(200) R290 no.75-477

Series	Geologic units	Thickness (feet)	Lithology	Yield	Quality of water
Holocene and Pleistocene	Alluvium and low terrace deposits	0-50	Silt, clay, sand, and gravel, varicolored, unconsolidated.	Will yield 10 gpm where saturated sands are of sufficient thick- ness. Potential source of 0.1 mgd or more in basin of Tombigbee River.  Will yield 10 gpm where saturated sands are of sufficient	Water should be of satisfactory quality for most uses. Data for Choctaw  County and adjacent areas indicate that generally the water is soft and has a dissolved-solids content of less than 50 mg/l. May contain iron
Pleistocene (?)	Pleistocene (?) and	0-50	Sand, varicolored, fine- to coarse- grained; gravelly sand; gray clay	Will yield 10 gpm. Potential	in excess of 0.3 mg/l.  Water probably is soft to moderately hard and has a dissolved-solids con-
Miocene	Miocene Series	0=00	that weathers to mottled shades of gray, pink, and yellow.	source of larger supplies.	tent of less than 100 mg/1. May contain iron in excess of 0.3 mg/1.
Oligocene	Oligocene Series	0-70	Clay, light-gray and greenish-gray, massive, calcareous, glauconitic; gray silty clay with thin beds of sand; yellow sandy glauconitic fossiliferous limestone; soft porous fossiliferous limestone	Relatively impermeable. Potential source of small supplies in southwest part of county near Aquilla.	Water probably is hard and has a dissolved-solids content of less than 200 mg/l.
	Jackson Group	110-160	Clay, greenish-gray, light-gray, and white, calcareous; greenish-gray and yellowish-gray fine- to coarse-grained glauconitic fossiliferous sand, sandstone, and sandy limestone; light-gray and white chalky fossiliferous marl; gray sandy clay.	Will yield 10 gpm. Potential source of larger supplies.	Water is soft to moderately hard and low in dissolved solids.
	Gosport Sand and Lisbon Formation	125-250	Sand, light-blue-green, coarse to very coarse grained, clayey, glauconitic; white, yellowish-gray and greenish-gray fine- to medium-grained glauconitic crossbedded sand; greenish-gray massive glauconitic fossiliferous clay and clayey sand; dark-gray and chocolate laminated to massive sandy carbonaceous clay.	Will yield 0.1 to 0.3 mgd per well and is a potential source of larger supplies in southwest corner of county near Aquilla.	Water is soft to moderately hard but is usually soft. Dissolved solids generally less than 500 mg/l except near Paragon, Barrytown, and Lenoir Landing where bicarbonate is principal constituent.
Eocene	Tallahatta Formation	80-125	Clay and claystone, very light gray and light gray, thin-bedded and massiwe; thin layers of sandy clay, glaucomitic sand and sandstone, and siltstone.	Will yield 10 gpm locally where thin saturated sands are of sufficient thickness. Basal sand potential source of large quantities of water in south- west part of county.	Water is probably hard to very hard and low in dissolved solids.
	Hatchetigbee Formation	250	Clay, silt, and very fine grained sand, gray, laminated, carbonaceous, mica- ceous; greenish-gray fine-grained		Water is generally soft and dissolved- solids content is less than 500 mg/l in all but the southeast part of county. Wells tapping formation have
	Hatchecighee Furnicion		calcareous glauconitic fossiliferous sand and sandstone.	Will yield or is a potential source of 0.1 to 0.3 mgd per	been abandoned in vicinity of Bladen Springs where water reportedly has a high chloride content and sulfurous odor.
ga san sa		According to	Clay, silt, and very fine grained sand, gray, laminated and thin bedded, carbonaceous, micaceous; fine- to	well.	Water is soft to very hard but generally is soft to moderately hard. Dissolve solids content generally is less than
	Tuscahoma Sand	350-650	medium-grained crossbedded sand; fossil- iferous greensand marl; thin beds of lignite.		500 mg/1. Sporadically contains iron in excess of 0.3 mg/1.
	Nanafalia Forwation	100-130	Sand, white and yellow, crossbedded,  medium- to coarse-grained, micaceous,  contains clay pebbles and quartz  granules; gray clacareous glauconitic  fossiliferous silty clay, sand, marl,  and sandstone; dark-gray massive blocky  tough clay.	Will yield or is potential source of 0.2 to 1.0 mgd per well in all areas except those northeast of Mollie and Lavaca and south of Emory, Souwilpa, and Barrytown (fig. 2).	Water generally is soft and dissolved solids content is less than 500 mg/l. Sporadically contains iron in excess of 0.3 mg/l.
Paleocene	Naheola Formation	170-190	Clay, silt, and very fine grained sand, gray, laminated and thinbedded, carbona- ceous, micaceous; black lignite; gray and yellow fine- to medium-grained glauconitic micaceous sand.	Sand in upper half of formation will yield 10 gpm where it is of sufficient thickness. Lower half of formation is relatively impermeable, not a source of ground water	
rorcocene	Porters Creek Formation	350-450	Clay, gray, massive, with distinct con- choidal fracture; greenish-gray glauconitic fossiliferous sand, sand- stone, clay, and marl.	Relatively impermeable, not a source of ground water.	Relatively impermeable, not a source of ground water.