

THE UNIVERSITY OF TEXAS AT AUSTIN
BUREAU OF ECONOMIC GEOLOGY

TO ACCOMPANY MAP—AUSTIN SHEET—
GEOLOGIC ATLAS OF TEXAS

GEOLOGIC ATLAS OF TEXAS AUSTIN SHEET

FRANCIS LUTHER WHITNEY Memorial Edition

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1974

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Eocene

Ecm

Cook Mountain Formation

Mostly clay, in part sandy, where sandy uniformly glauconitic, small concretions common, brownish gray to brown, weathers brownish gray to yellowish gray; marine megafossils and microfossils abundant; two limestone lentils in Brazos River valley (Little Brazos Limestone Lentil and Moseley Limestone) not separately mapped; thickness 200-300 feet

Es

Sparta Sand

Quartz sand, very fine to fine grained, well sorted, micaceous, silty clay partings, locally carbonaceous, laminated, very pale orange to grayish brown, weathers yellowish brown to reddish brown; thickness 150-200 feet

Ew

Weches Formation

Greensand, sand, and clay; greensand mostly glauconite, in part marly, quartz sand common, pale green to yellowish brown; interbedded clay, silty, glauconitic, dark brown to chocolate brown; weathers light to dark reddish brown, locally forms layers of limonitic iron ore and clay ironstone concretions; marine megafossils and microfossils abundant; thickness 50± feet

Eqc

Queen City Sand

Fine-grained quartz, locally carbonaceous, light gray to yellowish orange, thin interbeds of clay, sandy, silty, glauconitic, brownish gray; a few lentils of glauconitic quartz greensand; weathers red and white mottled; characterized by low ridges heavily forested; thickness 200± feet

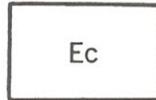
Er

Reklaw Formation

Sand and clay; upper part—clay, silty, carbonaceous, lentils of glauconitic clay ironstone, brownish black, reddish brown, weathers light brown to light gray; lower part—quartz sand and clay, sand fine to medium grained, glauconitic, grayish green, weathers moderate brown and dark yellowish orange, some clay ironstone ledges and rubble, forms deep red soil; thickness about 80 feet

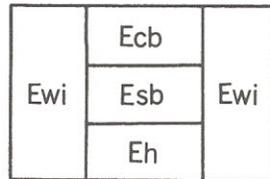
TERTIARY

Eocene



Carrizo Sand

Sandstone, fine to coarse grained, poorly sorted, friable, noncalcareous, thickly bedded, in upper part carbonaceous clay, black, and partings of silty clay, light to dark gray; weathers yellowish brown to dark reddish brown, some beds of ironstone, dark brownish red; characterized by ridges thickly forested with oak; thickness 100± feet



Wilcox Group

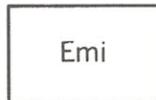
Wilcox Group undivided, Ewi; where subdivided includes from top down Calvert Bluff Formation, Ecb, Simsboro Formation, Esb, and Hooper Formation, Eh

Calvert Bluff Formation, Ecb, mostly mudstone with various amounts of sandstone, lignite, ironstone concretions, and in uppermost part locally glauconitic. Mudstone, massive to thin bedded with silt and very fine sand laminae, pale brown to yellowish brown, weathers yellowish brown. Sandstone, medium to fine grained, moderately well sorted, crossbedded, lenticular, thin beds locally burrowed, light gray to pale yellowish brown, weathers to various shades of brown. Lignite, mostly in lower part of formation, seams 1 to 20 feet thick, brownish black. Thickness up to about 1,000 feet

Simsboro Formation, Esb, mostly sand, some mudstone, clay, and mudstone conglomerate. Sand, locally indurated, ranges from moderately well-sorted fine sand to sandy mudstone-boulder conglomerate, typically medium to coarse grained, crossbedded, light gray, commonly weathers reddish brown. In uppermost part thin lenses of clay and mudstone, medium to dark gray. Forms gently rolling hills covered by dense growth of oak. Thickness up to 300 feet, pinches out south of Colorado River

Hooper Formation, Eh, mostly mudstone with various amounts of sandstone, minor lignite, ironstone concretions, and locally glauconite in lowermost part. Mudstone, medium to dark gray, weathers yellowish brown. Sandstone, in upper part—fine to medium grained, moderately well sorted, crossbedded, units 5 to 30 feet thick, light gray to pale yellowish brown; in lower part—very fine grained, well sorted and in part argillaceous, crossbedded, locally burrowed, units a few inches to 10 feet thick, yellowish brown to moderate brown. Thickness up to about 500± feet

TERTIARY



Midway Group

Wills Point Formation and Kincaid Formation not separately mapped. Wills Point Formation—clay, silty, sandy, silt and sand more abundant upward, slightly glauconitic near base, massive, poorly bedded, grades upward to mudstone and sand of Wilcox Group, light gray to dark bluish gray, topographically featureless; thickness 500± feet. Kincaid Formation—upper part (Pisgah Member), sand and clay; sand, glauconitic, poorly sorted, argillaceous, greenish gray; clay, sandy, silty, medium gray to black; lower part (Littig Member), sand and clay; sand very glauconitic, greenish black; clay, sandy, phosphatic nodules and pebbles present; weathers to yellow and yellowish brown soil; thickness 150± feet