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U.S. Department of the Interior
U.S. Geological Survey

Scientific Investigations Map 3333
Pamphlet accompanies map

Hydrostratigraphic map of the Anhalt, Fischer, and Spring Branch 7.5-Minute Quadrangles, Blanco, Comal, and Kendall Counties, Texas



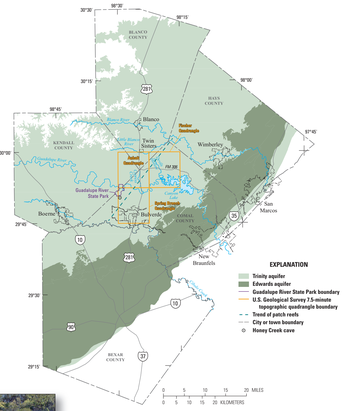


Figure 1. Location of the study area.

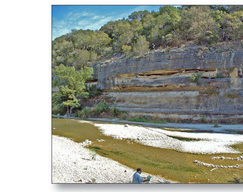


Figure 2. Outcrop of the Cow Creek Limestone Member along the left bank of the Guadalupe River in Guadalupe River State Park, Comal County, Texas. Photograph taken September 3, 2011, by Robert Morris.



Figure 3. Unidentified coral mold from an outcrop of the lower Glen Rose Limestone (lower 50 ft). The outcrop is located in a road cut several hundred feet west of the junction of Farm to Market Road 306 and Devils Hollow, Comal County, Texas. Index finger used for scale. Photograph taken Sept. 9, 2014, by Allan Clark.



Figure 4. Unidentified species of fossil coral from an outcrop of the lower Glen Rose Limestone (lower 50 ft). The outcrop is located at the confluence of Cypress Creek and Guadalupe River, Comal County, Texas. Photograph taken January 27, 2014, by Allan Clark.



Figure 6. Sauropod tracks in the Blanco River channel approximately 2.9 miles west of the town of Blanco near the stratotype location for the *Corbula* marker bed. Photograph taken August 19, 2014, by Allan Clark.



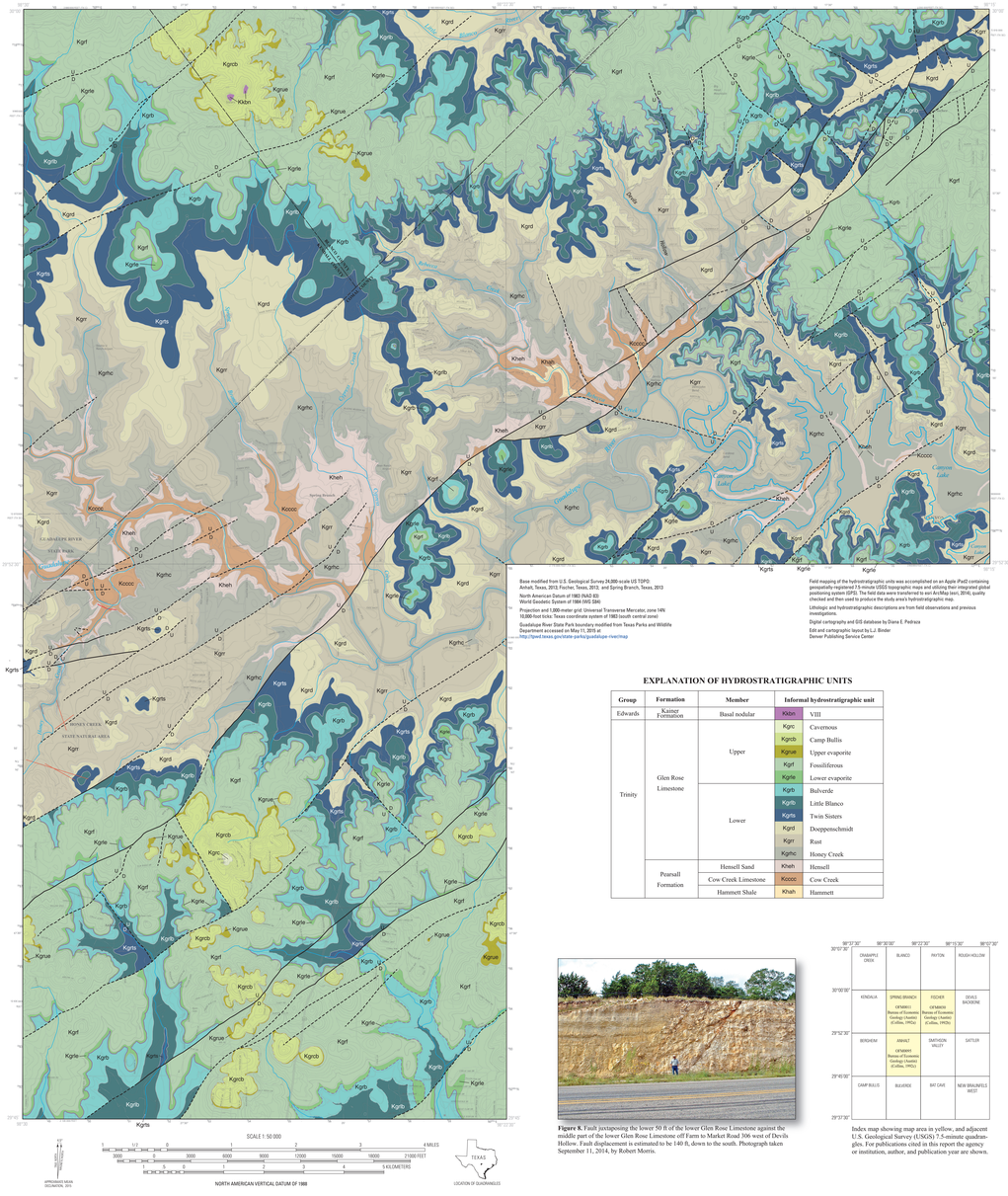
Figure 5. The marker bed of *Corbula* sp. in an outcrop 2.06 miles west of the Blanco River and 0.35 mile east of the Comal-Hays County line. Tape increments in tenths of a foot. Photograph taken April 17, 2013, by Robert Morris.

CONVERSION FACTORS

Multiply	By	To obtain
	Length	
inch (in.)	2.54	centimeter (cm)
inch (in.)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
	Area	
square mile (mi²)	2.590	square kilometer (km²)



Figure 7. Boxwork porosity in the upper evaporite unit, approximately 120 ft above the *Corbula* bed and 0.8 mile south of the Blanco River and 3.22 miles west of Highway 281. Photograph taken August 15, 2014, by Robert Morris.


Base modified from U.S. Geological Survey 24,000-scale US TOPO:
Anhalt, Texas, 2013; Fischer, Texas, 2013; and Spring Branch, Texas, 2013
North American Datum of 1983 (NAD 83)
World Geodetic System of 1984 (WGS 84)
Projection and 1,000-meter grid: Universal Transverse Mercator, zone 14N
10,000-foot ticks: Texas coordinate system of 1983 (south central zone)
Guadalupe River State Park boundary modified from Texas Parks and Wildlife Department accessed on May 11, 2015 at http://tpwd.texas.gov/state-parks/guadalupe-river/map
Field mapping of the hydrostratigraphic units was accomplished on an Apple iPad2 containing geospatially-registered 7.5-minute USGS topographic maps and utilizing their integrated global positioning system (GPS). The field data were transferred to esri ArcMap (esri, 2014), quality checked and then used to produce the study area's hydrostratigraphic map.
Lithologic and hydrostratigraphic descriptions are from field observations and previous investigations.
Digital cartography and GIS database by Diana E. Pedraza
Edit and cartographic layout by L.J. Binder
Denver Publishing Service Center
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Cypress Creek
Guadalupe River
Spring Branch
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