



EXPLANATION

Qu
Undifferentiated deposits
Eolian, fluvial, and colluvial deposits of mostly silt, which may overlie sand and some gravel. May yield small to moderate quantities of water to wells.

Qv
Valley-fill deposits
Fluvial and eolian deposits of gravel, sand, silt, and clay. May yield moderate to large quantities of water to wells in Walnut Creek valley and small to moderate quantities of water to wells in other stream valleys.

Qt
Terrace deposits
Fluvial and eolian deposits of gravel, sand, silt, and clay in terrace position to stream courses. May yield small to moderate quantities of water to wells.

To
Ogallala Formation
Fluvial deposits of gravel, sand, silt, and clay, soil caliche (referred to as "algal limestone") and quartzitic-appearing green conglomerate with an opaline matrix. Occurs on divide areas. Not known to yield water to wells.

Kn
Fort Hays Limestone Member of the Niobrara Chalk
Marine deposits of massive cherty limestone. Only lowest part present. Yields no water to wells.

Kc
Carlile Shale
Marine deposits of cherty limestone, noncalcareous to cherty shale containing large concretions and thin bentonite beds, and friable silty sandstone. Not known to yield water to wells.

Kgh
Greenhorn Limestone
Marine deposits of alternating cherty limestone and cherty shale containing thin bentonite beds. Not known to yield water to wells.

— — — — —
Contact

A — A'
Trace of geologic section
Sections shown on figure 6

— 1940 — — — — —
Water-table contour
Shows altitude of water-table, 1960. Dashed where approximately located. Contour interval 10 feet. Datum is mean sea level.

○ Domestic or stock well
● Public supply well
○ Irrigation well
● Test hole
● Observation well

34
56
Upper number is depth to water and lower number is depth to bedrock, if known, or depth of well, in feet below land surface

10°
True North
Magnetic North

APPROXIMATE MEAN DECLINATION, 1972

Scale 1: 84 480

1 1/2 0 1 2 3 MILES

Pleistocene

Pliocene

Upper Cretaceous

QUATERNARY

TERTIARY

CRETACEOUS

Base from maps by U.S. Soil Conservation Service (1947) and State Highway Commission of Kansas (1968)

Prepared by the State Geological Survey of Kansas and the United States Geological Survey, with the cooperation of the Division of Environmental Health of the Kansas State Department of Health and the Division of Water Resources of the Kansas State Board of Agriculture

Geohydrology by Jesse M. McNellis, 1960