

AREAL GEOLOGY OF SHERIDAN COUNTY, KANSAS

With Water-Table Contours

By Charles K. Bayne

1952

Bulletin 116

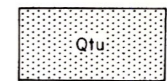
Plate 1

State Geological Survey
of Kansas

EXPLANATION



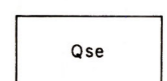
Alluvium
Unconsolidated sand, gravel, and silt along the major stream valleys. Yields moderate supplies of water to wells.



Undifferentiated valley deposits
Silt, clay, sand, and gravel. Includes alluvium, terrace and slope wash materials along the major streams and tributaries where the deposits are not mappable as separate units. Yields moderate to small amounts of water to wells.



Sanborn formation
Wisconsinan terrace deposits
Sand, gravel, silt, and clay. Forms low terrace along major stream valleys. Yields moderate to large supplies of water to wells.



Sanborn formation
Eolian deposits
Tan to reddish-brown silt. Lies above water table and yields no water to wells. Includes Signall, Peorian and Loveland members.



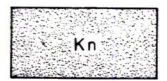
Sanborn formation
Crete sand and gravel member
Sand and gravel with minor amounts of silt and clay in an intermediate terrace position along the major stream valleys. Yields moderate supplies of water to wells where below water table.



Meade formation
Silt, sand, and gravel and the Pearlette volcanic ash member. Only small deposits exposed. Probably more extensive deposits are covered by silts of the Sanborn formation. Known deposits lie above the water table and yield no water to wells.



Ogallala formation
Sand, gravel, clay, and silt; may be consolidated or unconsolidated. Cemented principally with calcium carbonate, but locally cemented with silicates. Yields large supplies of water to wells.



Niobrara formation
Chalky shale and chalk. Yields no water to wells in Sheridan County.

PLEISTOCENE

PLIOCENE

GULFIAN

QUATERNARY

TERTIARY

CRETACEOUS

Well location. Number refers to altitude of water level

Water table contours based on instrumental levels

Contour interval 10 feet

Federal or State Highway

Graded road

Ungraded road

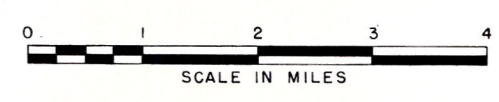
Railroad

County line (no road)

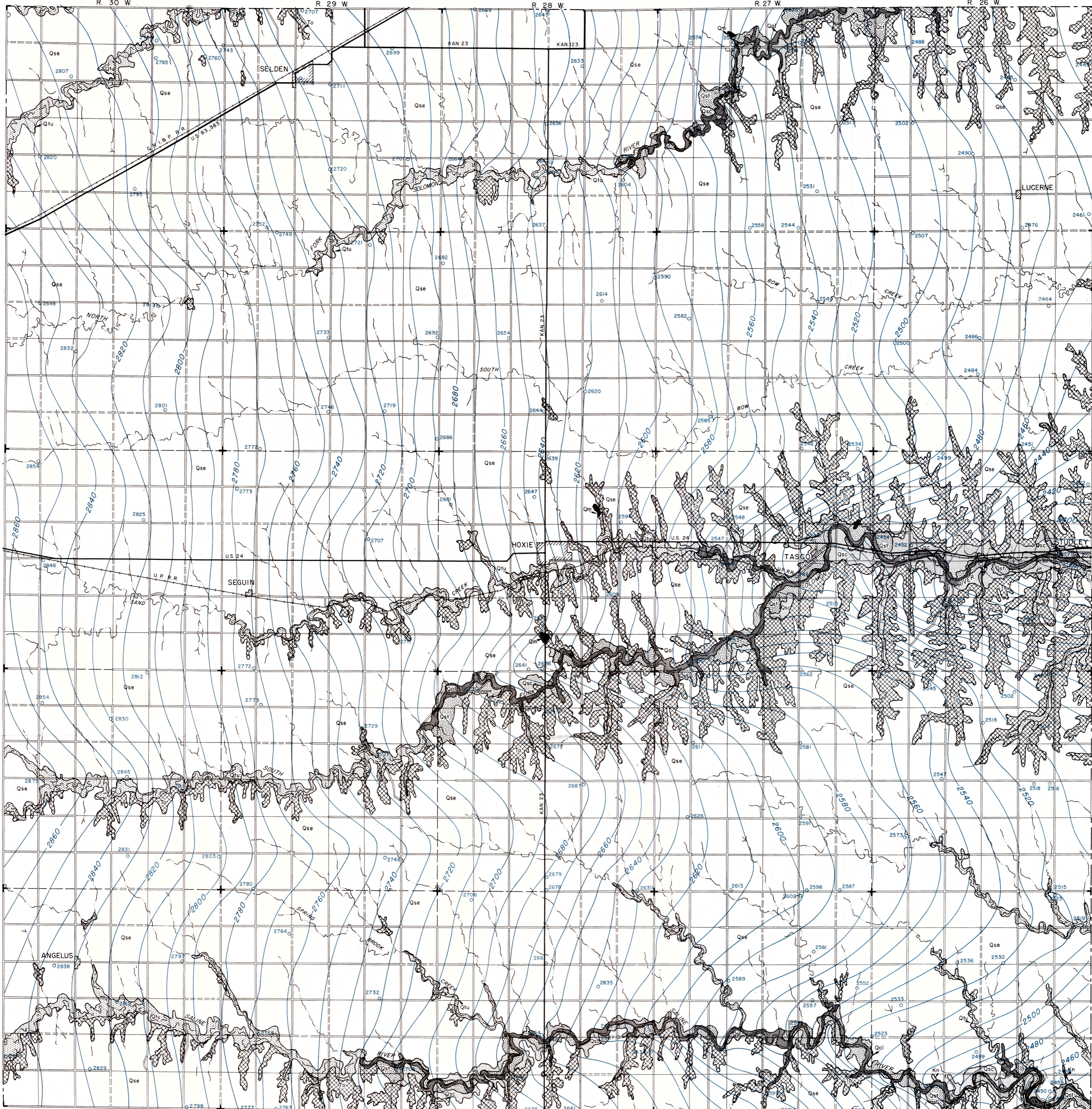
Township line (no road)

Section line (no road)

Intermittent stream



SCALE IN MILES



Base compiled from maps prepared by the Soil Conservation Service

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