



BUREAU OF ECONOMIC GEOLOGY
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in cooperation with the STATEMAP component of the
National Cooperative Geologic Mapping Program,
administered by the U.S. Geological Survey

HYDROLOGIC MAP OF SEYMOUR AQUIFER DEPOSITS, BERNON, TEXAS, 30 X 60 MINUTE QUADRANGLE

Open-File Geologic Map

QUATERNARY

cene

ucah Group (after Caran, 1990; Caran and Baumgardner, 1990)

- 1 Stream alluvium. Sand, silt, clay, gravel.
 - c Terrace deposits. Sand, silt, clay, gravel.
 - s1 Windblown deposits. Sand and silt. Gently rolling and hilly topography. Several feet to about 20 ft thick.
 - s2 Windblown deposits of mostly vegetated, stabilized to partly stabilized dunes. Sand and silt. Hummocky to hilly topography. Thickness mostly between 10 and 30 ft. Thickness may exceed 30 ft locally.
 - s3 Windblown deposits of dunes. Sand and silt. Partly vegetated. Includes some active dunes. Thickness mostly between 10 and 30 ft. Thickness may exceed 30 ft locally.

Upper Pleistocene (approximate)

cab Group (after Caran, 1990; Caran and Baumgardner, 1990)

- 1 Thick Paducah deposits.** Lower interval of gravel, sand, and minor silt and clay. Upper interval of sand, silt, clay, and minor gravel. Commonly includes undivided thin surficial windblown sand and silt. Thickness mostly between 25 and 75 ft. Thickness exceeds 100 ft in some areas. Lower gravel- and sand-rich interval between 25 and 65 ft thick in some areas.
 - 2 Thin Paducah deposits.** Sand, silt, clay, and gravel. Gravel-rich sand, silt, and clay most common in lower part. Thickness between a few feet to about 25 ft. Commonly includes undivided thin, surficial, windblown sand and silt.
 - 3 Paducah deposits of unknown thickness.** Sand, silt, clay, and gravel. Commonly includes undivided thin, surficial, windblown sand and silt.

Holocene to Pleistocene (approximate)

- Qp Undivided slope-wash alluvium and thin Paducah deposits along topographic escarpment marking edge of inset drainage valley.** Sand, silt, clay, and gravel.

PERMIAN

- Undivided Permian deposits.** Sandstone, siltstone, mudstone, conglomerate, and gypsum.

**Edward W. Collins
2003
scale 1:100,000**

This map is based on field and aerial-photograph interpretations, of previous work cited in the accompanying report, and interpretations of surface data from more than 550 wells and test holes. The subsurface data were obtained through Texas Water Development Board well and drilling records and hydrogeologic reports cited in the accompanying report. Work for this map was supported partly by the STATEMAP component of the National Cooperative Geographic Mapping Program, administered by the U.S. Geological Survey. The views and conclusions contained in this map are those of the author and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government. The author disclaims any responsibility or liability for interpretations from this map or digital data or decisions based thereon.