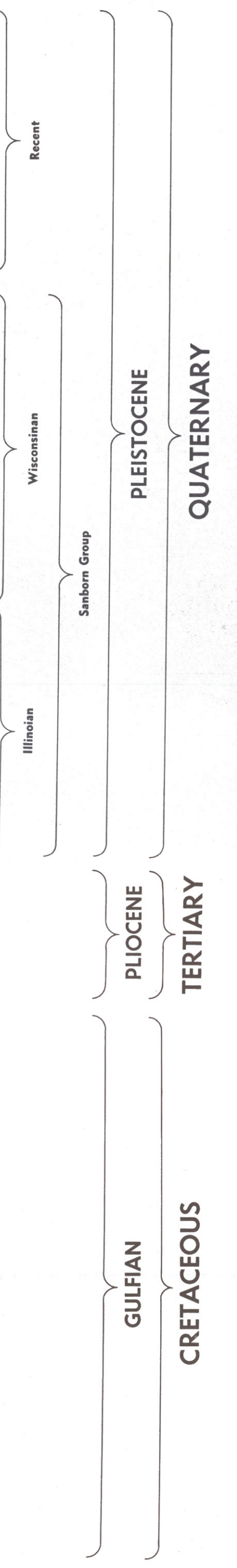
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Plate 1



EXPLANATION

- Dune sand**
Medium and fine sand and silt. Yields small supplies of water to a few wells.
- Alluvium**
Sand, gravel, and silt. Yields large supplies of water of good quality along major streams.
- Terrace deposits**
Sand, gravel, and silt. Yields large supplies of water of good quality along major streams.
- Eolian silts**
Fine wind-deposited silt. Lies above water table and yields no water to wells.
- Eolian silts overlying Illinoian terrace deposits**
Wind-deposited silts over water-laid silt, sand, and gravel. Yields small to moderate supplies of water to wells.
- Loveland and Crete Formations**
Sand and gravel and locally silt. Yields moderate supplies of water to wells locally but is generally above water table.
- Ogallala Formation**
Thin calciche or pisolitic limestone containing scattered sand grains. Lies above water table and yields no water to wells.
- Carlisle Shale**
Calcareous shale. Lies above water table and yields no water to wells.
- Greenhorn Limestone**
Thin interbedded limestones and shales. Yields small quantities of hard water to wells.
- Graneros Shale**
Dark fissile shale. Yields no water to wells.
- Dakota Formation**
Clay, sandstone, lignite, and siltstone. Yields moderate to large quantities of water to wells.



Base compiled from map prepared by the Soil Conservation Service

Drainage from map prepared by U. S. Dept. of Agriculture