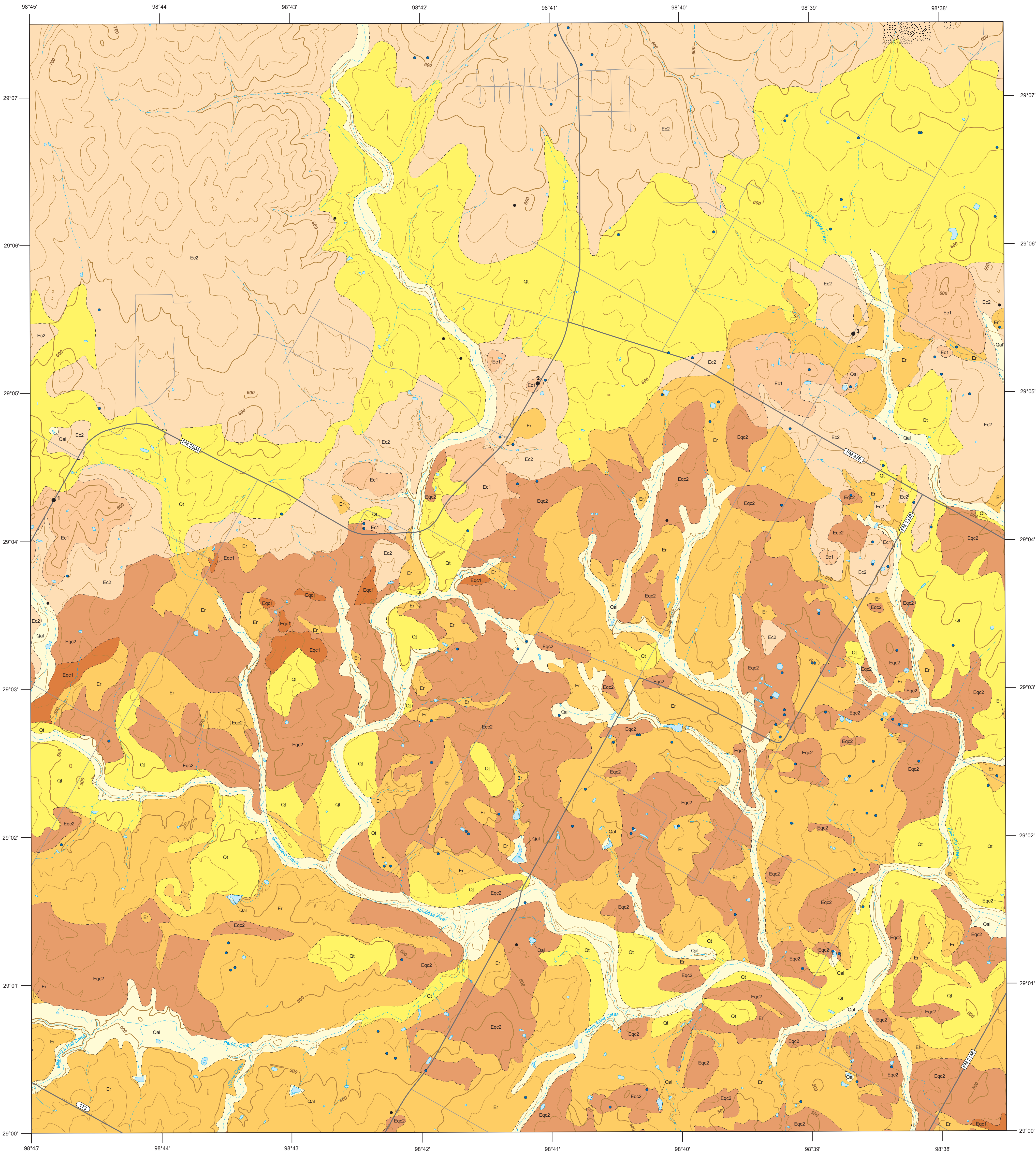




DESCRIPTION OF GEOLOGIC MAP UNITS

This map shows the distribution of geologic units south of San Antonio, south of Interstate 35, west of State Highway 16, in the Rossville Quadrangle. Geologic units were mapped, and structural elements were measured in the field; where bedrock units are covered by surficial units and vegetation, or access is limited, units were interpreted using soil data, well-drilling records, previous mapping, and surveys.

BEDROCK UNITS

SEDIMENTARY UNITS

QUATERNARY	Qal	Qal—Alluvium. River and stream floodplain deposits, silty sand, mud, channel gravel, rounded pebbles, and cobbles.
Quaternary of Pleistocene or Holocene	Qt	Qt—Fluviatile terrace deposits. Gravel, silt, sand, and clay; increasing amounts of sand, silt, and clay in the Carrizo Sandstone unit. These deposits are mostly above flood level along entrenched streams. Fluviatile characteristics, such as point bars, oxbows, and abandoned-channel segments are well preserved.
TERTIARY	Ec1, Ec2	Ec1, Ec2—Queen City Sandstone. Quartz and clay; fine- to medium-grained sandstone, well sorted, massive, occasionally indurated, light- to brownish-gray, locally carbonaceous, occasionally cross-bedded; weathers mottled red and white, with ironstone concretions and hematitic cement common; thickness varies between 100 and 400 ft. Exposed outcrop and paralic cover 40–80 inches thick, Ec1; residual cover deeper than 80 inches, Ec2.
Eocene	Er	Er—Reklaw Formation. Fine- to medium-grained sandstone, siltstone, and clay; abundant hematitic concretions, glauconitic sands and silts; friable, highly indurated, cross-bedded, with occasional mollusk and pelecypod fossils; frequent clay, siltstone, lignitic beds; thickness ranges between 50 and 80 ft.
	Ec1, Ec2	Ec1, Ec2—Carrizo Sandstone. Sandstone, medium to coarse grained, typically fining toward the top, poorly sorted, friable to locally indurated, nonclastic, thick bedded, light-yellow to orange and brown, weathers yellowish-brown, locally iron-oxide banded, surface thickly forested to the south and west, averaging 1500–2100 ft. Exposed outcrop and paralic residual cover 40–80 inches thick, Ec1; residual cover deeper than 80 inches, Ec2.

MAP SYMBOLS

(All map symbols may not appear on this sheet)

BODY OF WATER	QUARRY / SAND-PIT AREA
RIVER	OIL or GAS WELL LOCATION
INTERMITTENT STREAM / CREEK	WATER WELL LOCATION
HIGHWAY	SAMPLE LOCALITY — Location of sample taken for analytical work
ROAD / STREET	

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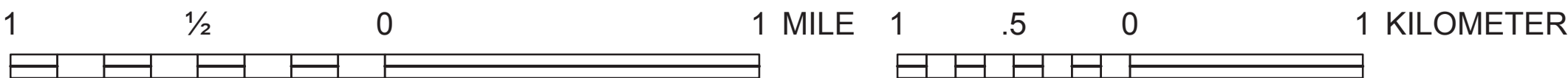
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41° 2' 45" N
APPROXIMATE MEAN
DECLINATION, 2019



SCALE 1:24,000

UNIVERSAL TRANSVERSE MERCATOR PROJECTION, ZONE 14N, NAD 83
CONTOUR INTERVAL IS 20 FT
DATUM IS MEAN SEA LEVEL

Topographic base map from:

U. S. Geological Survey
(1967 — field checked 1968)

Projection:

Universal Transverse Mercator Zone 14N

Datum:

North American Datum of 1983

Bedrock geologic field investigations by:

Brown et al. (1974)
Waechter and Barnes (1977)
Elliott, (2018, 2013a, 2013b)

GEOLOGIC MAP OF THE ROSSVILLE QUADRANGLE, TEXAS

Brent A. Elliott

2019