12-436

Table 1 .-- Summary of geologic units, lithology, and availability and quality of ground water in Hale County

System	Series		Geologic unit	Thickness (feet)	Lithology	
	Holocene and Pleistocene	Low terrace and Alluvium alluvial deposits		0-50±	Sand; gravel; clay; silt.	[Will probab sufficien water supplier large supplier
Quaternary	Pleistocene	E	High terrace deposits	0-50±	Gravel; sand; clay.	Will probab sufficien water supplie large supplie hudraulicalla
			Demopolis Chalk	<i>⊙</i> ~ 200±	Chalk, light-gray, fossiliferous.	Relatively water.
(200) R290- NO: 75-452		Selma Group	Mooreville Chalk	300	Chalk, dark bluish-gray, silty, fossilif- erous; compact calcareous fossiliferous sandstone in basal part of unit; hard limestone in upper part of unit.	Relatively : water.
Cretaceous	Upper Cretaceous		Eutaw Formation	400±	Sand, gray to yellowish-brown, glauconitic; clay, light-gray to gray, laminated; shale, dark gray; thin to massive beds of fine- to coarse-grained glauconitic sand and light- gray to gray laminated clay in lower part; fine- to medium-grained fossiliferous glau- conitic sand and, locally, thin beds of hard light-gray calcareous sandstone in upper part.	Principal a potential will yiel sand beds southern supplies sufficien
		Tuscaloosa Group	Gordo Formation	300~350	Sand and gravel, light-tan to brown; clay, light-gray to mottled red and gray; poorly/ sorted coarse-grained sand and chert gravel. formation in lower part of unit; upper part consists of laminated to massive clay and lentic- ular sand beds.	Principal a large sup to indivi part of f parts of supplies
			Coker Formation	500-600	Sand, yellowish-gray, fine- to coarse-grained; gravel; clay, olive-gray to yellowish-gray, sandy; clay predominates in upper part of Fermation formation unit; basal part of unit consists of coarse- grained sand and gravel.	Principal a source of 1.5 mgd t gravel be entire co

demonstrates 21

			States and the second
Availabi	lity	of	water

ly yield 10 gpm where sands are of

nt saturated thickness 74 ields adequate s for domestic use ; potential source of a of water where agaiters are a connected with the Black Warriov River

ly yield 10 gpm where sands are of

nt saturated thickness Nielde adequate s for domestic use; potential source of s of water where aquifers are connected with the Block Warrior River.

impermeable; not a source of ground

Quality of water

Water generally is of good quality; locally contains iron in excess of 0.3 mg/1.

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impermeable; not a source of ground

quifer in southern part of county; source of large supplies of water; d 1.5 mgd to individual wells from in lower part of formation in part of county; source of small in northern part where unit is tly saturated.

quifer at Akron; potential source of plies of water; will yield 1.5 mgd dual wells from sand beds in lower 'ormation in central and southern county; source of small to moderate in northern part.

quifer at Moundville; potential 2 large supplies of water; will yield 30 individual wells from sand and 34 in lower part of formation in 34 unty. Water is soft to very hard; generally contains iron in excess of 0.3 mg/l from middle and lower parts of unit in central part of county. Water is soft and low in iron content from upper part of unit in southern part of county. Chloride content of water is more than 250 mg/l in extreme westcentral part of county.

Water generally is soft; contains iron in excess of 0.3 mg/l except in local areas. Water is very hard and high in iron and chloride content in the extreme west-central part of the county.

Water is soft to very hard; contains iron in excess of 0.3 mg/l except in local areas. Chloride content of water is more than 250 mg/l in the extreme northwestern part of county.