

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)
Potential Water-Bearing Zones:		
Limestone	30	110
Limestone	30	160
Sand: fine to coarse-grained.....	30	200

SUMTER COUNTY

Location: 4 mi. southwest of Americus, Land Lot 210, Land District 17
 Well No.: GGS 442
 Owner: No. 1 Walter Stevens
 Driller: Flinn-Austin et al
 Drilled: June 1955
 Elev.: 431

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Middle Eocene: Claiborne Group: Tallahatta Formation:

Clay: brick-red, very sandy, limonitic.....	20	20
Sand: medium to coarse-grained, angular.....	30	50
Sand: as above; some clay, tan to red (mottled), sandy.....	25	75

Lower Eocene: Wilcox Group (Undifferentiated):

Clay: gray, sandy, micaceous, glauconitic, lignitic, pyritiferous.....	25	100
Sand: fine to medium-grained, angular, glauconitic; some clay, as above.....	55	155

Glauconite abundant at 140-150.

Paleocene: Midway Group: Clayton Formation:

Clay: black, fissile, carbonaceous, micaceous (finely disseminated).....	15	170
Limestone: gray, dense, crystalline, sandy, fossiliferous (fragments, casts and molds of megafossils, and some bryozoan remains).....	95	265
Sand: fine to coarse-grained, angular.....	10	275

In Upper Cretaceous: Providence and Ripley (Undifferentiated):

Sand: fine to coarse-grained, angular.....	25	300
Marl: dark bluish-gray, silty, micaceous, pyritiferous, fossiliferous (some Foraminifera).....	50	350

Epistomina sp., *Anomalina pseudopapillosa* at 300-310.

	Thickness (feet)	Depth (feet)
Indurated sand: fine to medium-grained, angular, fossiliferous (a coquina).....	25	375
Sand: fine to medium-grained, angular; interbedded marl, as above.....	285	660
<i>Robulus</i> sp. common at 430-440.		
<i>Gaudryina rudita</i> , <i>Cibicides harperi</i> at 440-450.		
<i>Loxostoma plaitum</i> at 490-500.		
Marl: as above; interbedded sand, fine to coarse-grained, angular.....	240	900
In Cusseta, Blufftown, and Eutaw (Undifferentiated):		
Clay or shale: brown, somewhat fissile, carbonaceous, highly micaceous, silty; interbedded sand, fine to coarse-grained, indurated locally.....	735	1,635
In Tuscaloosa Formation:		
Sand: coarse-grained, angular, arkosic; interbedded clay, pale-green to red (mottled), micaceous, sandy.....	205	1,840
Sand: coarse-grained, angular, arkosic; interbedded clay, pale-green to red (mottled), sandy, micaceous.....	230	2,070
Sand: fine-grained, lignitic, micaceous.....	70	2,140
Clay: mottled, waxy, sandy, micaceous, sideritic.....	70	2,210
Sand: coarse-grained, angular, arkosic.....	220	2,430
Summary:		
Middle Eocene (Tallahatta formation).....	75	75
Lower Eocene (Wilcox group, undifferentiated).....	80	155
Paleocene (Clayton formation).....	120	275
In Upper Cretaceous (Providence and Ripley, undifferentiated).....	625	900
In Upper Cretaceous (Cusseta, Blufftown, and Eutaw, undifferentiated).....	735	1,635
In Upper Cretaceous (Tuscaloosa formation).....	795	2,430
Potential Water-Bearing Zones:		
Sand: fine to medium-grained.....	50	150
Limestone.....	95	265
Sand: fine to coarse-grained.....	35	300

Remarks:

Additional water-bearing sands occur below a depth of 300 feet, but will have to be determined by more exact means than can be done on the basis of cuttings on which the above log is based. The electric log of this well would furnish such exacting information, but, so far, this log has not yet been released for this well.

SUMTER COUNTY

Location: Americus

Well No.: GGS 504

Owner: No. 1 Sweet Potato House

Driller: Southeastern Drilling Company

Drilled: 1956

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Residuum:

Sand: fine-grained, argillaceous, limonitic	10	10
---	----	----

Clay: pale-green to red (mottled), sandy	10	20
--	----	----

Sand: fine to coarse-grained, angular	10	30
---------------------------------------	----	----

Middle Eocene: Claiborne Group: Tallahatta Formation:

Clay: pale-green to red (mottled), sandy, blocky	10	40
--	----	----

Sand: coarse-grained, angular	10	50
-------------------------------	----	----

Lower Eocene: Wilcox Group (Undifferentiated):

Clay: olive-green to tan to red (mottled), very sandy, glauconitic	10	60
--	----	----

Clay: bluish-gray, fissile, sandy, glauconitic	40	100
--	----	-----

Glauconite very abundant at 90-100.

Paleocene: Midway Group: Clayton Formation:

Sand: coarse-grained; some clay, as above	50	150
---	----	-----

Clay: light to dark-gray to black, somewhat blocky; sand, as above	10	160
--	----	-----

Sand: coarse-grained, subangular	10	170
----------------------------------	----	-----

Clay: black, fissile, finely micaceous; some sand as above	10	180
--	----	-----

Limestone: gray, dense (much calcitized), somewhat sandy, glauconitic, fossiliferous (fragments and molds of macroshells, bryozoan remains, Ostracods, and Foraminifera)	30	210
--	----	-----

Robulus degolyeri, *Robulus midwayensis*, *Siphonina wilcoxensis*, *Eponides lotus*, *Discorbis midwayensis* var. *trinitatensis*, *Anomalina umbonifera*, *Cibicides howelli*, *Cibicides praecursorius* at 180-190.