

GEORGIA
STATE DIVISION OF CONSERVATION
DEPARTMENT OF MINES, MINING AND GEOLOGY
GARLAND PEYTON, Director

THE GEOLOGICAL SURVEY
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WELL LOGS OF THE
COASTAL PLAIN OF GEORGIA

by

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Prepared cooperatively by the U. S. Geological Survey

ATLANTA
1961

	Thickness (feet)	Depth (feet)
Blufftown and Eutaw (Undifferentiated):		
Sand: fine to coarse-grained; interbedded clay, brown, mica- ceous, lignitic	69	545

Tuscaloosa Formation:		
Sand: fine to coarse-grained, arkosic; interbedded clay (or kaolin), white to gray to red (mottled), micaceous, some- what sandy	101	646

Summary:

Lower Eocene (Wilcox group, undifferentiated)	58	58
Paleocene (Clayton formation)	20	78
Upper Cretaceous (Providence sand)	87	165
Upper Cretaceous (Ripley and Cusseta, undifferentiated)	311	476
Upper Cretaceous (Blufftown and Eutaw, undifferentiated)	69	545
Upper Cretaceous (Tuscaloosa formation)	101	646

Potential Water-Bearing Zones:

Sand: fine to coarse-grained	10	88
Sand: fine to coarse-grained	22	165
Sand: coarse-grained	14	203
Sand: fine to coarse-grained	17	280
Sand: fine to coarse-grained	86	476
Sand: fine to coarse-grained	42	632

MACON COUNTY

Location: Few hundred feet east of City Water Works in
Montezuma Well No.: GGS 408
Owner: No. 3 City of Montezuma Elev.: 293
Driller: Layne-Atlantic Company
Drilled: January 1954

	Thickness (feet)	Depth (feet)
Lower Eocene: Wilcox Group (Undifferentiated):		
Sand: fine to coarse-grained, yellow, argillaceous	7	7
Paleocene: Midway Group: Clayton Formation:		
Clay: gray, somewhat indurated, lignitic, finely micaceous	9	16
Limestone: gray, dense, crystalline (much calcitized), sandy, fossiliferous (macroshells)	18	34
Sand: fine to coarse-grained, angular	14	48

	Thickness (feet)	Depth (feet)
Upper Cretaceous: Providence Sand:		
Clay: bluish-gray to black, silty, carbonaceous, micaceous, pyritiferous	8	56
Sand: fine to coarse-grained, angular, arkosic, pyritiferous; interbedded clay, bluish-gray, sandy, micaceous, glauconitic, pyritiferous	137	193
Sand: fine to coarse-grained; limestone, gray, dense, crystalline, very sandy, fossiliferous (macroshells)	23	216
Ripley Formation:		
Marl: gray, somewhat chalky, sandy, micaceous, glauconitic, pyritiferous, fossiliferous (macroshells and Foraminifera)	60	276
<i>Anomalina pseudopapillosa</i> at 216-243.		
Limestone: gray, dense, very sandy, micaceous, glauconitic, fossiliferous (macroshells); indurated sand at depth	4	280
Clay: gray, sandy, micaceous, glauconitic, pyritiferous	58	338
Sand: fine to medium-grained	10	348
Cusseta Sand:		
Sand: fine to coarse-grained, angular, arkosic; interbedded clay (or kaolin), gray, somewhat sandy, micaceous	55	403
Blufftown Formation:		
Sand: fine to coarse-grained, arkosic; interbedded clay, dark-brown, fissile, splintery, highly micaceous, lignitic, pyritiferous	111	504
Summary:		
Lower Eocene (Wilcox group, undifferentiated)	7	7
Paleocene (Clayton formation)	41	48
Upper Cretaceous (Providence sand)	168	216
Upper Cretaceous (Ripley formation)	132	348
Upper Cretaceous (Cusseta sand)	55	403
Upper Cretaceous (Blufftown formation)	111	504
Potential Water-Bearing Zones:		
Sand: fine to coarse-grained	36	92
Sand: fine to coarse-grained	28	128
Sand: fine to medium-grained	10	348
Sand: fine to coarse-grained	51	403
Sand: fine to coarse-grained	18	450
Sand: fine to coarse-grained	10	470