



EXPLANATION



Quartz sand. Sand dunes and various water table and do not supply water directly to wells, but are in partial contact areas for ground water recharge.



General sand, and silt. Locally yield moderate supplies of water having a wide range in quality.



Stratified and massive silt and sand. Locally yields moderate supplies of hard water, but in some spots it yields ground water recharge.



Sand, gravel, silt, and calcareous soil. Yields large supplies of water of good quality to wells. The flow ranges from about 20 to more than 100 feet. Supplies irrigation wells and flowing wells in part of the county.



Sand, gravel, silt, clay, peat, and calcite. Yields large supplies of water of good quality to wells. The flow ranges from about 20 to more than 100 feet. Supplies irrigation wells and flowing wells in part of the county.



Sand, gravel, silt, and calcite. Yields large supplies of water of good quality to wells. The flow ranges from about 20 to more than 100 feet. Supplies irrigation wells and flowing wells in part of the county. It shows the water table.



Shale, limestone, and sandstone. A potential source of water of unknown quality in the southwestern part of the county.



Red and gray shales, shales and fine-grained sandstone. Yield small supplies of hard water to wells in the southwestern part of the county.

- Contour interval 10 feet
- 2600- Water-table contours based on instrumental levels
 - 2300- Water-table contours in areas of dissected topography, based on instrumental levels.
 - 2280 Well location. Number refers to altitude of water level.
 - Federal or State road
 - County or Township road
 - Section line (no road)
 - Road under construction
 - County line (no road)
 - Township line (no road)

RECENT
QUATERNARY
PLEISTOCENE
PLIOCENE
MIOCENE (?)
AND PLIOCENE
TERTIARY
PERMIAN

Base modified from map prepared by Kansas State Highway Department



Drivage from aerial photographs of the U. S. Dept. of Agriculture