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

THE GEOLOGICAL SURVEY
Bulletin Number 70

WELL LOGS OF THE COASTAL PLAIN OF GEORGIA

by

Stephen M. Herrick, Geologist
United States Geological Survey

Prepared cooperatively by the U. S. Geological Survey

ATLANTA
1961

	Thickness (feet)	Depth (feet)
Limestone: white to light-gray, rather dense and crystalline, somewhat softer at depth, sparsely glauconitic, sandy to very sandy at depth, pyritiferous at certain levels, fossiliferous (macroshells, Bryozoa, Ostracods and Foraminifera)	227	657
Upper Cretaceous: Providence Sand:		
Marl: dark-bluish-gray, somewhat chalky, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera)	10	667
Guembelina sp., *Globotruncana* sp., *Anomalina pseudopapillosa* at 657-667.		

Summary:

Residuum	24	24
Upper Eocene(?) (Ocala limestone)	10	34
In middle Eocene (Lisbon formation)	81	115
Middle Eocene (Tallahatta formation)	95	210
Lower Eocene (Wilcox group, undifferentiated)	150	360
In Paleocene (Clayton formation)	297	657
Upper Cretaceous (Providence sand)	10	667

Potential Water-Bearing Zones:

Sand: fine to coarse-grained	95	210
Sand: fine to coarse-grained	20	380
Limestone	227	657

Remarks:

Cuttings are thought to be of rather poor quality in intervals 360-380 and 595-657. Thus, the abundantly glauconitic sand in interval 360-380 is characteristic of the lower Wilcox rather than the Paleocene. Here the top of the Paleocene is therefore in doubt.

CALHOUN COUNTY

Location: 0.09 mi. north of Highway 37, 54 ft. west of Seaboard Air Line RR., 30 ft. east of reservoir in Edison
Well No.: GGS 353
Elev.: 312
Owner: No. 2 City of Edison
Driller: Layne-Atlantic Company
Drilled: July 1955

	Thickness (feet)	Depth (feet)
No samples	15	15
In Residuum:		
Clay: tan to olive-green (somewhat mottled), sandy, limonitic	8	23

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, angular, limonitic, and considerable residual limestone	27	50
Middle Eocene: Claiborne Group: Lisbon Formation:		
Limestone: gray, dense, sandy, glauconitic (finely disseminated grains), fossiliferous (a coquina at certain levels, echinoid and bryozoan remains, and some Foraminifera); interbedded marl, light-gray, silty, glauconitic, somewhat micaceous, fossiliferous (Ostracods and Foraminifera); sand, fine to coarse-grained, angular	55	105
Tallahatta Formation:		
Sand: fine to coarse-grained, subangular, sparsely phosphatic; interbedded clay, gray to yellowish-green, sandy, carbonaceous, micaceous	70	175
Lower Eocene: Wilcox Group (Undifferentiated):		
Limestone: gray, dense, crystalline, sandy, coarsely glauconitic, fossiliferous (fragments and molds of megafossils)	15	190
Clay: dark-gray, sandy, carbonaceous, micaceous, pyritiferous	110	300
Sand: fine to medium-grained, subangular, abundantly glauconitic	25	325
Paleocene: Midway Group: Clayton Formation:		
Sand: fine to coarse-grained, subangular, grains of pale-green quartz; clay, light-gray to brown to red (mottled) blocky, sandy, carbonaceous, bauxitic(?)	40	365
Indurated sand: fine-grained, somewhat argillaceous, glauconitic, fossiliferous (macroshells and Foraminifera)	25	390
Operculinoides catenula at 340-390.		
Limestone: white, gray at depth, dense, crystalline, sandy, fossiliferous (megafossils, bryozoan remains, and Foraminifera)	115	505
Operculinoides catenula common at 390-433.		

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, angular; clay, yellow to tan, somewhat sandy	10	515

Summary:

No. samples	15	15
In residuum	35	50
Middle Eocene (Lisbon formation)	55	105
Middle Eocene (Tallahatta formation)	70	175
Lower Eocene (Wilcox group, undifferentiated)	150	325
Paleocene (Clayton formation)	190	515

Potential Water-Bearing Zones:

Sand: fine to coarse-grained	61	166
Sand: fine to coarse-grained	65	365
Limestone	115	505
Sand: fine to coarse-grained	10	515

CAMDEN COUNTY

Location: St. Marys — Well No.: GGS 54
Owner: St. Marys Kraft Corporation — Elev.: 13
Driller: Layne-Atlantic Company

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: fine to coarse-grained, finely disseminated phosphatic grains; interbedded clay, dark-gray, lignitic, micaceous	30	30
Sand: medium to coarse-grained, rounded, phosphatic	28	58
Limestone: dark-gray, very dense (highly calcitized), sandy, sparsely phosphatic	29	87
Limestone: light-gray, very dense (highly calcitized), somewhat saccharoidal, sandy, sparsely phosphatic, fossiliferous (casts and impressions of megafossils)	20	107
Sand: medium to very coarse-grained, rounded, phosphatic; clay, gray, silty	63	170
Miocene (Undifferentiated):		
Clay: dark-green, sandy, phosphatic, cherty; interbedded sand, fine to coarse-grained	160	330