



EXPLANATION



Dune sand
Quartz sand. Sand dunes are above water table and do not supply water directly to wells, but are important catchment areas for ground-water recharge.



Terrace deposits and alluvium
Gravel, sand, and silt. Locally yield moderate supplies of water having a wide range in quality.



Kingsdown silt
Stratified and massive silt and sand. Locally yields moderate supplies of hard water, but in some upland areas it retards ground-water recharge.



Meade formation
Sand, gravel, silt, clay, and volcanic ash. Yields large supplies of water of good quality to wells that range in depth from about 50 to more than 200 feet. Supplies irrigation wells and flowing wells in part of the county.



Ogallala formation (Raxroad member)
Sand, gravel, silt, clay, peat, and caliche. Yields large supplies of water of good quality west of Crooked Creek fault. Supplies irrigation wells and flowing wells in part of the county.



Ogallala formation (undifferentiated)
Sand, gravel, silt, and caliche. Yields large supplies of water of good quality to wells that range in depth from about 50 to more than 250 feet in part of the county, but in some places in the southeastern part of the county it is above the water table.



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



Permian rocks (undifferentiated)
Red and gray siltstone, shale and fine-grained sandstone. Yield small supplies of hard water to wells in the southeastern 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.

2252 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

PLEISTOCENE

PLIOCENE

MIOCENE (?)
AND PIOCENE

QUATERNARY

TERTIARY

PERMIAN