

**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

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**ATLANTA**  
**1961**

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# LETTER OF TRANSMITTAL

Department of Mines, Mining and Geology

May 2, 1961

His Excellency, S. Ernest Vandiver  
Governor of Georgia and  
Commissioner Ex-Officio  
State Division of Conservation  
Atlanta, Georgia

Dear Governor Vandiver:

I have the honor to submit herewith Georgia Geological Survey Bulletin No. 70 "Well logs of the Coastal Plain of Georgia by Dr. Stephen M. Herrick of the Ground Water Branch, Water Resources Division, United States Geological Survey.

This report contains much valuable data about the geology and water-bearing formations of the Coastal Plain of Georgia. The ground-water information will be of tremendous aid to the cities, industries, farmers, and well drillers of the State in their search for water supplies. The geologic information will help those who are engaged in the search for petroleum in Georgia. The report includes a map showing the location of the wells.

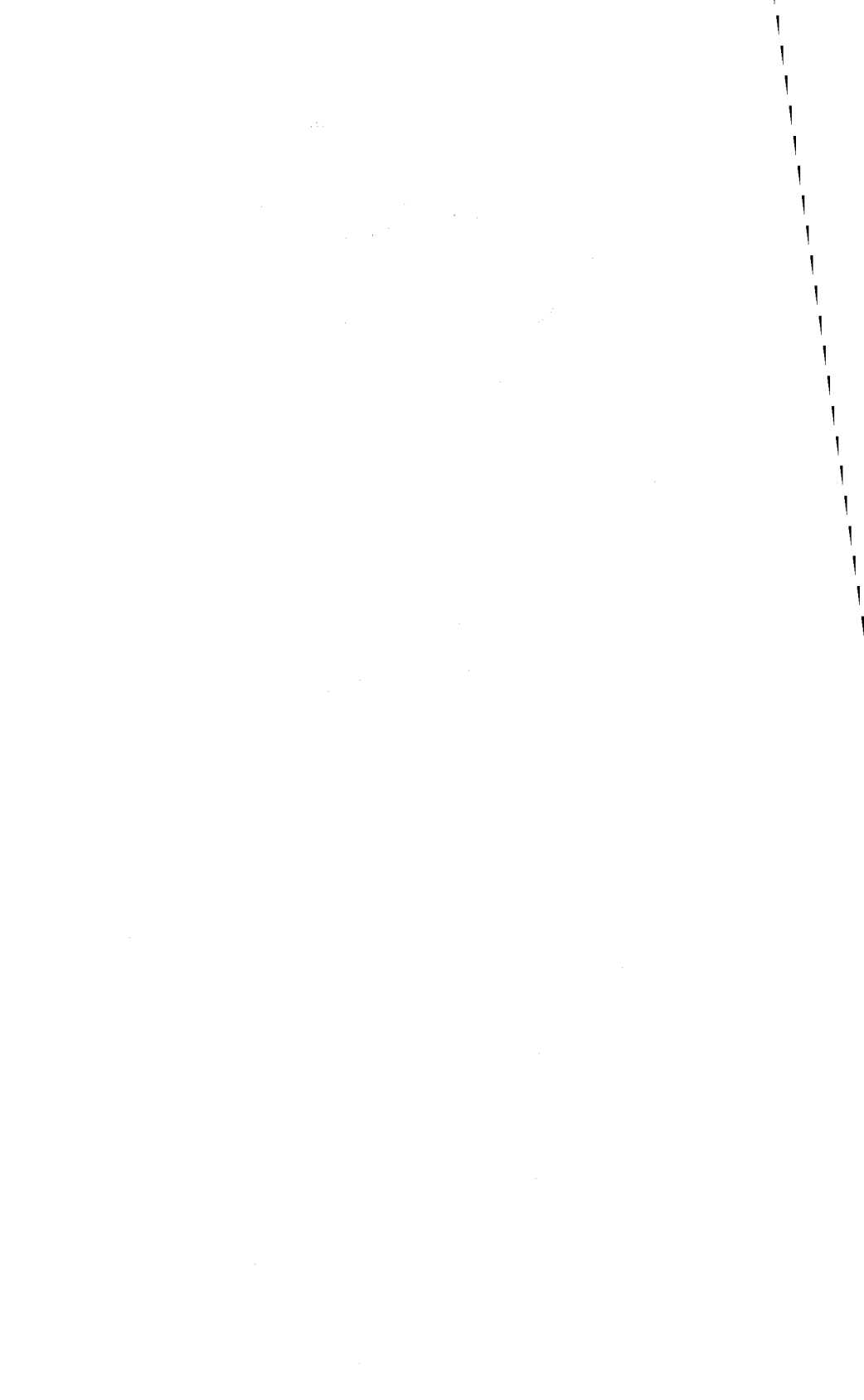
I believe that this report will be one of the most valuable contributions in the search for water and oil that we have prepared in cooperation with the Federal Survey.

Very respectfully yours,



Garland Peyton,  
Director





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## ILLUSTRATIONS

Figure 1. Well location map, Coastal Plain of Georgia ..... In Pocket

# WELL LOGS OF THE COASTAL PLAIN OF GEORGIA

By

Stephen M. Herrick

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## Introduction

Nearly all cities and all rural dwellers of the Coastal Plain of Georgia obtain their water supply from wells. This section of Georgia has some of the most extensive and productive aquifers in the United States. In the years since World War II, the development of the ground-water resources has more than doubled in some parts of the Coastal Plain, and it is considered as the key to future economic development of other parts as well.

The study of the lithologic characteristics and stratigraphic extent of the surface and subsurface formations of an area is an important adjunct to our knowledge of the occurrence and availability of ground water. One purpose of this study, therefore, was to correlate subsurface information in order to know the lithologic characteristics and stratigraphic extent of the water-bearing formations of the Coastal Plain. It is hoped that this information will prove helpful in the planning of future geologic and ground-water studies.

Another purpose of this study was to make available to the well drillers and the public information concerning the depth, thickness, and lithology of the water-bearing formations. Where quality-of-water problems exist, an attempt has been made to note this fact in the log, thereby pointing to the need for additional ground-water investigations.

This report includes well logs representative of all the Coastal Plain counties. The information may be used as a guide to those individuals or communities planning to develop the ground-water resources of their county, to tell them the type of material to be drilled through, the probable water-bearing zones, and the probable depth of a completed well.

This report contains a total of 354 well logs. The basis for these logs is well cuttings, or well samples, which have been collected by the Geological Survey during the period 1938 to 1960. Prior to 1938, samples of "wildcat" oil tests were collected by the Georgia Geological Survey and the descriptions of some of them are included.

The logs are the result of studies carried on by the author intermittently for approximately 13 years and full time since 1956. A few important logs, particularly those of certain oil tests, have necessarily been omitted from this report. Others have been published and may be consulted in the literature, and hence do not require repetition here.

This report serves to bring up to date certain information about the geology of the Coastal Plain in Georgia. Many stratigraphic problems still exist. This report will serve as a basis for future, more detailed, investigations dealing with some of these problems.

### Acknowledgments

The report was prepared as a part of the ground-water investigations of Georgia being made by the U.S. Geological Survey in cooperation with the Georgia Department of Mines, Mining, and Geology, Garland Peyton, Director. Ground-water investigations of the Geological Survey are made under the general supervision of P. E. LaMoreaux, Chief, Ground Water Branch. Acknowledgment is made of the willing cooperation of many well drillers who furnished the well cuttings for the logs. Electric logs were an important aid to this study. Many electric logs were furnished by Captain Peyton from the files of his Department. Others were made by personnel of the Ground Water Branch.

### Treatment of Well Samples

The wells described herein were selected partly on the basis of geographic location so that at least one well log would be available for every county, and partly with regard to the completeness of well samples and extent of the geologic section penetrated. All samples were examined under the binocular microscope. The gross lithology is described and some of the microfossils, chiefly Foraminifera, are listed. Preparation of the individual samples prior to examination followed the standard procedure well known to micropaleontologists the world over.

The Foraminifera represent the paleontologic control utilized in this study. The author made all the identifications shown. Of the individual species observed, only a relatively small number are included in the logs. However those listed represent the principal diagnostic guide fossils and first observed occurrences. Individual species representative of the formations penetrated during drilling were identified from comparative surface (outcrop) material wherever possible, otherwise from published descriptions and figures bearing on the subject. In many instances the specific identity of various diagnostic foraminiferal species, chiefly the "larger" Foraminifera, was not known. In such cases the specific name was omitted and only the generic name utilized, such as *Lepidocyclina* sp., *Asterocyclina* sp., *Operculinoides* sp. Moreover, complete scientific terminology for the individual species was not considered necessary for purposes of this report, and the nomenclature does not necessarily conform with present usage throughout.

Representative specimens of the foraminiferal species included in this report are deposited at the U.S. National Museum, Washington, D. C.

### Correlation

Formational names used in this report are those accepted by the U.S. Geological Survey as applicable to the southeastern Gulf Coast. In the use of the terms Flint River and Suwannee, however, it is believed that more work is needed before the true stratigraphic positions of these formations in Georgia is fully understood. To avoid difficulties these units are referred to as Oligocene undifferentiated. In general, the same can be said of certain other nomenclatural problems of the Tertiary strata of the Coastal Plain of Georgia, such as Pleistocene to Recent, Pliocene to Recent, Miocene, and lower Eocene. In this report the heading Gosport sand is not generally employed. Although the Gosport sand is a definite mappable unit in parts of the Coastal Plain, particularly in Houston County, it cannot always be differentiated from cuttings in the subsurface. For this reason it was thought best usually to include it as part of the Lisbon formation or Claiborne group, undifferentiated, as the case may be.

The strata of Cretaceous age in the southeast have been described in reports by other investigators, including W. Storrs Cole, Paul and Esther Applin, and others. In instances where Cretaceous strata were penetrated, the logs either were discontinued short of total depth or that part of the section summarized into generalized divisions such as post-Tuscaloosa, Tuscaloosa formation, and in rare instances Lower Cretaceous(?). In the logs of such wells, the first observed occurrences of key fossils in the post-Tuscaloosa part of the sections are listed in order to help other workers attempting to reconstruct the geologic history of the Coastal Plain. In wells penetrating rocks of pre-Cretaceous age no attempt is made to describe them in any detail. In most instances such rocks are designated crystalline rocks, or basement complex undifferentiated. In others the logs are discontinued short of the basement complex. The strata of Tertiary age are the most important sources of ground water in the Coastal Plain as a whole, and the geologically older beds of Cretaceous age are important as water-bearing formations only along the upper limits of the Coastal Plain, immediately down dip from the Fall Line. Greater emphasis was therefore placed on the rocks of Tertiary age.

In the lithologic descriptions of the well cuttings, the dominant type of sediment is mentioned first, followed by the other types according to the degree of representation in the samples.

Elevations employed in this report refer to mean sea level. Many elevations were obtained by means of an aneroid barometer and hence are subject to a possible error of several feet. Other elevations represent average figures, taken from highway maps issued by the Georgia Highway Department. For reconstructing subsurface conditions by means of cross sections, where only relative elevations are needed, it is felt that elevations of this order of accuracy are adequate. As time goes by and new topographic maps appear, these elevations will gradually be replaced by more accurate figures.

The well logs are listed alphabetically by counties. Each log has the designation GGS (Georgia Geological Survey) followed by the number assigned to the well, as GGS 436. No attempt was made to list part of a section represented by a missing interval (missing samples). Where the missing interval occurs at the top of a formation, the designation *In* as "In middle Eocene" was used.



The word *In* also precedes those units, the top of which could not be determined from study of the samples even though all the samples were available.

The descriptive part of each log is followed by a summary of the stratigraphy and a listing of the potential water-bearing zones penetrated in the well.

The locations of wells included in this report are shown on the map (fig. 1.) where they are designated by their numbers, the letters GGS being omitted. The symbols differentiate between an oil test and a water well and between definite and indefinite locations. Each well shown as indefinite in location cannot be plotted in its true geographic location because it is not known, but each has been located as closely as possible in the locality indicated.

## APPLING COUNTY

Location: 650 ft. west of Southern Depot and 110 ft. north of Southern R.R. in city of Baxley      Well No.: GGS 50  
 Elev.: 204  
 Owner: No. 3 City of Baxley  
 Driller: Gray Well and Pump Corporation  
 Drilled: February 1942

	Thickness (feet)	Depth (feet)
No samples .....	40	40
<b>In Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained; some very sandy clay, pale-green or mottled .....	55	95
<b>Miocene (Undifferentiated):</b>		
Clay: pale-green, sandy, phosphatic at depth; interbedded sand and limestone .....	393	488
Sand, fine to medium-grained with many black phosphatic pebbles at 225-275.		
Sand, fine to coarse-grained, abundant black phosphatic pebbles at 415-430.		
Sand as above; and many fragments of limestone, gray to white, dense (calcitized) at 430.		
Sand, fine to coarse-grained, with abundant black phosphatic pebbles at 465-475.		
Limestone: gray to white, sandy, phosphatic, fossiliferous, dolomitized at depth .....	27	515
<b>Oligocene (Undifferentiated):</b>		
Limestone: gray, dense (much calcitized) nodular, fossiliferous (Foraminifera) .....	75	590
<i>Rotalia byramensis</i> var., <i>Asterigerina</i> sp., <i>Pyrgo</i> sp. at 515-525.		
No samples .....	20	610
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: reddish-brown, extremely dense and crystalline (highly calcitized), fossiliferous (many Foraminifera) .....	20	630
<i>Gypsina globula</i> , <i>Operculinoides</i> sp., <i>Asterocyclina nassauensis</i> at 610-620.		
<i>Operculina mariannensis</i> at 620-630.		

	Thickness (feet)	Depth (feet)
Limestone: light-gray, extremely dense and crystalline (highly calcitized), fossiliferous (as above) .....	90	720
<i>Pseudophragmina</i> sp., <i>Lepidocyclina</i> sp. at 700-710.		
Limestone: white, soft and chalky in streaks; otherwise considerably calcitized and crystalline, fossiliferous (as above)....	100	820
<i>Heterostegina ocalana</i> at 760-770. <i>Amphistegina pinarensis</i> var. at 770-780.		
Limestone: light-gray, extremely dense and crystalline, as interval 630-720 .....	20	840

**Summary:**

No samples .....	40	40
In Pliocene to Recent (undifferentiated) .....	55	95
Miocene (undifferentiated) .....	420	515
Oligocene (undifferentiated) .....	75	590
No samples .....	20	610
In upper Eocene (Ocala limestone) .....	230	840

**Potential Water-Bearing Zones:**

Limestone .....	325	840
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**APPLING COUNTY**

Location: 2,433 ft. north, 2,796 ft. west of southeast corner of Land Lot 522, 2nd Land District      Well No.: GGS 148  
 Owner: No. 1 W. E. Bradley      Elev.: 229  
 Driller: Felsenthal and Weatherford  
 Drilled: July 1947

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Sand: fine to medium-grained, angular .....	10	10
No samples .....	50	60
Clay: pale-green, sandy; interbedded sand, fine to medium-grained, angular, phosphatic at depth .....	300	360
Jet-black phosphatic pebbles abundant at 180-210.		
Limestone: cream, somewhat saccharoidal and crystalline, rather dense, sandy, phosphatic, fossiliferous at depth (macroshells); scattered beds of sand, as above .....	120	480
Macroshells at 450-470.		
Limestone: as above, but somewhat dolomitized .....	40	520

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, much calcitized, massive, nodular, fossiliferous (some megafossils, echinoid and bryozoan remains, and Foraminifera) .....	120	640
<i>Rotalia mexicana</i> var. at 540-550.		
<i>Gypsina globula</i> <sup>1</sup> , <i>Asterocyclina</i> sp. at 560-570.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 580-590.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, more porous than above, fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera) .....	120	760
<i>Lepidocyclina</i> sp., <i>Camerina</i> sp. at 640-650.		
<i>Operculinoides ocalanus</i> , <i>Asterocyclina</i> sp. at 650-660.		
<i>Camerina striatoreticulata</i> at 700-710.		
Limestone: as above, but much calcitized, crystalline, massive, fossiliferous (Foraminifera at certain levels) .....	160	920
<i>Operculina mariannensis</i> at 780-790.		
Various species of larger Foraminifera abundant at 800-900.		
<b>In Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: cream, much calcitized, somewhat granular in texture, rather massive, coarsely glauconitic at depth, cherty at certain levels; interbedded limestone, gray, dense, crystalline, massive, sandy, glauconitic (finely disseminated), fossiliferous (macroshells and bryozoan remains at certain horizons); sand, fine to medium-grained, angular, somewhat phosphatic .....	430	1,350
<i>Cibicides westi</i> at 1260-1270.		
<i>Operculinoides</i> sp. at 1300-1310.		
Sand: fine to coarse-grained, angular; marl, gray, somewhat carbonaceous, micaceous, glauconitic .....	80	1,430
Limestone: white, dense, much calcitized, coarsely glauconitic, fossiliferous; dolomitic limestone, dark-brown, saccharoidal, glauconitic .....	100	1,530
Macroshells common to abundant at 1450-1530.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, angular, abundantly glauconitic; relatively thin stringers of marl, dark-gray, silty, glauconitic, fossiliferous (Foraminifera at certain horizons) ..	160	1,690
<i>Cibicides tallahattensis</i> at 1570-1580.		
<i>Valvulineria jacksonensis</i> var. at 1600-1610.		
<b>Lower Eocene and Paleocene (Undifferentiated):</b>		
Marl: gray, silty, carbonaceous, micaceous, glauconitic, fossiliferous (Foraminifera) .....	70	1,760
<i>Eponides dorfi</i> , <i>Globorotalia wilcoxensis</i> at 1715-1538.		
No samples .....	30	1,790
Limestone: gray, much calcitized, dense, crystalline, massive, glauconitic .....	90	1,880
Sand: fine to medium-grained, angular; interbedded marl, dark-gray, somewhat fissile, carbonaceous, micaceous (finely disseminated); and limestone, as above .....	215	2,095
<b>Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Sand: fine to medium-grained, angular; interbedded marl, gray, silty, glauconitic, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera at certain levels) .....	215	2,310
<i>Anomalina pseudopapillosa</i> at 2155-2170.		
<i>Globotruncana</i> sp., <i>Gaudryina</i> sp. at 2275-2290.		
<i>Dorothia</i> sp., <i>Guembelina striata</i> at 2300-2310.		
Marl: gray to brown, more fissile (shaley) with depth, silty, micaceous, carbonaceous, pyritiferous, fossiliferous (mega-fossils, Ostracods, and Foraminifera at certain levels) .....	440	2,750
<i>Cibicides harperi</i> at 2480-2490.		
<i>Planulina taylorensis</i> at 2580-2590.		
Sand: fine to medium-grained, angular, phosphatic; interbedded marl, as above .....	150	2,900
Marl: brown, fissile, silty, carbonaceous, micaceous, pyritiferous, fossiliferous (Foraminifera) .....	50	2,950

	Thickness (feet)	Depth (feet)
<i>Inoceramus</i> prisms common, <i>Kyphopyxa christneri</i> at 2900-2910.		
Sand: fine to coarse-grained, angular, somewhat indurated at certain levels, micaceous, phosphatic, fossiliferous, (macroshells, a coquina at certain horizons) .....	100	3,050
<b>Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, glauconitic, fossiliferous (macroshells) .....	70	3,120
Sand: dark-gray to black, fissile, carbonaceous (finely disseminated); interbedded sand, as above .....	200	3,320
Sand: fine-grained, indurated, micaceous, glauconitic .....	100	3,420
Sand: coarse-grained, massive, angular, arkosic; clay, dark-brown to brick-red, waxy, micaceous, sandy .....	540	3,960
Siderite nodules abundant at 3480-3490.		
<b>Lower Cretaceous (?) (Undifferentiated):</b>		
Clay: pale-green to brick-red, waxy, highly micaceous, sandy; interbedded sand, coarse-grained, angular, arkosic .....	115	4,075
<b>Basement Complex (Undifferentiated):</b>		
Crystalline rock, undifferentiated .....	23	4,098
<b>Summary:</b>		
Miocene (undifferentiated) .....	520	520
Oligocene (undifferentiated) .....	120	640
Upper Eocene (Ocala limestone) .....	280	920
In middle Eocene (Lisbon formation) .....	610	1,530
In middle Eocene (Tallahatta formation) .....	160	1,690
Lower Eocene and Paleocene (undifferentiated) .....	405	2,095
Upper Cretaceous (post-Tuscaloosa undifferentiated) .....	955	3,050
Upper Cretaceous (Tuscaloosa formation) .....	910	3,960
Lower Cretaceous (?) (undifferentiated) .....	115	4,075
Basement complex (undifferentiated) .....	23	4,098
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	320	860
Sand: fine to coarse-grained .....	50	1,430

## APPLING COUNTY

Location: About 2 mi. east of Graham, Land Lot 108, 3rd Well No.: GGS 161  
 Land District Elev.: 199  
 Owner: No. 1 Baptist Home  
 Driller: W. B. Graham  
 Drilled: 1947

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, arkosic at depth .....	90	90
<b>Miocene (Undifferentiated):</b>		
Clay: light-gray to pale-green, very sandy, phosphatic at depth; interbedded sandy limestone and beds of sand .....	460	550
Gray to brown phosphatic pebbles at 230-240.		
Sand, indurated, phosphatic, at 390-420.		
Dolomitic limestone, light-brown, sandy, phosphatic, at 420-450.		
Sand, fine to coarse-grained, phosphatic at 450-550.		
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream to light-gray, soft and dense (calcitized), nodular, fossiliferous (Foraminifera) .....	80	630
<i>Rotalia byramensis</i> at 550-560.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 570-580.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, dense (much calcitized), fossiliferous (bryozoan remains and Foraminifera) .....	10	640
<i>Operculinoides floridensis</i> at 630-640.		

## Summary:

Pliocene to Recent (undifferentiated) .....	90	90
Miocene (undifferentiated) .....	460	550
Oligocene (undifferentiated) .....	80	630
Upper Eocene (Ocala limestone) .....	10	640

## Potential Water-Bearing Zones:

Sand: fine to coarse-grained .....	10	60
Sand: fine to coarse-grained, phosphatic .....	100	550
Limestone .....	90	640

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## ATKINSON COUNTY

Location: 1,650 ft. north and 660 ft. east of southwest  
corner of Land Lot 71, 7th Land District  
Owner: No. 1 Doster Ladson  
Driller: Sun Oil Company  
Drilled: January 1945

Well No.: GGS 107  
Elev.: 222  
(derrick floor)

	Thickness (feet)	Depth (feet)
No samples .....	90	90
<b>In Miocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, subangular, phosphatic .....	10	100
Sand: as above; and clay, pale-green, somewhat indurated and tough, sandy .....	70	170
Limestone: cream to light-brown, dense, somewhat saccha- roidal, much calcitized, sandy, fossiliferous (molluscan shells); interbedded with sand and clay, as above .....	90	260
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, nodular, rather massive, cherty, sandy, fossiliferous (some Foraminifera) .....	130	390
<i>Quinqueloculina</i> sp., <i>Rotalia mexicana</i> var., <i>Asterigerina subacuta</i> at 260-270.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, calcitized, fossiliferous (molluscan shells, echinoids, bryozoan remains and Foraminifera) .....	190	580
<i>Camerina</i> sp. at 400-410. <i>Camerina</i> sp., <i>Lepidocyclina</i> sp. at 440-450. <i>Gypsina globula</i> common at 460-470.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Dolomitic limestone: brown, rather massive, saccharoidal, sandy; some limestone, as above .....	20	600
Sand: medium to coarse-grained, subangular; dolomitic lime- stone, as above .....	30	630



	Thickness (feet)	Depth (feet)
Limestone: cream, calcitized, somewhat nodular and loosely consolidated, granular, chalky, cherty at certain levels, fossiliferous (Foraminifera); interbedded limestone, similar to above but partially dolomitized, light-brown, saccharoidal.....	690	1,290
<i>Lepidocyclina</i> sp. at 700-710.		
<i>Discorinopsis gunteri</i> at 810-820.		
<i>Asterocyclina monticellensis</i> at 930-940.		
<i>Asterocyclina monticellensis</i> , <i>Lepidocyclina antillea</i> at 1030-1040.		
<i>Discorbis inornatus</i> at 1060-1070.		

**Tallahatta Formation:**

Dolomitic limestone: brown, saccharoidal, somewhat cherty, gypsiferous, glauconitic at depth; interbedded with limestone, cream, calcitized, granular, sparsely glauconitic, fossiliferous (Foraminifera) .....	190	1,480
<i>Operculinoides</i> sp., <i>Asterocyclina</i> sp. at 1330-1340.		
<i>Lepidocyclina antillea</i> common at 1350-1360.		

**Lower Eocene: Wilcox Group (Undifferentiated):**

Limestone: white to cream, much calcitized, dense, massive, coarsely glauconitic, sandier at depth, fossiliferous at certain levels (molluscan shells and Foraminifera) .....	170	1,650
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**Paleocene: Midway Group: Clayton Formation:**

Indurated sand <sup>1</sup> : fine-grained, micaceous, finely phosphatic, fossiliferous (fragments and molds of molluscan shells) .....	50	1,700
Limestone: gray to cream, much calcitized, dense, coarsely glauconitic, sandy, fossiliferous (fragments and molds of molluscan shells and some Foraminifera) .....	130	1,830
<i>Robulus midwayensis</i> ? at 1720-1730.		
<i>Robulus midwayensis</i> at 1740-1750.		

**Upper Cretaceous: Providence and Ripley (Undifferentiated):**

Clay (or marl?): dark-brownish to bluish-gray, silty, micaceous, sparsely glauconitic, pyritiferous, fossiliferous at certain levels (Foraminifera); interbedded with thin tongues of sand, fine-grained, micaceous, pyritiferous .....	580	2,410
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<sup>1</sup>This sand contains *Operculinoides catenula* and *Pseudophragmina stephensoni* in wells situated farther west, hence is tentatively placed in the Paleocene.

	Thickness (feet)	Depth (feet)
<i>Anomalina pseudopapillosa?</i> at 1870-1880.		
<i>Robulus navarroensis</i> at 1890-1900.		
<i>Robulus navarroensis</i> , <i>Globotruncana</i> sp., <i>Anomalina pseudopapillosa</i> at 1940-1950.		
<i>Cibicides harperi</i> at 2030-2040.		
<i>Clavulinoides trilatera</i> , <i>Globotruncana</i> sp. at 2070-2080.		
<i>Palmula reticulata</i> at 2310-2320.		
<i>Spiroplectammina semicomplanata</i> at 2390-2400.		

**Cusseta and Blufftown Formations (Undifferentiated):**

Marl: as above but more abundantly fossiliferous .....	380	2,790
<i>Bolivinoides decorata</i> at 2410-2420.		
<i>Planulina texana</i> at 2610-2620.		

**Blufftown Formation:**

Marl: as above but coarsely glauconitic .....	465	3,255
Glauconite prominent at 2790-2800.		
<i>Vaginulina texana</i> at 3050.		
<i>Inoceramus</i> prisms common to abundant at 2950-2960.		

**Entaw Formation (Restricted):**

Indurated sand: fine to medium-grained, subangular, micaceous, phosphatic, glauconitic, fossiliferous at certain levels (fish teeth and molluscan shells); interbedded with thin stringers of clay, dark-brownish-green, laminated, silty, micaceous .....	132	3,387
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**Tuscaloosa Formation:**

Sand: fine to coarse-grained, subangular, abundantly micaceous, glauconitic at certain horizons, pyritiferous, arkosic; interbedded with relatively thin stringers of clay, dark-brown to brownish-green, somewhat laminated, silty, finely micaceous; a few thin beds of lignite .....	291	3,678
Shale (or thinly laminated clay): dark-brown, laminated, silty, micaceous, lignitic, fossiliferous at certain levels (impressions and fragments of molluscan shells); interbedded with scattered tongues of indurated sand, fine to medium-grained, subangular, micaceous, glauconitic, fossiliferous at various levels (oyster shells) .....	132	3,810

	Thickness (feet)	Depth (feet)
Sand: coarse-grained, subangular, abundantly micaceous, arkosic, pyritiferous; interbedded with beds of clay, dark-brownish-green with red to purple streaks (mottled), silty, micaceous, sideritic at certain horizons .....	130	3,940
<b>Lower Cretaceous? (Undifferentiated):</b>		
Sand: coarse-grained, subangular to subrounded, varicolored, coarsely micaceous, arkosic; interbedded with many relatively thin stringers of clay, brick-red, silty, micaceous .....	280	4,220
<b>Basement Complex:</b>		
Volcanic tuff <sup>1</sup> .....	76	4,296

**Summary:**

No samples .....	90	90
Miocene (undifferentiated) .....	170	260
Oligocene (undifferentiated) .....	130	390
Upper Eocene (Ocala limestone) .....	190	580
Middle Eocene (Lisbon formation) .....	710	1,290
Middle Eocene (Tallahatta formation) .....	190	1,480
Lower Eocene (Wilcox Group, undifferentiated) .....	170	1,650
Paleocene (Clayton limestone) .....	180	1,830
Upper Cretaceous (Providence and Ripley, undifferentiated) .....	580	2,410
Upper Cretaceous (Cusseta and Blufftown, undifferentiated) .....	380	2,790
Upper Cretaceous (Blufftown formation) .....	465	3,255
Upper Cretaceous (Eutaw, restricted) .....	132	3,387
Upper Cretaceous (Tuscaloosa formation) .....	553	3,940
Lower Cretaceous (?) (undifferentiated) .....	280	4,220
Basement complex .....	76	4,296

**ATKINSON COUNTY**

Location: City of Pearson  
 Owner: No. 2 City of Pearson  
 Driller: Merrel Gray Drilling Company  
 Drilled: 1955

Well No: GGS 425  
 Elev.: 205<sup>2</sup>

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: red, sandy, limonitic .....	10	10
Sand: fine to coarse-grained, limonitic, with inclusions of kaolin (clay; white, somewhat sandy), and some clay as above .....	30	40
Clay: tan to dark-brown, sandy .....	10	50

<sup>1</sup>Reported by Paul L. Applin, 1951, U.S. Geol. Survey Circ. 91, p. 21.

<sup>2</sup>Average elevation taken from State Highway map.

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: pale-green, sandy, phosphatic at depth; interbedded sand .....	90	140
Gray phosphatic pebbles, at 60-70.		
Fine-grained sand, at 70-90.		
Fine-grained sand, at 110-140.		
Clay: pale-green, sandy, phosphatic; interbedded with thin beds of limestone, white, sandy; some sand as above .....	50	190
Limestone: white, sandy, phosphatic, dolomitized at depth, fossiliferous (macroshells) .....	90	280
Dolomitic limestone, light-brown, saccharoidal, phosphatic, at 220-280.		
Clay: pale-green, sandy, with some dolomitic limestone and sand as above .....	10	290
<b>Oligocene (Undifferentiated):</b>		
Clay: with fragments of limestone, nodular, recrystallized, calcitized, more fossiliferous with depth .....	110	400
<i>Quinqueloculina</i> sp. at 290-300.		
<i>Quinqueloculina</i> cf. <i>Q. leonensis</i> , <i>Dictyoconus</i> <sup>1</sup> sp. at 300-310.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: dense, much calcitized, fossiliferous (macroshells, bryozoan remains, and Foraminifera) .....	20	420
<i>Operculinoides</i> cf. <i>O. ocalanus</i> at 400-410.		
<i>Asterocyclina nassauensis</i> at 410-420.		
Limestone: softer, less calcitized than above .....	40	460
<i>Gypsina globula</i> at 420-430.		
<i>Operculinoides</i> sp. abundant at 440-450.		
<i>Pseudophragmina flintensis</i> at 450-460.		

## Summary:

Pliocene to Recent (undifferentiated) .....	50	50
Miocene (undifferentiated) .....	240	290
Oligocene (undifferentiated) .....	110	400
Upper Eocene (Ocala limestone) .....	60	460

## Potential Water-Bearing Zones:

Limestone .....	160	460
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<sup>1</sup>Reworked(?) fossil of middle Eocene age.

## BACON COUNTY

Location: City of Alma  
 Owner: No. 1 City of Alma  
 Driller: Gray Well & Pump Company  
 Drilled: May 1938

Well No.: GGS 58  
 Elev.: 200

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: red, some gray (mottled), very sandy, limonitic .....	50	50
No samples .....	14	64
<b>In Miocene (Undifferentiated):</b>		
Clay: pale-green, sandy, phosphatic at depth; interbedded sand and sandy limestone .....	296	360
Brown chert abundant at 200-210.		
Brown phosphatic pebbles at 210-220.		
Fossiliferous limestone of macroshells at 260-270.		
Limestone: white, sandy, fossiliferous and dolomitic at depth....	90	450
Dolomitic limestone, brown, saccharoidal, at 400-450.		
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, fossiliferous .....	50	500
<i>Rotalia byramensis</i> , <i>Dictyoconus</i> <sup>1</sup> sp. at 450-460.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, fossiliferous .....	126	626
<i>Operculinoides floridensis</i> at 500-510.		
Bryozoan remains abundant at 520-530.		
<i>Gypsina globula</i> at 540-550.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	50	50
No samples .....	14	64
In Miocene (undifferentiated) .....	386	450
Oligocene (undifferentiated) .....	50	500
Upper Eocene (Ocala limestone) .....	126	626

**Potential Water-Bearing Zones:**

Limestone .....	126	626
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<sup>1</sup>Reworked(?) fossil of middle Eocene age.

**BAKER COUNTY**

Owner: No. 1 West Baker Elementary School  
 Drilled: 1956

Well No.: GGS 479

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, angular; fragments of residual limestone .....	10	10
Clay: gray, tan and red, sandy, limonitic, carbonaceous; fragments of residual limestone .....	70	80
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: dense, much calcitized, sandy, coarsely glauconitic, and fossiliferous at depth; some clay as above .....	114	194
Limestone with macrofossils at 95-194.		

**Summary:**

Residuum .....	80	80
Upper Eocene (Ocala limestone) .....	114	194

**Potential Water-Bearing Zones:**

Limestone .....	114	194
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**BEN HILL COUNTY**

Location: City of Fitzgerald  
 Owner: City of Fitzgerald Well No. 3  
 Driller: Layne-Atlantic Company  
 Drilled: April 1948

Well No.: GGS 154  
 Elev.: 357

	Thickness (feet)	Depth (feet)
<b>Miocene: Hawthorn Formation:</b>		
Sand: fine to coarse-grained; some clay, light-gray to red (mottled), sandy .....	74	74
Clay: pale-green, sandy; some sand as above .....	136	210
<b>Tampa Limestone:</b>		
Limestone: white, sandy, fossiliferous (macroshells and rare Foraminifera); some clay, light-gray, calcareous .....	46	256
<i>Sorites</i> sp. at 240-256.		

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: white to light-gray, extremely dense and crystalline, cherty, sandy, fossiliferous (some echinoid and bryozoan remains and Foraminifera) .....	94	350
<i>Rotalia mexicana</i> var. at 256-263.		
<i>Gypsina globula</i> <sup>1</sup> at 263-275.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, relatively soft, somewhat calcitized and granular, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	280	630
<i>Operculinoides floridensis</i> at 350-360.		
<i>Camerina striatoreticulata</i> at 600-615.		
Limestone: as above, interbedded with dolomitic(?) limestone, light-brown, saccharoidal .....	95	725
<i>Amphistegina pinarensis</i> var. at 630-645.		

**Middle Eocene(?): Claiborne Group (Undifferentiated):**

Limestone: cream, nodular, much calcitized, very sandy, fossiliferous (some bryozoan remains and Foraminifera) .....	14	739
<i>Lepidocyclina</i> sp. at 725-739.		

**Summary:**

Miocene (Hawthorn formation) .....	210	210
Miocene (Tampa limestone) .....	46	256
Oligocene (undifferentiated) .....	94	350
Upper Eocene (Ocala limestone) .....	375	725
Middle Eocene(?) (Claiborne group, undifferentiated) .....	14	739

**Potential Water-Bearing Zones:**

Limestone .....	280	630
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<sup>1</sup>Reworked(?) fossil of middle Eocene age.

## BEN HILL COUNTY

Location: Land Lot 120, 3rd Land District  
 Owner: No. 1 W. A. Pope  
 Driller: W. B. Graham  
 Drilled: 1947

Well No.: GGS 160  
 Elev.: 370<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Miocene: Hawthorn Formation:</b>		
Clay: light-gray to pale-green, sandy; and sand, fine to coarse-grained .....	190	190
<b>Tampa Limestone:</b>		
Limestone: white, sandy, interbedded with thin stringers of sand and an occasional clay bed .....	70	260
Clay, light-gray, calcareous, at 230-340.		
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream to white, rather dense, nodular, fossiliferous (some Foraminifera) .....	100	360
<i>Rotalia byramensis</i> at 260-270.		
<i>Dictyoconus</i> <sup>2</sup> sp. at 340-350.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone, as above .....	20	380
<i>Operculinoides floridensis</i> , <i>Lepidocyclina</i> sp. at 360-370.		
<b>Summary:</b>		
Miocene (Hawthorn formation) .....	190	190
Miocene (Tampa limestone) .....	70	260
Oligocene (undifferentiated) .....	100	360
Upper Eocene (Ocala limestone) .....	20	380
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	90	380

<sup>1</sup>Elevation taken from State Highway map.  
<sup>2</sup>Reworked (?) fossil of middle Eocene age.



## BEN HILL COUNTY

Location: West side of Gordon Street in Fitzgerald  
 Owner: City of Fitzgerald Well No. 4  
 Driller: Layne-Atlantic Company  
 Drilled: August 1953

Well No.: GGS 355  
 Elev.: 357

	Thickness (feet)	Depth (feet)
<b>Miocene: Hawthorn Formation:</b>		
Clay: mottled to pale yellowish-green at depth, sandy; interbedded sand, fine to coarse-grained, subangular, phosphatic....	179	179

**Tampa Limestone:**

Limestone: white, sandy, fossiliferous (macroshells at depth)....	64	243
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**Oligocene (Undifferentiated):**

Limestone: cream, massive, dense, saccharoidal, somewhat nodular, cherty, fossiliferous (bryozoan remains, Ostracods, and Foraminifera) .....	52	295
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*Rotalia mexicana* var., *Nonion advena*, *Cibicides* sp. at 243-254.

*Rotalia mexicana* var., *Asterigerina subacuta* at 261-269.

**Summary:**

Miocene (Hawthorn formation) .....	179	179
Miocene (Tampa limestone) .....	64	243
Oligocene (undifferentiated) .....	52	295

**Potential Water-Bearing Zones:**

Limestone .....	52	295
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**Remarks:**

1. Better water-bearing limestones lie below depth of 295.
2. This well reportedly was drilled to a total depth of 612.

## BERRIEN COUNTY

Location: About halfway between Alapaha and Nashville, Land Lot 41, 10th Land District  
 Well No.: GGS 159  
 Elev.: 265<sup>1</sup>  
 Owner: No. 1 L. R. King  
 Driller: W. B. Graham  
 Drilled: 1947

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained; and some clay, light-gray, sandy .....	80	80
<b>Miocene: Hawthorn Formation:</b>		
Clay: pale-green, sandy, phosphatic at depth .....	90	170
Gray phosphatic pebbles at 100.		
<b>Tampa Limestone:</b>		
Limestone: white, sandy, dolomitized at depth .....	147	317
Dolomitic limestone at 220-300.		
<i>Elphidium</i> sp. at 300-317.		

## Summary:

Pliocene to Recent (undifferentiated) .....	80	80
Miocene (Hawthorn formation) .....	90	170
Miocene (Tampa limestone) .....	147	317

## Potential Water-Bearing Zones:

Limestone .....	27	317
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## BERRIEN COUNTY

Location: Near Nashville  
 Well No.: GGS 421  
 Elev.: 240<sup>1</sup>  
 Owner: No. 1 P. D. Fulwood Company  
 Driller: Layne-Atlantic Company  
 Drilled: March 1955

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, subangular to subrounded, limonitic; clay, yellow to tan, sandy .....	3	3
Clay: pale-bluish-gray with purple streaks (mottled), sandy, limonitic .....	11	14

<sup>1</sup>Average elevation taken from State Highway map.

	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained, subangular to subrounded, arkosic, sparsely phosphatic .....	50	64
<b>Miocene (Undifferentiated):</b>		
Clay: pale-brownish to yellowish-green, blocky, sandy .....	20	84
Limestone: white, rather dense, saccharoidal, sandy, cherty .....	98	182
<b>Oligocene (Undifferentiated):</b>		
Limestone: white, nodular, much calcitized, somewhat sac- charoidal, fossiliferous (Foraminifera) .....	35	217
<i>Quinqueloculina</i> sp., <i>Rotalia mexicana</i> var. at 182-187.		
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, rather soft, somewhat chalky, fossilifer- ous (bryozoan remains and Foraminifera) .....	93	310
<i>Gypsina globula</i> at 207-228.		
<i>Operculinoides</i> sp. common at 248-269.		
Limestone: flat-white, much calcitized, somewhat crystalline, fossiliferous (bryozoan remains and Foraminifera) .....	20	330
<i>Operculinoides</i> sp., <i>Lepidocyclina</i> sp., <i>Asterocyclina</i> sp. at 325-330.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	64	64
Miocene (undifferentiated) .....	118	182
Oligocene (undifferentiated) .....	35	217
In upper Eocene (Ocala limestone) .....	113	330
<b>Potential Water-Bearing Zones:</b>		
Limestone: .....	113	330

**Remarks:**

Quality of samples not good. Hence top of upper Eocene (Ocala limestone) not definitely determined.

## BIBB COUNTY

Location: 8 mi. south of Macon, at Avondale  
 Owner: Cochran Flying Field (U. S. Govt.) Well No. 2  
 Driller: Layne-Atlantic Company  
 Drilled: May 1941

Well No.: GGS 7  
 Elev.: 358

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Sand: fine to coarse-grained, angular; and some clay, dark-red, very sandy .....	65	65
Clay, dark-red, very sandy at 0-15.		
Sand, fine to coarse-grained, angular, at 15-65.		
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, arkosic .....	80	145
Sand as above; interbedded with thin beds of kaolin, white to pink to red, micaceous, sandy .....	155	300
Sand, fine to coarse-grained at 200-220.		
Kaolin: white to gray to red, sandy, micaceous .....	142	442
Sand, fine to coarse-grained, at 342-353.		
Sand, fine to coarse-grained, at 371-375.		
Sand, coarse-grained, at 434-442.		
Sand: coarse-grained .....	54	496
<b>Basement Complex (Undifferentiated):</b>		
Crystalline rocks .....	13	509
<b>Summary:</b>		
Upper Eocene (Barnwell formation) .....	65	65
Upper Cretaceous (Tuscaloosa formation) .....	431	496
Basement complex (undifferentiated) .....	13	509
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained .....	45	145
Sand: fine to coarse-grained .....	20	220
Sand: fine to coarse-grained .....	11	353
Sand: fine to coarse-grained .....	4	375
Sand: fine to coarse-grained .....	6	434
Sand: fine to coarse-grained .....	48	490

## BIBB COUNTY

Location: 8 mi. south of Macon, at Avondale  
 Owner: No. 1 Cochran Flying Field (U. S. Govt.)  
 Driller: Layne-Atlantic Company  
 Drilled: 1941

Well No.: GGS 8  
 Elev.: 380

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Sand: dark-red, fine to coarse-grained, argillaceous .....	30	30
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Kaolin: gray, micaceous.....	7	37
Sand: fine to coarse-grained, interbedded with thin beds of clay .....	233	270
Sand, fine to coarse-grained at 37-74.		
Sand, fine to coarse-grained at 173-270.		
Kaolin: sandy, micaceous .....	55	325
Sand: fine to coarse-grained, angular .....	50	375

## Summary:

Upper Eocene (Barnwell formation) .....	30	30
Upper Cretaceous (Tuscaloosa formation) .....	345	375

## Potential Water-Bearing Zones:

Sand: fine to coarse-grained .....	37	74
Sand: fine to coarse-grained .....	97	270
Sand: fine to coarse-grained .....	50	375

## BIBB COUNTY

Location: Few miles southwest of Macon  
 Owner: No. 2 Macon Kraft Company  
 Driller: Layne-Atlantic Company  
 Drilled: August 1951

Well No.: GGS 230  
 Elev.: 325<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Sand: fine to coarse-grained, and some clay .....	30	30
Sand, fine to medium-grained, red, argillaceous, limonitic at 0-15.		
Sand, fine to coarse-grained at 13-30.		

<sup>1</sup>Average elevation taken from State Highway map.

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, interbedded with beds of kaolin at various levels .....	240	270
Kaolin, white, sandy, micaceous at 30-45.		
Sand, coarse-grained at 105-165.		
Kaolin, pink, sandy at 165-195.		
Sand, coarse-grained at 195-225.		
Kaolin, mottled, sandy at 225-255.		
Sand, fine to coarse-grained at 255-270.		

**Summary:**

Upper Eocene (Barnwell formation) .....	30	30
Upper Cretaceous (Tuscaloosa formation) .....	240	270

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	15	60
Sand: fine to coarse-grained .....	60	165
Sand: fine to coarse-grained .....	30	225
Sand: fine to coarse-grained .....	15	270

**BIBB COUNTY**

Location: Southwest Macon, about 1.5 mi. east of High-  
way 11      Well No.: GGS 357  
Elev.: 364

Owner: No. 1, Strietmann Biscuit Company  
Driller: Layne-Atlantic Company  
Drilled: September 1953

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Clay: tan to red to purple (mottled), sandy; some sand, fine to coarse grained, arkosic, limonitic .....	41	41
Sand, fine to coarse-grained, arkosic, limonitic at 29-41.		
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Clay: gray to pink to purple (mottled), sandy, micaceous, interbedded with sand, fine to coarse-grained, angular, arkosic .....	203	244
Sand: fine to coarse-grained, angular, arkosic .....	57	301
<b>Basement Complex (Undifferentiated):</b>		
Crystalline rock .....	2	303

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Upper Eocene (Barnwell formation) .....	41	41
Upper Cretaceous (Tuscaloosa formation) .....	260	301
Basement complex (undifferentiated) .....	2	303

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	5	92
Sand: fine to coarse-grained .....	18	139
Sand: fine to coarse-grained .....	20	166
Sand: fine to coarse-grained .....	23	194
Sand: fine to coarse-grained .....	5	217

**BIBB COUNTY**

Location: City of Macon  
 Owner: No. 1, Dixie Dairies  
 Driller: Layne-Atlantic Company  
 Drilled: October 1953

Well No.: GGS 361  
 Elev.: 305

	Thickness (feet)	Depth (feet)
<hr/>		
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, arkosic; some kaolin, white to pink, micaceous, sandy .....	26	26
Sand: fine to coarse-grained, angular, with kaolin inclusions...	100	126
Clay: gray to pink to brick-red, micaceous, sandy .....	46	172
Sand: coarse-grained, arkosic .....	40	212
Sand: as above; with fragments of clay, pale-green, highly micaceous (probably weathered crystalline rock?) .....	37	249

**Basement Complex (Undifferentiated):**

Crystalline rock, much weathered .....	4	253
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**Summary:**

Upper Cretaceous (Tuscaloosa formation) .....	249	249
Basement complex (undifferentiated) .....	4	253

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	100	126
Sand: fine to coarse-grained .....	40	212

## BLECKLEY COUNTY

Location: 0.6 mi. north of Railway Depot in Cochran, Well No.: GGS 106  
 approximately 0.25 mi. east of Highway 129 in Cochran Elev.: 364

Owner: No. 1, Hill Lumber Company  
 Driller: Layne-Atlantic Company  
 Drilled: February 1946

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: pale-green to mottled, sandy, limonitic .....	79	79
<b>Oligocene (Undifferentiated):</b>		
Limestone: gray, extremely dense (silicified), very cherty .....	17	96
<b>Summary:</b>		
Miocene (undifferentiated) .....	79	79
Oligocene (undifferentiated) .....	17	96

**Potential Water-Bearing Zones:**

None observed to total depth of well; well unsuccessful.

## BLECKLEY COUNTY

Location: Northeastern part of city, 0.5 mi. east of Highway 129 in City of Cochran Well No.: GGS 195  
 Elev.: 354

Owner: City of Cochran Well No. 2  
 Driller: Layne-Atlantic Company  
 Drilled: December 1949

	Thickness (feet)	Depth (feet)
<b>Miocene and Oligocene Residuum:</b>		
Clay: mottled to pale-green, sandy; some sand, fine to coarse-grained; fragments of residual limestone, much leached, cherty, fossiliferous (bryozoan remains and Foraminifera) ....	95	95
<i>Rotalia byramensis</i> at 0-95.		
<b>In Oligocene (Undifferentiated):</b>		
Limestone: white, dense (much calcitized), cherty, fossiliferous (some bryozoan remains and impressions of mega-fossils) .....	4	99



	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Cooper Marl:</b>		
Sand: fine to medium-grained, limey, fossiliferous (Foraminifera) .....	26	125
<i>Bulimina jacksonensis</i> , <i>Uvigerina</i> sp. at 99-125.		
<b>Barnwell Formation (Twiggs Clay Member):</b>		
Marl: light-gray, somewhat sandy to "tight," glauconitic, fossiliferous (Foraminifera) .....	29	154
<i>Bulimina jacksonensis</i> common at 125-135.		
Limestone: gray, dense (much calcitized), sandy, finely glauconitic .....	5	159
Marl: light-gray, glauconitic; some limestone, cream, soft, fossiliferous (abundant bryozoan remains) .....	30	189
<b>Ocala Limestone (Tivola Tongue):</b>		
Limestone: cream, soft, fossiliferous (consists almost entirely of bryozoan remains) .....	9	198
<b>Barnwell Formation (Twiggs Clay Member):</b>		
Marl: light-gray, glauconitic; some limestone, cream, soft, fossiliferous (abundant bryozoan remains) .....	13	211
<b>Ocala Limestone (Tivola Tongue):</b>		
Limestone: cream, soft, fossiliferous (consists almost entirely of bryozoan remains) .....	39	250
<i>Lepidocyclina</i> cf. <i>L. ocalana</i> at 211-217.		
<b>Middle Eocene: Claiborne Group: Gosport Sand:</b>		
Sand: fine to medium-grained, angular .....	10	260
<b>Lisbon Formation:</b>		
Clay: light-gray, sandy, finely glauconitic, fossiliferous (some Foraminifera) .....	60	320
<i>Cibicides westi</i> at 260-320.		
<b>Lower Eocene(?) and Paleocene(?) (Undifferentiated):</b>		
Sand: coarse-grained; some clay, gray to pink, sandy, lignitic .....	74	394
Sand: fine to medium-grained .....	16	410

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Clay: white to gray to brick-red, sandy, lignitic, micaceous; some sand, fine to medium-grained .....	140	550
Sand: fine to coarse-grained; some thin stringers of clay, gray to pink, sandy, micaceous .....	61	611

**Summary:**

Miocene and Oligocene residuum .....	95	95
In Oligocene (undifferentiated) .....	4	99
Upper Eocene (Cooper marl) .....	26	125
Upper Eocene (Barnwell formation, Twiggs clay member) .....	64	189
Upper Eocene (Ocala limestone, "Tivola tongue") .....	9	198
Upper Eocene (Barnwell formation, Twiggs clay member) .....	13	211
Upper Eocene (Ocala limestone, "Tivola tongue") .....	39	250
Middle Eocene (Gosport sand) .....	10	260
Middle Eocene (Lisbon formation) .....	60	320
Lower Eocene(?) and Paleocene(?) (undifferentiated) .....	90	410
Upper Cretaceous (Tuscaloosa formation) .....	201	611

**Potential Water-Bearing Zones:**

Sand: fine to medium-grained .....	10	260
Sand: fine to coarse-grained .....	74	394
Sand: fine to coarse-grained .....	19	534
Sand: fine to coarse-grained .....	61	611

**BLECKLEY COUNTY**

Location: At Cary  
 Owner: No. 1 Smith  
 Driller: H. B. Truluck  
 Drilled: 1950

Well No.: GGS 277

	Thickness (feet)	Depth (feet)
No samples .....	25	25

**In Miocene and Oligocene Residuum:**

Clay: light-gray to pale-green, cherty at depth; interbedded sand, fine to coarse-grained, limonitic, arkosic .....	110	135
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**Summary:**

No samples .....	25	25
In Miocene and Oligocene residuum .....	110	135

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained .....	10	135

**BRANTLEY COUNTY**

Location: 0.25 mi. southeast of Atlantic Coast Line      Well No.: GGS 9  
 R.R. crossing in city of Nahunta                              Elev.: 64  
 Owner: City of Nahunta  
 Driller: Gray Well and Pump Corporation  
 Drilled: August 1938

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, finely disseminated phosphatic grains .....	30	30
Clay: dark-gray, silty, micaceous .....	4	34
Indurated sand: fine to coarse-grained, sparsely phosphatic .....	6	40
Sand: fine to coarse-grained, rounded grains, arkosic .....	10	50
Limestone: light-gray to light-brown, dense (calcitized) nodular, sandy, fossiliferous (casts and impressions of megafossils) .....	10	60
Sand: fine to coarse-grained, arkosic .....	8	68

**Miocene (Undifferentiated):**

Clay: dark-green, sandy, blocky; interbedded tongues of sand, fine to coarse-grained, phosphatic .....	358	426
Black phosphatic pebbles abundant at 150-160.		
Dolomitic limestone: light-brown, saccharoidal, phosphatic; interbedded beds of sand, fine to coarse-grained, phosphatic .....	121	547
Dolomitic limestone prominent at 426-434.		

**Oligocene (Undifferentiated):**

Limestone: gray, dense (much calcitized), nodular, fossiliferous (bryozoan remains and Foraminifera) .....	101	648
<i>Dictyoconus</i> <sup>1</sup> sp. at 600-625.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	68	68
Miocene (undifferentiated) .....	479	547
Oligocene (undifferentiated) .....	101	648

**Potential Water-Bearing Zones:**

Limestone and sand .....	113	547
Limestone .....	101	648

**Remarks:**

Samples of poor quality below 68.

**BRANTLEY COUNTY**

Location: 1.4 mi. north of Atlantic Coast Line R.R. at Well No.: GGS 90  
Waynesville, and 0.1 mi. east of county road from Elev.: 60  
Waynesville to Browntown  
Owner: No. 1 CCC Camp (U. S. Govt.)  
Driller: Gray Well & Pump Corporation  
Drilled: August 1940

	Thickness (feet)	Depth (feet)
No samples .....	62	62
<b>In Pliocene to Recent (Undifferentiated):</b>		
Limestone: light-gray, dense (much calcitized), very sandy, sparsely phosphatic, fossiliferous (casts and impressions of megafossils) .....	13	75
Sand: fine-grained, finely disseminated phosphatic grains.....	10	85
Clay: gray, sandy, sparse finely disseminated phosphatic grains	15	100
Indurated sand: fine to medium-grained, somewhat argillaceous	25	125
No samples .....	25	150

**In Miocene (Undifferentiated):**

Clay: dark-green, blocky, sandy, phosphatic, cherty, (at cer- tain levels); interbedded tongues of sand, fine to coarse- grained, phosphatic; stringers of dolomitic limestone; light- brown, saccharoidal, sandy, phosphatic .....	214	364
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Dolomitic limestone prominent at 260-280.

Sand prominent at 304-364.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
No samples .....	62	62
In Pliocene to Recent (undifferentiated) .....	63	125
No samples .....	25	150
In Miocene (undifferentiated) .....	214	364

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	5	186
Sand: fine to coarse-grained .....	60	364

**Remarks:**

This well was reportedly drilled to a total depth of 705, hence doubtless utilizes the underlying "principal limestone aquifer."

**BROOKS COUNTY**

Location: 9 mi. west of Quitman  
 Owner: No. 1 M. G. Lawson  
 Driller: Winter Hardware Company  
 Drilled: March 1943

Well No.: GGS 3  
 Elev.: 130

	Thickness (feet)	Depth (feet)
No samples .....	10	10
<b>In Miocene (Undifferentiated):</b>		
Clay: mottled, very sandy .....	50	60
<b>Oligocene (Undifferentiated):</b>		
Limestone: white, dense (calcitized), nodular, fossiliferous .....	140	200
<i>Dictyoconus</i> <sup>1</sup> sp. at 160-180.		

**Summary:**

No samples .....	10	10
In Miocene (undifferentiated) .....	50	60
Oligocene (undifferentiated) .....	140	200

**Potential Water-Bearing Zones:**

Limestone .....	140	200
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<sup>1</sup>Reworked(?) fossil of middle Eocene age.

## BROOKS COUNTY

Location: 10 mi. southwest of Quitman  
 Owner: No. 1 H. R. Garrett  
 Driller: W. C. Littleton  
 Drilled: 1946

Well No.: GGS 21  
 Elev.: 117

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, with inclusions of kaolin; also clay, mottled to pale-green, sandy .....	85	85
<b>Miocene (Undifferentiated):</b>		
Clay: pale-green, sandy, phosphatic; interbedded at depth with limestone, white, sandy.....	90	175
Gray, polished, phosphatic pebbles at 85-100.		
<b>Oligocene (Undifferentiated):</b>		
Limestone: gray, dense (calcitized), nodular, fossiliferous.....	135	310
<i>Quinqueloculina</i> sp. at 175-185.		
<i>Rotalia byramensis</i> var. at 185-190.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 200-210.		
Dolomitic limestone, brown, saccharoidal, at 308-310.		

## Summary:

Pliocene to Recent (undifferentiated).....	85	85
Miocene (undifferentiated) .....	90	175
Oligocene (undifferentiated) .....	135	310

## Potential Water-Bearing Zones:

Limestone .....	135	310
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## BROOKS COUNTY

Location: Quitman  
 Owner: No. 1 Southside Consolidated School  
 Driller: Winter Hardware Company  
 Drilled: January 1942

Well No.: GGS 77  
 Elev.: 180<sup>2</sup>

	Thickness (feet)	Depth (feet)
No samples.....	10	10
<b>In Pliocene to Recent (Undifferentiated):</b>		
Clay: pale-green to tan, sandy .....	30	40

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

<sup>2</sup>Average elevation taken from State Highway map.

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: pale-green, sandy, phosphatic.....	80	120
White, phosphatic pebbles at 40-120.		

**Oligocene (Undifferentiated):**

Limestone: gray, dense (calcitized), nodular, fossiliferous.....	40	160
<i>Quinqueloculina</i> sp. at 120-140.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 140-160.		

**Summary:**

No samples .....	10	10
In Pliocene to Recent (undifferentiated).....	30	40
Miocene (undifferentiated) .....	80	120
Oligocene (undifferentiated) .....	40	160

**Potential Water-Bearing Zones:**

Limestone .....	40	160
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**BROOKS COUNTY**

Location: Barney

Well No.: GGS 87

Owner: No. 1 A. J. Folsom

Driller: Winter Hardware Company

Drilled: August 1942

	Thickness (feet)	Depth (feet)
No samples .....	10	10
<b>In Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained; inclusions of kaolin, white, sandy; some clay, light-gray.....	90	100
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-brown to pale-green; limestone, white, sandy; dolomitic limestone, brown, saccharoidal .....	120	220

**Summary:**

No samples .....	10	10
In Pliocene to Recent (undifferentiated).....	90	100
Miocene (undifferentiated) .....	120	220

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## Potential Water-Bearing Zones:

	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained.....	20	100
Limestone .....	60	200

## BROOKS COUNTY

Location: 2,780 ft. south, 1,570 ft. west of northeast corner  
of Land Lot 454, 12th Land District      Well No.: GGS 184  
Owner: No. 1-B E. M. Rogers, Sr.      Elev.: 133  
Driller: D. E. Hughes et al      (derrick floor)  
Drilled: April 1949

	Thickness (feet)	Depth (feet)
No samples .....	690	690

## In Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: cream, crystalline, much calcitized, somewhat  
granular (in texture), fossiliferous (macroshells, echinoid  
and bryozoan remains, and frequent Foraminifera)..... 190      885  
*Amphistegina pinarensis* var. at 730-740.  
*Camerina striatoreticulata* abundant at 830-840.

## Middle Eocene: Claiborne Group (Undifferentiated):

Limestone: cream, considerably calcitized, granular, cherty,  
coarsely glauconitic at certain levels..... 500      1,385

## Lower Eocene(?): Wilcox Group (Undifferentiated):

Sand: fine to medium-grained, glauconitic, micaceous, pyriti-  
ferous; interbedded clay, dark, grayish-green, micaceous,  
carbonaceous, laminated ..... 90      1,475  
Sand: coarse-grained, subangular, varicolored, grains of  
pale-green quartz at depth ..... 130      1,605

## Paleocene: Midway Group: Clayton Formation:

Limestone (or indurated sand): gray, very sandy, glauconitic  
(finely disseminated), fossiliferous (Foraminifera)..... 15      1,620  
*Operculinoides catenula* at 1620-1630.  
Indurated sand: gray, fine-grained, glauconitic (finely dis-  
seminated) ..... 90      1,710  
*Pseudophragmina stephensoni*, *Operculinoides catenula* at  
1630-1640.



	Thickness (feet)	Depth (feet)
Clay: dark-gray to black, fissile, carbonaceous, micaceous; interbedded limestone, gray, sandy, coarsely glauconitic .....	85	1,795
<i>Robulus midwayensis</i> at 1780-1790.		
Limestone: gray, rather dense, somewhat crystalline, sandy, coarsely glauconitic, fossiliferous .....	100	1,895
<i>Robulus pseudo-mamilligerus</i> at 1790-1800.		
Sand: fine to coarse-grained, angular .....	25	1,920
Marl: gray, somewhat indurated, chalky, fossiliferous (some Foraminifera); interbedded limestone, as above .....	300	2,220
<b>Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Marl: gray to brown at depth, chalky, glauconitic, sandy at various levels, micaceous, pyritiferous, fossiliferous (macroshells and Foraminifera at certain horizons) .....	785	3,005
Glauconite common at 2220-2230.		
<i>Globotruncana cretacea</i> , <i>Anomalina</i> sp. at 2230-2240.		
Sand: fine to medium-grained, indurated, micaceous, phosphatic, fossiliferous (macroshells); interbedded clay or shale, brown, micaceous, carbonaceous .....	130	3,135
<i>Vaginulina texana</i> at 3100-3110.		
<b>In Tuscaloosa Formation:</b>		
Sand: fine to medium-grained, glauconitic; interbedded clay or shale, dark-gray, fissile (splintery), carbonaceous, micaceous (finely disseminated) .....	190	3,325
Shale: dark-gray to black, carbonaceous, fissile, micaceous; interbedded sand, as above .....	155	3,480
Sand: fine to medium-grained, somewhat indurated, glauconitic ..	30	3,510
Shale: as above .....	33	3,543
Sand: fine to medium-grained, somewhat indurated, glauconitic; interbedded shale, as above .....	67	3,610

	Thickness (feet)	Depth (feet)
Sand: coarse-grained, angular, arkosic, glauconitic and finer-grained at certain levels; interbedded clay, green to tan to red (mottled), sandy, micaceous, sideritic at certain horizons	240	3,850
Sideritic nodules common at 3620-3630.		

**Summary:**

No samples .....	690	690
In upper Eocene (Ocala limestone) .....	195	885
Middle Eocene (Claiborne group, undifferentiated) .....	500	1,385
Lower Eocene (?) (Wilcox group, undifferentiated) .....	220	1,605
Paleocene (Clayton formation) .....	615	2,220
Upper Cretaceous (post-Tuscaloosa, undifferentiated) .....	915	3,135
Upper Cretaceous (In Tuscaloosa formation) .....	715	3,850

**Potential Water-Bearing Zones:**

Limestone .....	195	885
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**Remarks:**

All potential water-bearing sands below depth 1,385, probably carrying salt water, hence not suitable as sources of fresh water.

**BROOKS COUNTY**

Location: Quitman  
 Owner: City of Quitman  
 Driller: M. M. Gray  
 Drilled: 1955

Well No.: GGS 469  
 Elev.: 180<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay, mottled to pale-green to tan, sandy, limonitic; sand, fine to medium-grained; inclusions of kaolin, white, sandy, micaceous; some lignite .....	80	80
<b>In Miocene (Undifferentiated):</b>		
Clay: pale-green, sandy, cherty; limestone at depth, white, sandy, fossiliferous; dolomitic limestone, brown, saccharoidal .....	70	150

*Archaias* sp. at 100-130.

Dolomitic limestone at 130-150.

<sup>1</sup>Average elevation taken from State Highway map.

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: gray, dense (calcitized), nodular, fossiliferous.....	115	265
<i>Rotalia byramensis</i> var. at 150-160.		
<i>Dictyoconus</i> <sup>2</sup> sp. at 160-170.		
<i>Miliolidae</i> prominent at 190-200.		

**Upper Eocene(?): Jackson Group: Ocala Limestone:**

Dolomitic limestone: light-brown, saccharoidal.....	39	304
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**Summary:**

Pliocene to Recent (undifferentiated).....	80	80
In Miocene (undifferentiated).....	70	150
Oligocene (undifferentiated).....	115	265
Upper Eocene (?) (Ocala limestone).....	39	304

**Potential Water-Bearing Zones:**

Limestone .....	115	265
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**BRYAN COUNTY**

Location: 0.5 mi. east of intersection of U.S. Highway 17  
on Bryan Neck Road at Richmond Hill

Well No.: GGS 65  
Elev.: 14

Owner: Henry Ford  
Driller: W. E. Floyd, Jr.  
Drilled: May 1939

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, finely disseminated phosphatic grains; interbedded clay, dark-gray to tan to red (mottled), some- what fissile, lignitic, micaceous .....	30	30
Sand: fine to coarse-grained, arkosic.....	10	40
No samples .....	310	350

**In Miocene (Undifferentiated):**

Clay: dark-green, silty, phosphatic; limestone, white, very sandy, phosphatic .....	100	450
No samples .....	50	500

<sup>2</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, crystalline (much calcitized), fossiliferous, (abundant bryozoan remains and Foraminifera) .....	?	500
<i>Asterocyclina nassauensis, Pseudophragmina flintensis, Operculinoides floridensis</i> at 500.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	40	40
No samples .....	310	350
In Miocene (undifferentiated) .....	100	450
No samples .....	50	500
In upper Eocene (Ocala limestone) .....	?	500

**Potential Water-Bearing Zones:**

Limestone .....	?	500
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**BRYAN COUNTY**

Location: In Pembroke  
 Owner: No. 1 City of Pembroke  
 Driller: M. M. Gray Drilling Company  
 Drilled: 1955

Well No.: GGS 459  
 Elev.: 95

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, limonitic, arkosic; interbedded clay, bluish-gray to tan to red (mottled), sandy .....	30	30
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, somewhat indurated, blocky, sandy .....	10	40
Sand: very coarse-grained, arkosic .....	50	90
Clay: dark-green, sandy; interbedded sand, fine to coarse- grained, arkosic .....	40	130
Clay: dark-green, sandy, cherty .....	60	190
Black, phosphatic pebbles prominent at 180-190.		
Clay: as above; interbedded dolomitic limestone, light-brown, sandy, phosphatic; sand, fine to coarse-grained, phosphatic....	50	240

	Thickness (feet)	Depth (feet)
Clay and sand: as above; interbedded limestone, light-gray to white, very dense (much calcitized), sandy, phosphatic .....	110	350

Dark-green chert prominent at 260-270.

#### Oligocene (Undifferentiated):

Limestone: gray to cream at depth, dense (much calcitized), nodular, somewhat sandy, fossiliferous (casts and molds of megafossils and some Foraminifera) .....	40	390
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*Rotalia mexicana* var. at 350-360.

*Miliolidae* abundant 370-380.

#### Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: cream to white at depth, somewhat saccharoidal (much calcitized), fossiliferous (macroshells, bryozoan remains, and Foraminifera) .....	87	477
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Macroshells prominent at 390-400.

*Operculinoides floridensis* at 390-400.

*Asterocyclina nassauensis*, *Gypsina vesicularis* at 400-410.

*Pseudophragmina flintensis* at 420-430.

#### Summary:

Pliocene to Recent (undifferentiated) .....	30	30
Miocene (undifferentiated) .....	320	350
Oligocene (undifferentiated) .....	40	390
Upper Eocene (Ocala limestone).....	87	477

#### Potential Water-Bearing Zones:

Limestone .....	127	477
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#### BULLOCH COUNTY

Location: 3 mi. northeast of Statesboro, 0.1 mi. northwest of Highway 73 (Dover Road), at airfield  
 Well No.: GGS 81  
 Elev.: 171  
 Owner: No. 2 well at Airfield (City of Statesboro)  
 Driller: Stevens Southern Company  
 Drilled: November 1942

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: fine-grained to coarser-grained at depth; some clay, brick-red, sandy .....	80	80

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: gray to yellowish-green, fissile, sandy.....	20	100
Sand: fine to coarse-grained, arkosic; clay, as above, but phosphatic .....	40	140
Clay: dark-green, blocky, phosphatic; interbedded with tongues of sand, fine to coarse-grained, phosphatic .....	120	260
Black phosphatic pebbles abundant at 140-160.		
Clay: as above; interbedded limestone, light-gray, dense (much calcitized), sandy, phosphatic .....	20	280
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic .....	20	300

**Oligocene (Undifferentiated):**

Limestone: cream, massive (much calcitized), nodular, somewhat oolitic, fossiliferous (casts and molds of Gastropods and Foraminifera) .....	100	400
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*Rotalia mexicana* var., *Gypsina globula*<sup>1</sup> at 300-320.

*Lepidocyclina mantelli* at 340-360.

**Upper Eocene(?): Jackson Group: Ocala Limestone:**

Limestone: cream but somewhat whiter than above, granular, fossiliferous (Foraminifera) .....	20	420
<i>Gypsina globula</i> <sup>1</sup> at 400-420.		
No samples .....	20	440

**In Middle Eocene(?) (Undifferentiated):**

Indurated sand: fine to medium-grained, angular, fossiliferous (casts and molds of Pelecypods); some limestone (cave), as above .....	35	475
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**Summary:**

Pliocene to Recent (undifferentiated).....	80	80
Miocene (undifferentiated) .....	220	300
Oligocene (undifferentiated) .....	100	400
Upper Eocene (Ocala limestone).....	20	420
No samples .....	20	440
In middle Eocene(?) (undifferentiated).....	35	475

**Potential Water-Bearing Zones:**

Limestone .....	120	420
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<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## BULLOCH COUNTY

Location: Southwestern part of city, 0.5 mi. west of Central of Georgia R.R. in Statesboro  
 Well No.: GGS 378  
 Elev.: 219  
 Owner: City of Statesboro No. 3  
 Driller: Layne-Atlantic Company  
 Drilled: March 1954

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, coarser-grained at depth, arkosic, finely disseminated phosphatic grains .....	20	20
<b>Miocene (Undifferentiated):</b>		
Clay: yellowish-green, sandy, phosphatic at depth; interbedded sand, fine to coarse-grained, arkosic .....	185	205
First observed phosphatic pebbles at 175-185.		
Sand: fine to coarse-grained, phosphatic.....	80	285
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic, fossiliferous (macroshells) .....	40	325
Sand: fine to coarse-grained, phosphatic; interbedded dolomitic limestone, as above; limestone, gray, dense, sandy, phosphatic .....	40	365
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, massive (much calcitized) nodular, somewhat oolitic, cherty, fossiliferous (casts and molds of Gastropods and Foraminifera).....	60	425
<i>Rotalia mexicana</i> var. at 365-375.		
<i>Rotalia mexicana</i> var., <i>Gypsina globula</i> <sup>1</sup> at 375-385.		
Limestone: as above, but whiter in color.....	40	465
<b>In Upper Eocene(?): Jackson Group: Ocala Limestone:</b>		
Limestone: white to cream, rather massive, fossiliferous (some Foraminifera) .....	75	540
<i>Gypsina globula</i> common, <i>Lepidocyclina</i> sp. at 465-475.		
<i>Lepidocyclina</i> sp. common to abundant at 485-495.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Limestone: gray, extremely dense (highly calcitized), sandy, finely disseminated phosphatic grains, fossiliferous (casts and molds of megafossils and rare Foraminifera); interbedded clay, olive-green, sandy .....	85	625
Limestone: white, dense (much calcitized), sandy, sparsely glauconitic, fossiliferous (fragments and molds of megafossils); interbedded dolomitic limestone, dark-brown, saccharoidal, sandy .....	200	825
Dolomitic limestone: dark-brown, saccharoidal, coarsely but abundantly glauconitic .....	60	885
Marl: gray, somewhat sandy, glauconitic, fossiliferous (Foraminifera) .....	36	921
<i>Gyroidina soldanii</i> var., <i>Asterocyclina monticellensis</i> , <i>Lepidocyclina (Polylepidina) antillea</i> , <i>Cibicides mississippiensis</i> , <i>Cibicides westi</i> at 885-895.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	20	20
Miocene (undifferentiated) .....	345	365
Oligocene (undifferentiated) .....	100	465
In upper Eocene(?) (Ocala limestone) .....	75	540
Middle Eocene (Claiborne group, undifferentiated) .....	381	921

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	80	285
Limestone .....	175	540
Limestone <sup>1</sup> .....	285	825

**BULLOCH COUNTY**

Location:  
 Owner: No. 1 Willow Hill Elementary School  
 Driller: Layne-Atlantic Company  
 Drilled: September 1954

Well No.: GGS 430

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, arkosic; and some clay, bluish-gray to red (mottled), sandy .....	40	40

<sup>1</sup>Not a porous limestone, but should furnish some water.



	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: yellowish-green, sandy; interbedded sand, fine to coarse-grained .....	78	118
Sand: fine to coarse-grained; interbedded clay, green, sandy, phosphatic (at depth); thin tongues of limestone, white, sandy, phosphatic .....	230	348
Sand, fine to coarse-grained at 118-130.		
Sand, fine to coarse-grained at 135-150.		
Sand, fine to coarse-grained at 203-216.		
Sand, fine to coarse-grained at 223-250.		
Sand, fine to coarse-grained at 268-276.		
Sand, fine to coarse-grained at 282-340.		

**Oligocene (Undifferentiated):**

Limestone: dark-gray to pinkish to cream, massive, nodular (much calcitized), somewhat oolitic, cherty, fossiliferous (casts and molds of Gastropods and Foraminifera) .....	108	456
<i>Rotalia mexicana</i> var., <i>Asterigerina subacuta</i> at 350-360.		
<i>Operculinoides</i> sp. at 360-370.		
<i>Lepidocyclina</i> sp., <i>Asterocyclina</i> <sup>1</sup> sp. at 386-396.		
<i>Eponides byramensis</i> at 396-406.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	40	40
Miocene (undifferentiated) .....	308	348
Oligocene (undifferentiated) .....	108	456

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	12	130
Sand: fine to coarse-grained .....	15	150
Sand: fine to coarse-grained .....	13	216
Sand: fine to coarse-grained .....	27	250
Sand: fine to coarse-grained .....	8	276
Sand: fine to coarse-grained .....	58	340
Limestone .....	108	456

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## BULLOCH COUNTY

Well No.: GGS 432

## Location:

Owner: No. 1 Nevils Elementary School

Driller: Layne-Atlantic Company

Drilled: November 1954

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, arkosic; some clay, bluish-gray to tan to red (mottled), sandy, limonitic.....	20	20
<b>Miocene (Undifferentiated):</b>		
Clay: yellowish-green to purple, sandy.....	35	55
Clay: yellowish-green, sandy, cherty; interbedded sand, fine to coarse-grained, phosphatic .....	215	270
Brown phosphatic pebbles and pale-green chert prominent at 65-70.		
Fine to coarse-grained phosphatic sand at 85-105.		
Sand: fine to coarse-grained, phosphatic.....	40	310
Clay: dark-green, sandy, phosphatic; interbedded limestone, white, sandy .....	20	330
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic, fossiliferous (macroshells) .....	20	350
Clay: dark-green to gray, very sandy, phosphatic, fossiliferous (macroshells) .....	20	370
Limestone: light to dark-gray, extremely dense (much calcitized), very sandy, coarsely phosphatic, fossiliferous (fragments and casts of megafossils) .....	10	380
<b>Oligocene (Undifferentiated):</b>		
Limestone: pinkish to cream, very dense and massive (much calcitized), nodular, somewhat oolitic, cherty, fossiliferous (casts and molds of megafossils and some Foraminifera).....	80	460
<i>Asterocyclina</i> <sup>1</sup> sp., <i>Gypsina globula</i> <sup>1</sup> , <i>Pyrgo</i> sp., <i>Rotalia mexicana</i> var., at 380-385.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 395-400.		
<i>Asterocyclina</i> sp., <i>Operculinoides</i> <sup>1</sup> sp. at 415-420.		
<i>Argyrotheca</i> sp. at 435-455.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	20	20
Miocene (undifferentiated) .....	360	380
Oligocene (undifferentiated) .....	80	460

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	20	105
Sand: fine to coarse-grained .....	40	310
Limestone .....	80	460

**BULLOCH COUNTY**

Location: In Brooklet  
 Owner: No. 1 City of Brooklet  
 Driller: M. M. Gray Drilling Company  
 Drilled: 1957

Well No.: GGS 553  
 Elev.: 159<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, mottled, sandy .....	50	50
<b>Miocene (Undifferentiated):</b>		
Clay: pale, yellowish-green, sandy, phosphatic and fossiliferous at depth; interbedded sand, fine to coarse-grained, phosphatic .....	250	300
Limestone, white, sandy, phosphatic, with macroshells at 50-60. Black phosphatic pebbles common at 50-60. Macroshells prominent at 150-160.		
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic .....	10	310
No samples .....	15	325
<b>In Oligocene (Undifferentiated):</b>		
Limestone: cream, massive, somewhat granular and nodular, somewhat saccharoidal and whiter at depth, cherty, fossiliferous (casts and molds of Gastropods, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	140	465

<sup>1</sup>Average elevation taken from State Highway map.

	Thickness (feet)	Depth (feet)
<i>Pyrgo</i> sp., <i>Cibicides americanus</i> , <i>Cibicides lobatulus</i> , <i>Gypsina globula</i> <sup>2</sup> at 325-335.		
<i>Lepidocyclina</i> sp., <i>Dictyoconus</i> <sup>2</sup> sp., <i>Rotalia mexicana</i> var., <i>Asterigerina subacuta</i> , <i>Eponides byramensis</i> , <i>Quinqueloculina</i> sp. at 345-355.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: light-gray, somewhat calcitized, fossiliferous (abundant bryozoan remains and some Foraminifera) .....	50	515
<i>Robulus arcuato-striatus</i> var. <i>carolinianus</i> , <i>Frondicularia</i> sp., <i>Gypsina globula</i> , <i>Nonion planatus</i> , <i>Alabama obtusa</i> , <i>Eponides jacksonensis</i> , <i>Nodosaria fissicostata</i> , <i>Globorotalia cocoaensis</i> , <i>Planulina cocoaensis</i> at 465-475.		
<i>Operculinoides floridensis</i> at 485-495.		
<i>Planularia</i> sp. at 495-505.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	50	50
Miocene (undifferentiated) .....	260	310
No samples .....	15	325
In Oligocene (undifferentiated) .....	140	465
Upper Eocene (Ocala limestone) .....	50	515

**Potential Water-Bearing Zones:**

Limestone .....	190	515
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**BULLOCH COUNTY**

Location: In City of Portal  
 Owner: City of Portal  
 Driller: Layne-Atlantic Company  
 Drilled: 1959

Well No.: GGS 571  
 Elev.: 295<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: pale-yellowish-green with red streaks (mottled), very sandy, limonitic .....	36	36
Sand: medium to coarse-grained, subangular, arkosic .....	20	56
Clay: pale-yellowish-green to pale-brownish-gray, sandy .....	102	158

<sup>1</sup>Average elevation taken from State Highway map.

<sup>2</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Clay: as above, but much sandier.....	144	302
Clay: as above; some limestone, white, sandy .....	41	343
No samples .....	20	363
Sand: coarse-grained, subangular, phosphatic, fossiliferous (a coquina) .....	27	390

#### In Oligocene (Undifferentiated):

Limestone: cream, rather massive, somewhat nodular, fossiliferous (molds and impressions of Gastropods, bryozoan remains, and some Foraminifera) .....	54	444
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*Pyrgo* sp., *Rotalia mexicana* var. at 398-423.

*Gypsina globula*<sup>2</sup> at 423-444.

#### In Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: cream, much calcitized, somewhat granular, fossiliferous (bryozoan remains and some Foraminifera) .....	42	486
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*Lepidocyclina* sp., *Gypsina globula* at 444-465.

Limestone: white, calcitized, somewhat fossiliferous (bryozoan remains and some Foraminifera) .....	9	495
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#### Middle Eocene: Claiborne Group (Undifferentiated):

Limestone: light-gray, rather dense, much calcitized, crystalline, fossiliferous (bryozoan remains, some of which are impregnated with glauconite) .....	10	505
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Indurated sand: white to light-gray, fine-grained, fossiliferous (impressions and molds of megafossils) .....	21	526
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#### Summary:

Miocene (undifferentiated) .....	390	390
In Oligocene (undifferentiated).....	54	444
In upper Eocene (Ocala limestone).....	51	495
Middle Eocene (Claiborne group, undifferentiated).....	31	526

#### Potential Water-Bearing Zones:

Limestone .....	105	495
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<sup>2</sup>Reworked (?) fossil of middle Eocene age.

## BURKE COUNTY

Location: 0.25 mi. east McBean-Waynesboro Road, in ditch,  
south side of east-west improved road

Well No.: GGS 131  
Elev.: 129

Owner: No. 1 USGS Test Hole  
Driller: Scott Drilling Company  
Drilled: July 1946

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Sand: fine to coarse-grained, lime nodules; some clay, brick-red, sandy .....	30	30
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, arkosic, micaceous; interbedded kaolin, black to light-gray to white, somewhat sandy, micaceous .....	572	602
Kaolin, black to light-gray, lignitic, very micaceous at 30-75.		
Kaolin, gray to red (mottled), micaceous, sandy at 175-210.		
Kaolin, gray to red (mottled), sandy, micaceous at 495-505.		
Kaolin, gray to red (mottled), sandy, ferruginous, micaceous; some sand, coarse-grained at 585-602.		
<b>Basement Complex (Undifferentiated):</b>		
Clay: dark-green, highly micaceous, sericitic .....	18	620

## Summary:

Middle Eocene (Lisbon formation) .....	30	30
Upper Cretaceous (Tuscaloosa formation) .....	572	602
Basement complex (undifferentiated) .....	18	620

## Potential Water-Bearing Zones:

Sand: fine to coarse-grained .....	35	245
Sand: fine to coarse-grained .....	20	305
Sand: fine to coarse-grained .....	30	495
Sand: fine to coarse-grained .....	20	565

**BURKE COUNTY**

Location: 3 mi. north of Waynesboro on Briar Creek

Well No.: GGS 139

Owner: No. 1 John Thompson

Elev.: 199

Driller: J. Rowell

Drilled: August 1946

	Thickness (feet)	Depth (feet)
No samples .....	44	44

**In Middle Eocene: Claiborne Group (Undifferentiated):**

Limestone: light-gray, dense (much calcitized), sandy, somewhat carbonaceous, finely glauconitic, phosphatic, fossiliferous at depth (Ostracods, Foraminifera, and macroshells); interbedded marl, light-gray, glauconitic .....

	96	140
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Clay, light-gray, somewhat indurated, finely glauconitic, at 100-110.

Macroshells common at 120-140.

No samples .....	30	170
Sand: fine to coarse-grained, coarsely glauconitic.....	?	170

**Summary:**

No samples .....	44	44
In middle Eocene (Claiborne group, undifferentiated).....	126	170

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	30	140
Sand: fine to coarse-grained.....	?	170

**BURKE COUNTY**

Location: 2.5 mi. east of Greens Cut

Well No.: GGS 220

Owner: No. 3 well Three Creeks Oil Company

Drilled: May 1923

	Thickness (feet)	Depth (feet)
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**Residuum:**

Clay: reddish-brown, very sandy, limonitic; some residual limestone .....	30	30
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	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Limestone: white, dense, crystalline, sandy, sparsely phosphatic, fossiliferous (macroshells, echinoid and bryozoan remains, and some Foraminifera) .....	45	75
<i>Elphidium texanum</i> , <i>Nonion inexcavatus</i> , <i>Valvulineria jacksonensis</i> , <i>Cibicides americanus</i> var. <i>antiquus</i> at 30-75.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Marl: light-gray to pale, yellowish-green, sandy, limey, hard lime nodules, fossiliferous at certain levels (echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	54	129
<i>Spiroplectammina mississippiensis</i> var., <i>Textularia dibolensis</i> , <i>Nonion inexcavatus</i> , <i>Nonion advena</i> , <i>Discorbis georgiana</i> , <i>Siphonina claibornensis</i> , <i>Valvulineria danvillensis</i> var. <i>gyroidinoides</i> , <i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> , <i>Cibicides americanus</i> var. <i>antiquus</i> , <i>Cibicides danvillensis</i> at 116-118.		
Clay: dark-green, blocky, somewhat indurated and tough, sandy .....	16	145
Sand: fine to medium-grained; clay, light-gray to dark-brown, block, carbonaceous, finely disseminated flakes of mica .....	16	161
Clay: dark-brown to black, lignitic, micaceous, sandy, coarse grains of sand .....	25	186
Clay: as above, but light-gray, very sandy .....	9	195
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Sand: coarse-grained, angular, arkosic, many grains coated with white kaolin; interbedded clay (or kaolin), white to gray to red to purple (mottled), micaceous, somewhat sandy ..	644	839
Clay: light-gray to tan to olive-green to red (mottled), sideritic, micaceous, greasy; interbedded sand, very coarse-grained, angular, arkosic .....	86.7	925.7
<b>Summary:</b>		
Residuum .....	30	30
Upper Eocene (Barnwell formation) .....	45	75
Middle Eocene (Lisbon formation) .....	120	195
Upper Cretaceous (Tuscaloosa formation) .....	730.7	925.7



	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	3	129
Sand: fine to coarse-grained.....	13	208
Sand: fine to coarse-grained.....	13	312
Sand: fine to coarse-grained.....	25	356
Sand: fine to coarse-grained.....	23	421
Sand: fine to coarse-grained.....	34	538

**Remarks:**

Other water-bearing sands are present below depth of 538 (above), but samples are not of sufficient excellence to permit delineation.

**BURKE COUNTY**

Location: Approximately 2.5 mi. east of Greens Cut  
 Owner: No. 2 well Three Creeks Oil Company  
 Drilled: 1923

Well No.: GGS 316

	Thickness (feet)	Depth (feet)
No samples .....	128	128

**In Middle Eocene: Claiborne Group: Lisbon Formation:**

Marl: cream to pale yellowish-green, somewhat sandy, glauconitic, limey, with hard lime nodules, fossiliferous (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	62	190
<i>Nonion advena</i> , <i>Discorbis georgiana</i> , <i>Gyroidina soldanii</i> var., <i>Cibicides americanus</i> var. <i>antiquus</i> , <i>Cibicides pseudo-ungerianus</i> var., <i>Cibicides danvillensis</i> , <i>Cibicides westi</i> at 128-144.		
Sand: fine to coarse-grained, subangular, sparsely phosphatic.....	24	214
Sand: fine to coarse-grained, subrounded; clay, dark-green, somewhat indurated and fissile, micaceous; claystone, dark-brown, dense, cherty .....	8	222
Sand: as above; clay, dark-green to dark-brown to black, somewhat fissile, micaceous.....	56	278

**In Upper Cretaceous: Tuscaloosa Formation:**

Sand: fine to coarse-grained, subangular, arkosic, many grains coated with red clay .....	40	318
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	Thickness (feet)	Depth (feet)
Clay: black, fissile, lignitic, micaceous; sand, as above .....	2	320
Sand: fine to coarse-grained, subangular, abundantly limo- nitic .....	7	327
Sand: coarse-grained, subangular, arkosic; interbedded kao- lin, white, micaceous, sandy .....	35	362
Clay: light-gray to tan to red to purple (mottled), micaceous, sandy .....	53	415
No samples .....	613	1,028

**In Basement Complex (Undifferentiated):**

Crystalline rock: sand and clay; as above .....	3	1,031
Crystalline rock: as above .....	2	1,033?

**Summary:**

No samples .....	128	128
In middle Eocene (Lisbon formation) .....	150	278
In Upper Cretaceous (Tuscaloosa formation) .....	137	415
No samples .....	615	1,028
In basement complex (undifferentiated) .....	5	1,033?

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	44	234
Sand: fine to coarse-grained .....	40	318
Sand: fine to coarse-grained .....	35	362

**BURKE COUNTY**

Location: Near Midville  
 Owner: Midville Consolidated School  
 Driller: Virginia Supply and Well Company  
 Drilled: September 1954

Well No.: GGS 391  
 Elev.: 190

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: olive-green to tan to red (mottled), limonitic, sandy .....	8	8
Clay: red to purple (mottled), sandy .....	52	60

**Upper Eocene: Jackson Group: Barnwell Formation:**

Marl: yellowish-green to brown, carbonaceous, sandy; lime-  
 stone, white to yellow, rather dense, nodular, saccharoidal,

	Thickness (feet)	Depth (feet)
sandy, cherty, fossiliferous, (fragments and casts of megafossils, echinoid and bryozoan remains, and Foraminifera, latter at depth) .....	42	102
<i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Valvulineria jacksonensis</i> , <i>Discorbis assulata</i> , and <i>Cibicides lobatulus</i> at 78-102.		

**Middle Eocene: Claiborne Group: Lisbon Formation:**

Sand: fine to coarse-grained, subangular, sparsely phosphatic, with brown pebbles; limestone, pale, yellowish-green, dense, saccharoidal, sparsely phosphatic, sandy, fossiliferous (casts and molds of megafossils, echinoid and bryozoan remains) .....	108	210
Limestone: pale, yellowish-green, dense, very sandy, sparsely phosphatic, fossiliferous (casts and molds of megafossils) .....	40	250

**Summary:**

Miocene (undifferentiated) .....	60	60
Upper Eocene (Barnwell formation) .....	42	102
Middle Eocene (Lisbon formation) .....	148	250

**Potential Water-Bearing Zones:**

Sand .....	108	210
Limestone .....	40	250

**BURKE COUNTY**

Location: Near Girard  
 Owner: Girard Consolidated School  
 Driller: Virginia Supply and Well Co.  
 Drilled: September 1954

Well No.: GGS 392  
 Elev.: 230

	Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Clay: light to red (mottled), micaceous, very sandy .....	60	60
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**Upper Eocene: Jackson Group: Cooper Marl:**

Sand: fine to coarse-grained, subangular, micaceous; limestone, white, somewhat saccharoidal, dense, sandy, sparsely

	Thickness (feet)	Depth (feet)
phosphatic, fossiliferous (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	115	175

*Spiroplectammia mississippiensis*, *Nonion advena*, *Nonion inexcavatus*, *Elphidium texanum*, *Valvulineria jacksonensis*, *Discorbis globulo-spinosa*, *Discorbis assulata*, *Guttulina irregularis*, *Sigmomorphina semitecta* var., *Reussella oligo-cenica* at 103-137.

#### Summary:

Miocene (undifferentiated) .....	60	60
Upper Eocene (Cooper marl) .....	115	175

#### Potential Water-Bearing Zones:

Limestone .....	20	157
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#### BURKE COUNTY

Location: In Waynesboro  
 Owner: No. 1 W. A. Wilkins  
 Drilled: 1888

Well No.: GGS 520  
 Elev.: 280

	Thickness (feet)	Depth (feet)
No samples .....	40	40
<b>In Eocene (Undifferentiated):</b>		
Sand: fine-grained; clay, pink, sandy, micaceous .....	20	60
Sand: fine to medium-grained, angular, with inclusions of residual limestone .....	90	150
Sand: coarse-grained; limestone, white to gray, dense (much calcitized), sandy, fossiliferous (macroshells, and some bryozoan remains) .....	80	230
Sand: fine to medium-grained, sparsely phosphatic; marl, yellowish-green, somewhat indurated, silty, finely disseminated phosphatic grains, carbonaceous, micaceous .....	10	240
Marl: as above, but fossiliferous (Radiolaria, Ostracods, and Foraminifera) .....	50	290
<i>Cibicides americanus</i> var., <i>Cibicides</i> cf. <i>C. refulgens</i> at 240-290.		
Sand: fine-grained; marl, as above .....	20	310

	Thickness (feet)	Depth (feet)
Clay: yellowish-green, noncalcareous, somewhat indurated, carbonaceous, micaceous; some sand, coarse-grained, phosphatic .....	30	340
No samples .....	40	380

**In Upper Cretaceous<sup>1</sup>: Tuscaloosa Formation:**

Sand: coarse-grained, angular, grains that resemble rose quartz .....	30	410
Sand: fine to coarse-grained, arkosic; some clay or kaolin, gray to tan to red (mottled), sandy, micaceous.....	90	500
Clay: brick-red, sandy, micaceous.....	200	700

**Summary:**

No samples .....	40	40
In Eocene (undifferentiated).....	300	340
No samples .....	40	380
In Upper Cretaceous (Tuscaloosa formation).....	320	700

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	30	410
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**Remarks:**

Samples on this well of poor quality, hence it is not feasible to pick additional water-bearing sands below a depth of 410 feet.

**CALHOUN COUNTY**

Location: 200 ft. north of south line and 200 ft. east of west line of Land Lot 328, 4th Land District      Well No.: GGS 192  
 Owner: No. 1 J. W. West      Elev.: 349  
 Driller: Sowega Minerals Incorporated  
 Drilled: January 1950

	Thickness (feet)	Depth (feet)
No samples .....	400	400

**In Paleocene: Midway Group: Clayton Formation:**

Sand: medium to coarse-grained, angular, abundantly glauconitic; marl, gray, micaceous, carbonaceous; limestone, light-gray, sandy, glauconitic, fossiliferous (macroshells).....	40	440
<i>Robulus midwayensis</i> , <i>Anomalina midwayensis</i> at 410-420.		

<sup>1</sup>According to McCallie's log of this well (USGS, WSP 341, p. 167) probable top of Upper Cretaceous at 310.

	Thickness (feet)	Depth (feet)
Limestone: cream, nodular, fossiliferous (macroshells, bryozoan remains and Foraminifera) .....	120	560
<b>Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Sand <sup>1</sup> : fine to coarse-grained, angular grains .....	40	600
Marl: gray, silty, micaceous, glauconitic, fossiliferous (macroshells, Ostracods, and Foraminifera); interbedded sand, fine to medium-grained, angular, glauconitic, phosphatic, fossiliferous (macroshells at certain horizons) .....	1,420	2,020
<i>Guembelina</i> sp. at 650-660.		
<i>Anomalina pseudopapillosa</i> at 680-690.		
<i>Kyphopyxa christneri</i> at 1480-1510.		
<i>Vaginulina texana</i> at 1540-1570.		
Sand: fine to medium-grained, angular, glauconitic, micaceous, fossiliferous (macroshells) .....	82	2,102
Sand: fine to medium-grained, somewhat indurated, highly micaceous, phosphatic, fossiliferous (macroshells) .....	68	2,170
<b>Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, pale-green, micaceous, sandy .....	460	2,630
Clay, or shale: dark-gray to black, fissile, carbonaceous, micaceous (finely disseminated); interbedded sand, fine to medium-grained, angular, glauconitic, micaceous .....	178	2,808
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, pale-green, somewhat iron-stained, micaceous, sandy .....	112	<sup>2</sup> 2,920
<b>Summary:</b>		
No samples .....	400	400
In Paleocene (Clayton formation) .....	160	560
Upper Cretaceous (post-Tuscaloosa, undifferentiated) .....	1,610	2,170
Upper Cretaceous (Tuscaloosa formation) .....	750	<sup>2</sup> 2,920
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	120	560
Sand: fine to coarse-grained .....	40	600
Sand: fine to coarse-grained .....	80	950

<sup>1</sup>May represent basal Clayton formation.<sup>2</sup>Not reported below 2,920.

## CALHOUN COUNTY

Location: 6 ft. west and 15 ft. south of north footing of steel water tower in Arlington  
 Well No.: GGS 330  
 Elev.: 306  
 Owner: No. 2 City of Arlington  
 Driller: Layne-Atlantic Company  
 Drilled: January 1953

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: pale olive-green to tan to red to purple (mottled), very sandy, limonitic .....	125	125
Sand: fine to coarse-grained, angular .....	30	155
No samples .....	20	175

**In Middle Eocene: Claiborne Group (Undifferentiated):**

Sand: fine to coarse-grained, angular, somewhat phosphatic, fossiliferous (macroshells); interbedded marl, pale-green to light-gray, silty, carbonaceous, micaceous, fossiliferous (some Foraminifera); limestone, light-gray, dense, very sandy, glauconitic, fossiliferous (macroshells, some bryozoan remains, and Foraminifera) .....	185	360
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*Asterigerina lisbonensis* at 228-239.

*Discorbis yeguaensis* at 269-280.

Glauconite prominent at 341-351.

**Lower Eocene(?): Wilcox Group (Undifferentiated):**

Limestone: light-gray, dense, sandy, abundantly glauconitic .....	5	365
Clay: dark-gray, silty, carbonaceous, micaceous .....	17	382

**Summary:**

Residuum .....	155	155
No samples .....	20	175
In middle Eocene (Claiborne group, undifferentiated) .....	185	360
Lower Eocene (?) (Wilcox group, undifferentiated) .....	22	382

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	30	155
Sand: fine to coarse-grained .....	76	354

**Remarks:**

Additional aquifers, as for example the Clayton formation, occur in this area at depths lower than the total depth (382) of the above described well. Quality of samples on this well is poor; much better cuttings could have been collected. Moreover, the sands penetrated during drilling of this well were reported dry. This report is considered questionable. Many of these sands might have been sealed-off by mud during drilling, hence appeared to be dry when tested.

**CALHOUN COUNTY**

Location: 12 ft. north and 6 ft. west of southwest footing of water tower, ½ block north of Courthouse, west side of Highway 55, in Morgan  
 Well No.: GGS 331  
 Elev.: 252  
 Owner: No. 1 City of Morgan  
 Driller: Layne-Atlantic Company  
 Drilled: December 1952

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, subangular, limonitic; interbedded clay, light-gray with red streaks (somewhat mottled), sandy .....	4	4
Clay: light-gray to pale-brownish-green with tan to red streaks (mottled), very sandy, limonitic .....	20	24
<b>Upper Eocene(?): Jackson Group: Ocala Formation:</b>		
Limestone: white to cream, rather dense and massive, somewhat saccharoidal, sandy, fossiliferous (molluscan shells, bryozoan remains, and Foraminifera) .....	10	34
<i>Lepidocyclina</i> sp., <i>Camerina</i> sp. at 24-34.		

**In Middle Eocene: Claiborne Group: Lisbon Formation:**

Limestone: white to light-gray, dense, crystalline, coarsely but sparsely glauconitic, sandy, somewhat fossiliferous (molluscan shells, bryozoan remains, Ostracods, and Foraminifera); interbedded clay, light-gray, sandy, carbonaceous, micaceous; indurated sand or sandstone, pale-green, fine-grained, very dense, highly siliceous, micaceous, carbonaceous .....	81	115
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*Nonion advena*, *Cibicides pseudoungerianus* var., *Cibicides* cf. *C. westi* at 45-55.

*Cibicides westi* at 55-65.

*Asterigerina lisbonensis* common at 65-75.



	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, subangular, indurated and coarsely glauconitic at certain levels, sparsely phosphatic, fossiliferous at certain levels (fish teeth, molluscan shells, and Foraminifera); interbedded clay, light-gray to pale-green, silty, carbonaceous, micaceous, fossiliferous (Radiolaria, small molluscan shells and Foraminifera) .....	95	210
<i>Nonion advena</i> , <i>Discorbis</i> sp., <i>Gyroidina soldanii</i> var., <i>Valvulineria jacksonensis</i> var., <i>Cibicides danvillensis</i> (common), <i>Cibicides blanpiedi</i> at 115-125.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: light-gray to pale-brownish-green, somewhat laminated, silty, glauconitic, carbonaceous, micaceous, fossiliferous (Foraminifera) .....	25	235
<i>Spiroplectammina wilcoxensis</i> , <i>Discorbis midwayensis</i> , <i>Valvulineria wilcoxensis</i> , <i>Valvulineria scrobiculata</i> , <i>Anomalina acuta</i> at 210-215.		
Clay: dark-gray, silty, somewhat glauconitic, lignitic, micaceous, pyritiferous, fossiliferous (microfossils); interbedded limestone, white to light-gray, coarsely glauconitic, sandy, fossiliferous (macroshells, Ostracods and Foraminifera) .....	125	360
<b>In Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine to medium-grained, subangular, abundantly glauconitic, some coarse, subangular, pale-green grains; interbedded clay, light-gray, blocky, micaceous to black, somewhat laminated, finely micaceous, carbonaceous, fossiliferous (Ostracods and Foraminifera) .....	20	380
Indurated sand: light-gray, fine-grained, subangular, glauconitic (finely disseminated grains), micaceous, fossiliferous (macroshells, Ostracods, and Foraminifera); interbedded clay, dark-gray to black, laminated, silty, finely micaceous, carbonaceous .....	50	430
<i>Nodosaria affinis</i> , <i>Siphonina prima</i> , <i>Bulimina cacumenata</i> , <i>Sigmomorphina soldadoensis</i> , <i>Cibicides newmanae</i> , <i>Anomalina midwayensis</i> at 380-390.		
<i>Robulus midwayensis</i> , <i>Discorbis midwayensis</i> , <i>Eponides lotus</i> , <i>Bulimina cacumenata</i> (common), <i>Operculinoides cate-nula</i> (common), <i>Anomalina midwayensis</i> at 390-400.		

	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
<i>Guembelina</i> sp., <i>Globotruncana</i> sp., <i>Anomalina pseudopapillosa</i> 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 Well No.: GGS 353  
Seaboard Air Line RR., 30 ft. east of reservoir in Edison Elev.: 312

Owner: No. 2 City of Edison  
Driller: Layne-Atlantic Company  
Drilled: July 1955

	Thickness (feet)	Depth (feet)
No samples .....	15	15
<b>In Residuum:</b>		
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
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
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
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, subangular, sparsely phosphatic; interbedded clay, gray to yellowish-green, sandy, carbonaceous, micaceous .....	70	175
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
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
<b>Paleocene: Midway Group: Clayton Formation:</b>		
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
<i>Operculinoides catenula</i> at 340-390.		
Limestone: white, gray at depth, dense, crystalline, sandy, fossiliferous (megafossils, bryozoan remains, and Foraminifera) .....	115	505
<i>Operculinoides catenula</i> 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  
 Owner: St. Marys Kraft Corporation  
 Driller: Layne-Atlantic Company

Well No.: GGS 54  
 Elev.: 13

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
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), some- what saccharoidal, sandy, sparsely phosphatic, fossilifer- ous (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
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	Thickness (feet)	Depth (feet)
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic .....	20	350
Sand: fine to coarse-grained, phosphatic; dolomitic limestone (cave) as above .....	20	370
Clay: green, sandy, phosphatic, fossiliferous (macroshells); interbedded limestone, white, dense (much calcitized), sandy, phosphatic, fossiliferous (macroshells) .....	100	470
Dolomitic limestone: brown, saccharoidal, sandy, phosphatic; sand, fine to medium-grained, phosphatic .....	20	490
Clay: dark-green, sandy, coarsely phosphatic .....	50	540

**Oligocene (Undifferentiated):**

Limestone: light-gray to white, dense (much calcitized), massive, fossiliferous (molds and fragments of megafossils and bryozoan remains, and some Foraminifera) .....	20	560
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*Discorbis subaraucana*, *Siphonina advena* at 540.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: as above; interbedded dolomitic limestone, brown, saccharoidal .....	356	916
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*Operculinoides* sp. at 560.

*Pseudophragmina flintentis* at 600.

**Middle Eocene: Claiborne Group (Undifferentiated):**

Limestone: as above; interbedded dolomitic limestone, dark-brown, saccharoidal .....	144	1,060
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**Summary:**

Pliocene to Recent (undifferentiated) .....	170	170
Miocene (undifferentiated) .....	370	540
Oligocene (undifferentiated) .....	20	560
Upper Eocene (Ocala limestone) .....	356	916
Middle Eocene (Claiborne group, undifferentiated) .....	144	1,060

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	63	170
Sand: fine to coarse-grained .....	20	370
Sand: fine to coarse-grained .....	10	490
Limestone .....	320	860

## CAMDEN COUNTY

Location: St. Marys  
 Owner: No. 5 St. Marys Kraft Corporation  
 Driller: Layne-Atlantic Company  
 Drilled: October 1953

Well No.: GGS 364  
 Elev.: 11

	Thickness (feet)	Depth (feet)
<b>Miocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, finely phosphatic .....	25	25
Clay: dark-gray, sandy, micaceous, carbonaceous, fossiliferous (macroshells) .....	17	42
Sand: fine to coarse-grained .....	24	66
Limestone: gray to light-brown, dense (much calcitized), somewhat dolomitized, sandy, finely but sparsely phosphatic, fossiliferous (molds and impressions of megafossils) ..	54	120
Sand: coarse-grained (up to size of gravel), coarsely phosphatic; fragments of limestone as above .....	210	330
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; some coarse, gravelly sand as above .....	38	368
Clay: dark-green, sandy; much cave from above .....	42	410
Sand: fine to coarse-grained, phosphatic; interbedded limestone, white, dense (much calcitized), sandy, phosphatic, fossiliferous (macroshells); some dolomitic limestone .....	98	508
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, very dense (highly calcitized), nodular, saccharoidal, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	22	530
<i>Asterigerina</i> sp., <i>Siphonina advena</i> , <i>Discorbis assulata</i> , <i>Cibicides mississippiensis</i> at 508-530.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: as above; interbedded dolomitic limestone at depth .....	423	953
<i>Operculinoides</i> sp., <i>Gypsina globula</i> at 530-552.		

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Limestone as above; interbedded dolomitic limestone .....	237	1,190
<i>Dictyoconus</i> sp. at 953-983.		

**Summary:**

Miocene to Recent (undifferentiated) .....	508	508
Oligocene (undifferentiated) .....	22	530
Upper Eocene (Ocala limestone) .....	423	953
Middle Eocene (Claiborne group, undifferentiated).....	237	1,190

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	24	66
Sand: coarse-grained (up to gravel size) .....	100	220
Sand: fine to coarse-grained .....	40	450
Limestone .....	373	823

**Remarks:**

Samples of poor quality.

**CAMDEN COUNTY**

Location: St. Marys  
 Owner: No. 4 St. Marys Kraft Corporation  
 Driller: Layne-Atlantic Company  
 Drilled: October 1953

Well No.: GGS 365  
 Elev.: 14<sup>1</sup>

	Thickness (feet)	Depth (feet)
No samples .....	65	65

**In Pliocene to Recent (Undifferentiated):**

Limestone: dark-brownish-gray, saccharoidal, massive, sandy, sparsely phosphatic, fossiliferous (molds and impressions of megafossils) .....	27	92
Sand: fine-grained, subangular to subrounded; some limestone, as above .....	20	112
Dolomitic limestone: white, saccharoidal, sandy, coarse-subrounded grains of sand and some coarse-grained, jet-black phosphatic grains; fragments of clay, dark-green, sandy.....	11	123

<sup>1</sup>Average elevation taken from State Highway map.

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Lithology as above but with more clay, dark-green, sandy .....	31	154
Clay: dark-green, sandy .....	182	336
Clay: as above; dolomitic limestone, brown, saccharoidal, sandy, phosphatic .....	122	458
Lithology as above; fragments of indurated sand, fine to medium-grained, subrounded, fossiliferous (a coquina); fragments of limestone, white, sandy, phosphatic, fossili- ferous (macroshells and bryozoan remains) .....	51	509

**Oligocene (Undifferentiated):**

Limestone: light-gray to cream at depth, nodular, somewhat saccharoidal, fossiliferous (molds, impressions, and frag- ments of megafossils, bryozoan remains, and some Fora- minifera) .....	10	519
<i>Asterigerina</i> sp., <i>Siphonina advena</i> , <i>Discorbis subaraucana</i> , <i>Cibicides locatulus</i> , <i>Cibicides mississippiensis</i> at 509-515.		
No samples .....	36	555

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone as above; interbedded dolomitic limestone, brown, saccharoidal .....	331	886
<i>Gypsina globula</i> at 555-582.		
No samples .....	30	916

**In Middle Eocene: Claiborne Group (Undifferentiated):**

Limestone as above; interbedded dolomitic limestone, dark- brown, saccharoidal .....	304	1,220
<i>Dictyoconus</i> sp. and abundant <i>Miliolidae</i> at 916-966.		

**Summary:**

No samples .....	65	65
In Pliocene to Recent (undifferentiated) .....	58	123
Miocene (undifferentiated) .....	386	509
Oligocene (undifferentiated) .....	10	519
No samples .....	36	555
In upper Eocene (Ocala limestone) .....	331	886
No samples .....	30	916
In middle Eocene (Claiborne group, undifferentiated) .....	304	1,220



	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	316	825

**CAMDEN COUNTY**

Location: 0.75 to 1 mi. east of Tarboro on Whiteoak Road      Well No.: GGS 455  
 Owner: No. 1 Tarboro Elementary School                      Elev.: 14<sup>1</sup>  
 Driller: Woodrow Sapp  
 Drilled: October 1955

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, finely disseminated phosphatic grains; interbedded clay, dark-gray, silty, lignitic, micaceous .....	55	55
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic; interbedded sand, fine to coarse-grained phosphatic .....	145	200
Dolomitic limestone: light-brown, saccharoidal, sandy, phos- phatic; some sand as above.....	40	240
Clay: dark-green, sandy, phosphatic; interbedded dolomitic limestone as above .....	50	290
Clay: as above but sandier and somewhat indurated; inter- bedded limestone, white, dense (much calcitized), sandy, phosphatic, fossiliferous (macroshells) .....	20	310
Dolomitic limestone: brown, saccharoidal, sandy, phosphatic ...	10	320
Limestone: white, dense (much calcitized), very sandy, phos- phatic, fossiliferous (molds, impressions, and fragments of macroshells); interbedded sand, fine to coarse-grained, phosphatic .....	110	430
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	55	55
Miocene (undifferentiated) .....	375	430

<sup>1</sup>Average elevation taken from State Highway map.

## Potential Water-Bearing Zones:

	Thickness (feet)	Depth (feet)
Sand: fine to very coarse-grained .....	10	200
Sand: fine to coarse-grained .....	10	340
Limestone and sand .....	90	430

## CANDLER COUNTY

Location: Near Metter  
 Owner: No. 1 Carl Daughtry  
 Driller: Layne-Atlantic Company  
 Drilled: 1955

Well No.: GGS 429  
 Elev.: 225

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, arkosic; some clay, bluish-gray to tan to red (mottled), sandy, limonitic .....	35	35
Clay: yellowish-green, sandy; interbedded sand, fine to coarse-grained, arkosic .....	60	95
Clay: dark-green to gray, sandy, phosphatic; interbedded sand, fine to coarse-grained, phosphatic .....	100	195
Light-brown to gray, phosphatic pebbles prominent at 95-105.		
Clay: dark-green, sandy, phosphatic; interbedded limestone, gray, dense, sandy, fossiliferous (macroshells) .....	35	230
Indurated sand: gray, phosphatic, fossiliferous (a coquina) .....	10	240
Dolomitic limestone: light-brown, sandy, phosphatic .....	10	250
Sand: fine to coarse-grained, phosphatic .....	20	270
Clay: gray, sandy, phosphatic .....	20	290
Limestone: dark-gray, extremely dense (much calcitized), very sandy, phosphatic, fossiliferous (megafossils) .....	30	320
No samples .....	10	330

## In Oligocene (Undifferentiated):

Limestone: light-gray, dense, massive, crystalline, fossiliferous (some macroshells, echinoid and bryozoan remains, and Foraminifera) .....	40	370
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	Thickness (feet)	Depth (feet)
<i>Rotalia mexicana</i> var., <i>Camerina</i> sp., <i>Quinqueloculina</i> sp. at 330-340.		
Limestone: cream, rather soft and chalky, fossiliferous (as above) .....	65	435
No samples .....	20	455

#### In Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: cream, soft, chalky, somewhat granular, fossili- ferous (some echinoid and bryozoan remains, and Fora- minifera) .....	122	577
<i>Robulus arcuato-striatus</i> var., <i>Eponides jacksonensis</i> , <i>Non- ion planatus</i> , <i>Siphonina jacksonensis</i> , <i>Gypsina globula</i> , <i>Lepidocyclina</i> sp. at 455-475.		

#### Summary:

Miocene (undifferentiated) .....	320	320
No samples .....	10	330
In Oligocene (undifferentiated) .....	105	435
No samples .....	20	455
In upper Eocene (Ocala limestone) .....	122	577

#### Potential Water-Bearing Zones:

Sand: fine to coarse-grained .....	20	270
Limestone .....	207	577

#### Remarks:

Top of Ocala limestone may be in "soft limestone" at 370-435. However, no fossils of upper Eocene age were recovered at this depth.

#### CANDLER COUNTY

Location: Approximately 4 mi. northeast of Metter	Well No.: GGS 574
Owner: No. 1 J. O. Rocker	Elev.: 260
Driller: Turner Well Drilling Company	
Drilled: May 1959	

#### Miocene (Undifferentiated):

Clay: pale-greenish-gray with red to purple streaks (mot- tled), sandy, limonitic .....	43	43
Sand: fine to coarse-grained, subangular, arkosic .....	21	64

	Thickness (feet)	Depth (feet)
Clay: pale-yellowish-green to brownish-gray, blocky, sandy .....	80	144
Clay: as above but much sandier .....	61	205
Clay: dark-greenish-gray, somewhat indurated, tough, sandy, phosphatic, fossiliferous at depth; interbedded limestone, white, rather dense, sandy .....	120	325
Macroshells and phosphatic pebbles prominent at 246-265.		
Indurated sand, changing at depth to a sandy limestone: light-gray, fine-grained, dense, phosphatic, fossiliferous (a coquina with macroshells and Foraminifera) .....	20	345
<i>Archaias</i> sp. at 328-349.		

**Oligocene (Undifferentiated):**

Limestone: cream, massive, nodular, fossiliferous (chiefly Gastropods, bryozoan remains and some Foraminifera).....	85	430
<i>Asterigerina</i> sp., <i>Rotalia mexicana</i> var. at 349-369.		
<i>Lepidocyclina</i> <sup>1</sup> sp., <i>Gypsina globula</i> <sup>1</sup> , <i>Operculinoides</i> <sup>1</sup> sp. at 369-388.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, softer than above, somewhat granular and loosely consolidated, much calcitized, fossiliferous (some macroshells, bryozoan remains and Foraminifera).....	41	471
<i>Robulus limbosus</i> var., <i>Robulus arcuato-striatus</i> , <i>Eponides jacksonensis</i> , <i>Siphonina jacksonensis</i> , <i>Nonion planatus</i> , <i>Gypsina globula</i> (common) at 451-471.		

**Summary:**

Miocene (undifferentiated) .....	345	345
Oligocene (undifferentiated) .....	85	430
Upper Eocene (Ocala limestone) .....	41	471

**Potential Water-Bearing Zones:**

Limestone .....	126	471
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<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## CANDLER COUNTY

Location: Approximately 9 mi. northwest of Metter  
 Owner: No. 1 J. A. Durdon  
 Operator: Turner Well Drilling Company  
 Drilled: August 1959

Well No.: GGS 581  
 Elev.: 275

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: yellowish-green to purple (mottled), very sandy, limonitic; sand, coarse-grained, subrounded, arkosic .....	22	22
Sand: coarse-grained, subrounded, arkosic .....	20	42
Clay: pale-yellowish-green to greenish-gray but dark olive-green at depth, blocky, sandy .....	101	143
Sand: coarse-grained, subrounded, arkosic .....	20	163
Sand: fine-grained, subrounded; interbedded clay, yellowish-green, rather tough, sandy .....	21	184
Clay: greenish-gray to pale-yellowish-green at depth, sandy; interbedded limestone, cream, sandy, rather dense, fossiliferous at depth (macroshells); sand, fine-grained, subrounded, light-gray, rounded phosphatic pebbles .....	82	266
Limestone: as above; interbedded siltstone, light-brown to brownish-gray, very dense, highly siliceous; indurated sand, fine to medium-grained, subrounded, rather dense, crystalline, fossiliferous (some macroshells) .....	30	296

**In Oligocene (Undifferentiated):**

Limestone: cream, much leached, rather soft, loosely cemented, cherty at depth, fossiliferous (echinoid and bryozoan remains, some Ostracods and Foraminifera) .....	93	389
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*Rotalia mexicana* var. at 296-307.

*Quinqueloculina* sp., *Nonionella oligocenica*, *Reussella oligocenica*, *Discorbis* cf. *D. tentoria*, *Nonion advena*, *Rotalia mexicana* var., *Cibicides lobatulus*, *Cibicides americanus* var. at 307-327.

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, granular (in texture), rather loosely consolidated <sup>1</sup> , fossiliferous (abundant bryozoan remains <sup>2</sup> and rare Foraminifera) .....	21	410
<i>Operculinoides</i> sp. (rare) at 389-410.		
Limestone: cream, firmly consolidated (as compared to limestone above), fossiliferous (abundant bryozoan remains) .....	20	430

**Summary:**

Miocene (undifferentiated) .....	296	296
In Oligocene (undifferentiated) .....	93	389
Upper Eocene (Ocala limestone) .....	41	430

**Potential Water-Bearing Zones:**

Sand: coarse-grained .....	20	163
Limestone: cream, rather porous .....	20	430

**CANDLER COUNTY**

Location: Northeast of Metter, approximately 1 mi. east of Highway 23  
 Owner: No. 1 Josh Durdon  
 Operator: Turner Well Drilling Company  
 Drilled: August 1959

Well No.: GGS 582  
 Elev.: 310

	Thickness (feet)	Depth (feet)
No samples .....	22	22
<b>In Miocene (Undifferentiated):</b>		
Clay: yellowish to olive-green to greenish-gray, somewhat blocky, sandy, cherty and phosphatic at depth; interbedded sand, fine to coarse-grained, subangular, arkosic, phosphatic at depth .....	346	368
Black, polished phosphatic pebbles prominent at 245-266.		
Marl: dark-gray, silty, micaceous, fossiliferous (macroshells) .....	21	389

<sup>1</sup>Representative of inner lagoon (post barrier reef) deposits.

<sup>2</sup>Consisting of approximately 98 percent bryozoan remains.

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray to cream, nodular, rather massive, somewhat sandy, fossiliferous (macroshells, some bryozoan remains, and Foraminifera) .....	41	430
<i>Pyrgo</i> sp., <i>Eponides</i> sp., <i>Asterigerina subacuta</i> at 389-403.		
Casts and molds of megafossils, particularly of Gastropods prominent at 403-410.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, soft, granular, fossiliferous (bryozoan remains and abundant "larger Foraminifera") .....	20	450
<i>Gypsina globula</i> , <i>Reussella eocena</i> , <i>Eponides jacksonensis</i> , <i>Lepidocyclina</i> sp. abundant at 430-450.		

**Summary:**

No samples .....	22	22
In Miocene (undifferentiated) .....	367	389
Oligocene (undifferentiated) .....	41	430
Upper Eocene (Ocala limestone) .....	20	450

**Potential Water-Bearing Zones:**

Limestone .....	61	450
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**CHARLTON COUNTY**

Location: 21 mi. west of Folkston on Jones Island, Okefenokee Swamp  
 Well No.: GGS 93  
 Elev.: 120  
 Owner: No. 1 U. S. Biological Survey  
 Driller: Virginia Supply and Well Company  
 Drilled: November 1939

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, finely disseminated phosphatic grains; interbedded clay, dark-gray, sandy, lignitic, micaceous .....	30	30
Limestone: dark-gray, somewhat argillaceous .....	9	39
Clay: light-gray, very sandy, phosphatic .....	11	50

	Thickness (feet)	Depth (feet)
Limestone: light-gray, dense (much calcitized), very sandy, fossiliferous (casts and impressions of megafossils).....	10	60
Sand: fine-grained, somewhat argillaceous, sparsely phosphatic	22	82

**Miocene (Undifferentiated):**

Clay: dark-green, blocky, sandy, phosphatic; interbedded sand, fine to coarse-grained, phosphatic; dolomitic limestone, light-brown, sandy, phosphatic.....	188	270
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Dolomitic limestone prominent at 139-155 and 220-228.

Sand prominent at 263-270.

**Summary:**

Pliocene to Recent (undifferentiated) .....	82	82
Miocene (undifferentiated) .....	188	270

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	7	270
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**CHARLTON COUNTY**

Location: 1.25 mi. southwest of Atlantic Coast Line  
R.R. depot in Folkston  
Owner: No. 1 State Prison Camp (Folkston)  
Driller: Gray Well and Pump Corporation  
Drilled: January 1941

Well No.: GGS 185  
Elev.: 75

	Thickness (feet)	Depth (feet)
No samples .....	90	90

**In Pliocene to Recent (Undifferentiated):**

Limestone: gray, dense (highly calcitized), saccharoidal, sandy, sparsely but finely phosphatic, fossiliferous (molds and impressions of megafossils).....	10	100
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**Miocene (Undifferentiated):**

Sand: fine to coarse-grained, abundantly phosphatic; clay, dark-green, somewhat indurated, fossiliferous (some Fora- minifera) .....	25	125
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*Rotalia beccarii* var. at 118.



	Thickness (feet)	Depth (feet)
Clay: dark-green, partially indurated, fossiliferous (macroshells, Ostracods, and Foraminifera).....	110	235
Sand: fine to coarse-grained, abundantly phosphatic .....	23	258
Clay: dark-green, silty, cherty .....	28	286
Dolomitic limestone: light-brown, dense (highly calcitized), sandy, coarsely phosphatic .....	21	307
Sand: fine to coarse-grained, abundantly phosphatic .....	90	397
Clay: green, sandy, phosphatic, sandier at depth.....	48	455
Limestone; white, sandy at 435-445.		
No samples .....	72	517

#### In Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: cream to light-gray, dense (much calcitized), fossiliferous (fragments of bryozoan remains, macroshells, Ostracods, and Foraminifera).....	37	554
<i>Operculinoides</i> cf. <i>O. floridensis</i> at 517-526.		

#### Summary:

No samples .....	90	90
In Pliocene to Recent (undifferentiated) .....	10	100
Miocene (undifferentiated) .....	345	445
No samples .....	72	517
In upper Eocene (Ocala limestone) .....	37	554

#### Potential Water-Bearing Zones:

Sand: fine to coarse-grained, phosphatic .....	90	397
Limestone .....	34	554

#### CHARLTON COUNTY

Location: In Folkston

Well No.: GGS 453

Owner: No. 1 Folkston Elementary and High School

Elev.: 80<sup>1</sup>

Driller: M. M. Gray

Drilled: 1955

	Thickness (feet)	Depth (feet)
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#### Pliocene to Recent (Undifferentiated):

Sand: fine-grained to coarser-grained at depth, finely disseminated phosphatic grains and inclusions of kaolin; interbedded clay, dark-gray, silty, carbonaceous, micaceous.....	60	60
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<sup>1</sup>Average elevation taken from State Highway map.

	Thickness (feet)	Depth (feet)
Limestone: light-gray to brown, dense, saccharoidal, sandy; interbedded clay, dark-green, somewhat indurated, fossiliferous (some Ostracods and Foraminifera).....	60	120

*Rotalia beccarii* var. at 60-70.

#### Miocene (Undifferentiated):

Clay: light-gray to pale-green, sandy, sparsely phosphatic .....	40	160
Sand: fine to coarse-grained; dolomitic limestone, light-brown, saccharoidal (much calcitized), sandy, coarsely phosphatic.....	150	310
Clay: dark-green, sandy .....	30	340
Dolomitic limestone: light-brown, saccharoidal, sandy, coarsely phosphatic, cherty .....	40	380
Sand: fine to coarse-grained .....	15	395
Clay: dark-green, silty; siltstone, light-brown, indurated, sandy, phosphatic .....	25	420
Dolomitic limestone: light-brown, saccharoidal, very sandy, coarsely phosphatic .....	50	470
Clay: dark-green, sandy, cherty .....	30	500
Sand: fine to coarse-grained, phosphatic .....	20	520

#### Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: cream, dense (much calcitized), sandy (at top of section), fossiliferous (bryozoan remains, Ostracods, and Foraminifera) .....	130	650
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*Operculinoides* sp. at 520-530.

#### Summary:

Pliocene to Recent (undifferentiated) .....	120	120
Miocene (undifferentiated) .....	400	520
Upper Eocene (Ocala limestone) .....	130	650

#### Potential Water-Bearing Zones:

Sand: fine to coarse-grained .....	20	520
Limestone .....	130	650

## CHATHAM COUNTY

Location: Tybee Island, about 0.25 mi. N. 70° E. of Well No.: GGS 1  
 lighthouse at Fort Screven Elev.: 14  
 Owner: U. S. Government (War Department)  
 Driller: Layne-Atlantic Company  
 Drilled: September 1942

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, subangular, cherty, somewhat micaceous.....	32	32
Sand: fine to coarse-grained, subangular, sparsely phosphatic, fossiliferous (a few fragments of molluscan shells) .....	58	90
Sand: coarse-grained, subangular to subrounded, abundantly phosphatic, fossiliferous (molluscan shells).....	13	103
<b>Miocene (Undifferentiated):</b>		
Clay: pale-brownish-gray, blocky, sandy, phosphatic .....	55	158
Limestone: white, very sandy, phosphatic, fossiliferous (molds of molluscan shells).....	22	180
<b>Oligocene (Undifferentiated):</b>		
Limestone: light gray, sandy, somewhat nodular, sparsely phosphatic, fossiliferous (molds of molluscan shells and Foraminifera) .....	40	220
<i>Quinqueloculina</i> sp., <i>Lepidocyclina</i> sp., <i>Gypsina globula</i> at 180-220.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, crystalline (in texture), much calcitized and fossiliferous (abundant bryozoan remains and Foraminifera) .....	195	415
<i>Operculinoides floridensis</i> , <i>Asterocyclina nassauensis</i> , <i>Robulus alato-limbatus</i> , <i>Planularia</i> sp., <i>Saracenaria</i> sp., <i>Siphonina jacksonensis</i> at 220-250.		
<i>Eponides cocoaensis</i> , <i>Asterocyclina nassauensis</i> , <i>Operculinoides floridensis</i> , <i>Planulina cocoaensis</i> , <i>Pseudophragmina flintensis</i> , <i>Gypsina vesicularis</i> , <i>Nodosaria latejugata</i> var., <i>Nonion</i> cf. <i>N. planatus</i> at 250-380.		

	Thickness (feet)	Depth (feet)
Limestone: cream, granular (in texture), much calcitized, fossiliferous (Foraminifera) .....	195	610

*Camerina striatoreticulata* at 430-460.

*Operculina mariannensis* at 490-520.

Glauconite-impregnated Foraminifera prominent at 580-610.

*Lepidocyclina (Polylepidina) antillea?* at 580-610.

#### Summary:

Pliocene to Recent (undifferentiated) .....	103	103
Miocene (undifferentiated) .....	77	180
Oligocene (undifferentiated) .....	40	220
Upper Eocene (Ocala limestone) .....	390	610

#### CHATHAM COUNTY

Location: 2.4 mi. east of City Hall, Savannah  
 Owner: No. 1 Southeastern Shipyards  
 Driller: Layne-Atlantic Company  
 Drilled: June 1941

Well No.: GGS 35  
 Elev.: 9

	Thickness (feet)	Depth (feet)
No samples .....	20	20
<b>In Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, angular, arkosic; clay, dark-gray, silty, lignitic, micaceous.....	10	10
Sand: fine to medium-grained, angular, arkosic .....	30	60
Sand: as above, but coarse-grained, subrounded.....	12	72
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic (at depth) .....	133	205
No samples .....	3	208
Limestone: light-gray, dense, sandy, phosphatic; dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic.....	?	208
No samples .....	20	228

	Thickness (feet)	Depth (feet)
<b>In Oligocene (Undifferentiated):</b>		
Limestone: light-gray, dense (much calcitized), nodular, fossiliferous (some echinoid and bryozoan remains and Foramsiliferous (bryozoan remains and Foraminifera) .....	?	300
<i>Quinqueloculina</i> sp., <i>Elphidium</i> sp. at 228.		
<i>Textularia</i> sp., <i>Nonionella hantkeni</i> var. at 248.		
No samples .....	52	300
Limestone: cream, crystalline (much calcitized), nodular, fossiliferous (bryozoan remains and frequent Foraminifera).....	?	300
<i>Quinqueloculina</i> sp., <i>Discorbis?</i> sp., <i>Rotalia</i> sp. at 300.		
No samples .....	20	320
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream to light-gray, massive, saccharoidal (highly calcitized), nodular, fossiliferous (abundant bryozoan remains, echinoid spines, and some Foraminifera).....	35	355
<i>Operculinoides</i> sp. at 320.		
<i>Robulus alato-limbatus</i> at 355.		
No samples .....	17	372
Limestone: white, crystalline (in texture), much calcitized, fossiliferous (abundant bryozoan remains and some Foraminifera) .....	30	402
<i>Asterocyclina nassauensis</i> at 372.		
No samples .....	123	525
Limestone: cream, granular, sparsely glauconitic, fossiliferous ("larger Foraminifera") .....	121	646
<i>Camerina striatoreticulata</i> common at 525.		

**Summary:**

No samples .....	20	20
In Pliocene to Recent (undifferentiated) .....	52	72
Miocene (undifferentiated) .....	156	228
No samples .....	12	240
In Oligocene (undifferentiated) .....	60	300
No samples .....	20	320
In upper Eocene (Ocala limestone) .....	326	646

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	406	646

**Remarks:**

Sample intervals too large to permit satisfactory picking of formational tops.

**CHATHAM COUNTY**

Location: 2 mi. east of City Hall, near south bank of Savannah River, in Savannah  
 Owner: No. 1 Standard Oil Company  
 Driller: Layne-Atlantic Company  
 Drilled: August 1940

Well No.: GGS 61  
 Elev.: 6

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular, arkosic, finely disseminated phosphatic grains; interbedded clay, dark-gray, silty, lignitic, micaceous, fossiliferous (macroshells at certain levels) .....	60	60
Sand: coarse-grained, arkosic, somewhat phosphatic .....	10	70
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, somewhat granular (in texture), sandy, phosphatic (at depth) .....	30	100
Reddish-brown phosphatic fragments prominent at 100.		
Clay: as above; interbedded dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic; limestone, light-gray to white, dense, saccharoidal, very sandy, phosphatic, fossiliferous at depth (casts and impressions of megafossils) .....	145	245
Dolomitic limestone prominent at 140.		
No samples .....	32	277

**In Oligocene (Undifferentiated):**

Limestone: cream, nodular (much calcitized), cherty, fossil-

	Thickness (feet)	Depth (feet)
iferous (casts and molds of Gastropods, some echinoid and bryozoan remains, and Foraminifera) .....	?	277
<i>Quinqueloculina</i> sp., <i>Pyrgo</i> sp. at 277.		
No samples .....	13	290
Limestone: light-gray, massive, crystalline (recrystallized), fossiliferous (some bryozoan remains, Ostracods, and Foraminifera) .....	20	310
No samples .....	15	325

#### In Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: white, somewhat calcitized, crystalline, fossiliferous (abundant bryozoan remains and some Foraminifera) .....	?	325
<i>Operculinoides floridensis</i> , <i>Asterocyclina nassauensis</i> , <i>Argyrotheca</i> sp. at 325.		
Limestone: as above .....	75	400
No samples .....	20	420
Limestone: cream, highly calcitized, granular, fossiliferous ("larger Foraminifera" at certain levels) .....	230	650
<i>Camerina striatoreticulata</i> at 480.		
<i>Operculina mariannensis</i> at 580.		

#### Summary:

Pliocene to Recent (undifferentiated) .....	70	70
Miocene (undifferentiated) .....	175	245
No samples .....	32	277
In Oligocene (undifferentiated) .....	33	310
No samples .....	15	325
In upper Eocene (Ocala limestone) .....	325	650

#### Potential Water-Bearing Zones:

Limestone .....	373	650
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#### Remarks:

Well plagued with sample gaps, hence impossible to place formational tops with accuracy.

## CHATHAM COUNTY

Location: West side of Atlantic Coast Line R.R., east side of Travis Air Force Base, Port Wentworth  
 Well No.: GGS 62  
 Owner: No. 1 Cherokee Hill  
 Drilled: 1920  
 Elev.: 22

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained; inclusions of kaolin, white, sandy, mica- ceous .....	42	42
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic, gypsiferous at certain levels .....	118	160
Brown to black, polished, phosphatic pebbles abundant at 120-130.		
Dolomitic limestone: light-brown, saccharoidal, sandy; some clay, dark-green, sandy, phosphatic.....	40	200
Clay, as above.....	21	221
No samples .....	59	280
<b>In Oligocene (Undifferentiated):</b>		
Limestone: light-gray, rather dense, nodular (calcitized), somewhat sandy, fossiliferous (echinoid and bryozoan re- mains, and some Foraminifera).....	30	310
<i>Discocyclus</i> <sup>1</sup> sp., <i>Dictyoconus</i> <sup>1</sup> sp., <i>Textularia</i> sp., <i>Nonion- ella hantkeni</i> var., <i>Discorbis</i> cf. <i>D. tentoria</i> , <i>Cibicides lobatulus</i> , <i>Nonion advena</i> , <i>Reussella oligocenica</i> at 280-290. <i>Rotalia mexicana</i> var. at 300-310.		
Limestone: cream, massive, saccharoidal at depth, fossilifer- ous (fragments, casts and molds of Gastropods, echinoid and bryozoan remains, and Foraminifera).....	50	360
<i>Gypsina globula</i> <sup>1</sup> , <i>Asterocyclina</i> <sup>1</sup> sp., <i>Pyrgo</i> sp., <i>Rotalia mexicana</i> var., <i>Cibicides lobatulus</i> at 310-320.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray, dense, massive (much calcitized), fos- siliferous (macroshells, abundant bryozoan remains, and some Foraminifera) .....	30	390
<i>Asterocyclina</i> sp., <i>Operculinoides</i> sp., <i>Gypsina globula</i> at 370-380.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.



	Thickness (feet)	Depth (feet)
Limestone: white, crystalline (much calcitized), massive, fossiliferous (macroshells, abundant bryozoan remains, and Foraminifera) .....	50	440
<i>Asterocyclina nassauensis</i> at 390-400.		
Limestone: light-gray, saccharoidal, crystalline (highly calcitized), coarsely glauconitic, fossiliferous (abundant echinoid and bryozoan remains, and some Foraminifera) .....	55	495
No samples .....	5	500
Limestone: cream, granular, sandy at depth, fossiliferous (abundant echinoid and bryozoan remains and abundant "larger Foraminifera") .....	170	670
<i>Camerina</i> cf. <i>C. striatoreticulata</i> at 525.		
No samples .....	40	710

#### In Middle Eocene: Claiborne Group: Lisbon Formation:

Limestone: light-gray, massive, somewhat saccharoidal, coarsely glauconitic, somewhat fossiliferous (echinoid and bryozoan remains, and some Foraminifera) .....	40	750
<i>Asterocyclina monticellensis</i> at 730.		
No samples .....	30	780
Limestone: white, massive (much calcitized), cherty, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	80	860
<i>Operculinoides</i> sp. at 780.		
No samples .....	30	890
Limestone: cream, granular, cherty .....	60	950
Brown chert abundant at 890.		
No samples .....	60	1,010

#### In Tallahatta Formation:

Limestone: as above, but coarsely glauconitic and fossiliferous (abundant Foraminifera) .....	260	1,270
<i>Cibicides blanpiedi</i> , <i>Cibicides tallahattensis</i> at 1010.		
No samples .....	90	1,360

	Thickness (feet)	Depth (feet)
<b>In Lower Eocene and Paleocene (Undifferentiated):</b>		
Sand: fine to medium-grained, abundantly glauconitic.....	?	1,360
No samples .....	30	1,390
Marl: light-gray, somewhat indurated, glauconitic, fossiliferous (Ostracods and abundant Foraminifera).....	20	1,410
<i>Spiroplectammina wilcoxensis</i> , <i>Vaginula longiforma</i> , <i>Bolivina midwayensis</i> , <i>Bulimina quadrata</i> , <i>Siphonina wilcoxensis</i> , <i>Siphonina prima</i> , <i>Gyroldina aequilateralis</i> , <i>Chilostomeloides eocenica</i> , <i>Discorbis cf. D. midwayensis</i> , <i>Anomalina</i> sp. at 1390.		
No samples .....	20	1,430
Limestone: dark-gray, crystalline, very dense, somewhat argillaceous, coarsely glauconitic.....	?	1,430
No samples .....	110	1,540
Marl: light-gray to dark-brown at depth, somewhat indurated, glauconitic, pyritiferous, fossiliferous (Ostracods and Foraminifera) .....	50	1,590
<i>Polymorphina cushmani</i> at 1590.		
No samples .....	20	1,610
<b>In Upper Cretaceous (Undifferentiated):</b>		
Marl: dark-bluish-gray, silty, pyritiferous, micaceous; interbedded sand, fine to medium-grained, micaceous, pyritiferous, fossiliferous (Ostracods and Foraminifera).....	520	2,130
<i>Dorothia bulletta</i> , <i>Bulimina pupoides</i> , <i>Anomalina</i> sp. at 1650.		
<i>Clavulinoides trilatera</i> at 1690.		
<i>Gaudryina rudita</i> , <i>Loxostoma plaitum</i> , <i>Bulimina pupoides</i> , <i>Globotruncana arca</i> , <i>Cibicides harperi</i> at 1710.		
<i>Gaudryina rudita</i> , <i>Anomalina henbesti</i> at 2070.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	42	42
Miocene (undifferentiated) .....	179	221
No samples .....	59	280
In Oligocene (undifferentiated).....	80	360
Upper Eocene (Ocala limestone).....	310	670
No samples .....	40	710
In middle Eocene (Lisbon formation).....	240	950

	Thickness (feet)	Depth (feet)
No samples .....	60	1,010
In middle Eocene (Tallahatta formation).....	260	1,270
No samples .....	90	1,360
In lower Eocene and Paleocene (undifferentiated).....	230	1,590
No samples .....	20	1,610
In Upper Cretaceous (undifferentiated).....	520	2,130

**Potential Water-Bearing Zones:**

Limestone .....	730	1,010
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**CHATHAM COUNTY**

Location: Abercorn and 59th Street, Savannah  
 Owner: City of Savannah  
 Driller: Layne-Atlantic Company  
 Drilled: May 1941

Well No.: GGS 80  
 Elev.: 18

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained to coarser-grained at depth; interbedded clay, dark-gray to black, somewhat fissile, silty, lignitic, micaceous, fossiliferous (macroshells).....	60	60
Clay: gray to dark-green, sandy, somewhat phosphatic.....	20	80
Sand: coarse-grained, rounded, arkosic; some clay, as above .....	2	82
Sand: as above; fragments of dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic.....	2	84
No samples .....	31	115
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic.....	115	230
Dolomitic limestone: light-brown, saccharoidal, sandy, fossiliferous (casts and impressions of megafossils); interbedded limestone, light-gray, dense (much calcitized), somewhat nodular, sandy, phosphatic.....	20	250
No samples .....	20	270

	Thickness (feet)	Depth (feet)
<b>In Oligocene (Undifferentiated):</b>		
Limestone: cream, rather massive (much calcitized), fossiliferous (megafossils and some Foraminifera); some limestone, as above.....	60	330
<i>Rotalia mexicana</i> var., <i>Nonionella hantkeni</i> var., <i>Gypsina globula</i> <sup>1</sup> at 270.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 300.		
No samples .....	17	347
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray to white, dense (much calcitized), crystalline, fossiliferous (megafossils, echinoid and bryozoan remains, and Foraminifera).....	159	506
<i>Operculinoides floridensis</i> , <i>Asterocyclina</i> sp. at 386.		
No samples .....	59	565
Limestone: cream, granular, fossiliferous (Foraminifera).....	95	660
<i>Asterocyclina nassauensis</i> , <i>Pseudophragmina flintensis</i> at 565.		
<i>Camerina striatoreticulata</i> , <i>Operculina mariannensis</i> at 640.		
Limestone: as above, but coarsely glauconitic.....	40	700
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	84	84
No samples .....	31	115
In Miocene (undifferentiated).....	135	250
No samples .....	20	270
In Oligocene (undifferentiated).....	60	330
No samples .....	17	347
In upper Eocene (Ocala limestone).....	353	700
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	430	700

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## CHATHAM COUNTY

Location: On White Bluff Road, 700 ft. west and 0.3 mi. north of Buckhalter Road, Savannah  
 Owner: No. 1 J. M. Breckenridge  
 Driller: Layne-Atlantic Company  
 Drilled: January 1940

Well No.: GGS 125  
 Elev.: 21

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, arkosic, finely disseminated phosphatic grains; interbedded clay, dark-gray, silty, lignitic, micaceous .....	60	60
No samples .....	20	80
Sand: coarse-grained, arkosic, subrounded .....	?	80
No samples .....	20	100
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic .....	120	220
Brown to black, phosphatic pebbles abundant at 220.		
No samples .....	20	240
Clay: as above; some dolomitic limestone, light-brown, saccharoidal, sandy .....	13	253
No samples .....	22	275
<b>In Oligocene (Undifferentiated):</b>		
Limestone: light-gray, dense, sandy, nodular, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	70	345
<i>Pyrgo</i> sp. at 270.		
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 295.		
<i>Operculinoides</i> sp., <i>Nonionella hantkeni</i> var. at 320.		
No samples .....	30	375
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray to white at depth, much calcitized, crystalline, fossiliferous (abundant bryozoan remains, Ostracods, and some Foraminifera) .....	145	520
<i>Operculinoides floridensis</i> at 375.		
<i>Pseudophragmina flintensis</i> , <i>Gypsina globula</i> , <i>Asterocyclina</i> sp. at 400.		

	Thickness (feet)	Depth (feet)
No samples .....	20	540
Limestone: cream, granular (highly calcitized), sparsely glauconitic, fossiliferous (abundant bryozoan remains and "larger Foraminifera," many of which are impregnated with glauconite) .....	60	600
<i>Operculina mariannensis</i> , <i>Camerina striatoreticulata</i> at 540.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	80	80
No samples .....	20	100
In Miocene (undifferentiated) .....	153	253
No samples .....	22	275
In Oligocene (undifferentiated) .....	70	345
No samples .....	30	375
In upper Eocene (Ocala limestone) .....	225	600

**Potential Water-Bearing Zones:**

Limestone .....	325	600
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**Remarks:**

Sample intervals too large to permit picking of satisfactory formational tops.

**CHATHAM COUNTY**

Location: South bank of Savannah River, in Savannah      Well No.: GGS 377  
 Owner: No. 1 American Cyanamid Company                      Elev.: 15  
 Driller: M. M. Gray Drilling Company  
 Drilled: May 1954

**Pliocene to Recent (Undifferentiated):**

Clay: light to dark-gray, silty, lignitic, finely disseminated phosphatic grains .....	40	40
Sand: fine to coarse-grained, arkosic, subangular .....	10	50

**Miocene (Undifferentiated):**

Clay: dark-green, sandy, phosphatic .....	84	134
Clay: as above; interbedded dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic .....	32	166

Reddish-brown phosphatic pellets abundant at 134-140.

	Thickness (feet)	Depth (feet)
Limestone: light-gray, rather dense, sandy, phosphatic, fossiliferous (casts and molds of megafossils) .....	14	180
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, chalky, soft, fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	55	235
<i>Rotalia mexicana</i> var. at 176-184.		
<i>Nonionella hantkeni</i> var., <i>Robulus</i> sp., <i>Textularia</i> sp., <i>Gypsina globula</i> <sup>1</sup> at 195-205.		
Limestone: cream, granular (in texture), much calcitized, fossiliferous (Gastropods, some echinoid and bryozoan remains, and Foraminifera) .....	42	277
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray to white, coarsely glauconitic at depth, extremely dense (highly calcitized), fossiliferous (abundant echinoid and bryozoan remains, some Ostracods and Foraminifera) .....	158	495
<i>Operculinoides</i> cf. <i>O. floridensis</i> at 275-285.		
<i>Robulus cultratus</i> , <i>Lingulina</i> sp., <i>Planularia</i> sp., <i>Nodosaria latejugata</i> var. <i>carolinensis</i> at 285-295.		
<i>Asterocyclina nassauensis</i> at 315-325.		
Limestone: cream, granular (much calcitized), coarsely but sparsely glauconitic, cherty (at depth), fossiliferous (abundant "larger Foraminifera," some of which are impregnated with glauconite) .....	215	650
<i>Asterocyclina</i> sp., <i>Lepidocyclina (Polylepidina) antillea</i> <sup>1</sup> at 480-490.		
Brown chert at 550-560.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	50	50
Miocene (undifferentiated) .....	130	180
Oligocene (undifferentiated) .....	97	277
Upper Eocene (Ocala limestone) .....	373	650

**Potential Water-Bearing Zones:**

Limestone .....	373	650
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<sup>1</sup>Reworked(?) fossil of middle Eocene age.

## CHATHAM COUNTY

Location: 175 ft. north of Waltz Drive and 0.25 mi. west of crossroads (Waltz Drive and Toussaint Avenue), in Savannah  
 Well No.: GGS 379  
 Elev.: 25  
 Owner: City of Savannah  
 Driller: Layne-Atlantic Company  
 Drilled: April 1954

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, finely disseminated phosphatic grains; interbedded clay, dark-brown, silty, lignitic, mica-ceous .....	80	80
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-green, silty, abundantly phosphatic at depth, finely disseminated flakes of mica .....	120	200
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; limestone, light-gray, dense (much calcitized), sandy, phosphatic, fossiliferous (molds and impressions of mega-fossils) .....	35	235
<b>In Oligocene (Undifferentiated):</b>		
Limestone: light-gray, dense (much calcitized), nodular, fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	108	343
<i>Rotalia mexicana</i> var., <i>Nonion advena</i> , <i>Cibicides americanus</i> var., <i>Cibicides lobatulus</i> at 221-250.		
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray to white at depth, crystalline (much calcitized), somewhat nodular, massive, fossiliferous (molds and casts of megafossils, abundant bryozoan remains, and some Foraminifera) .....	91	434
<i>Operculinoides</i> cf. <i>O. floridensis</i> , <i>Gypsina vesicularis</i> , <i>Nodosaria latejugata</i> var., <i>Argyrotheca</i> sp. at 313-373.		
<i>Asterocyclina nassauensis</i> , <i>Gypsina globula</i> , <i>Siphonina jacksonensis</i> at 373-434.		
Limestone: cream, somewhat crystalline (calcitized), fossiliferous (abundant echinoid spines, bryozoan remains, and Foraminifera) .....	356	790
<i>Camerina striatoreticulata</i> , <i>Operculina mariannensis</i> , <i>Lepidocyclina (Polylepidina) antillea</i> <sup>1</sup> at 524-615.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.



	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Limestone: cream, crystalline, granular (highly calcitized), coarsely glauconitic, fossiliferous (abundant bryozoan remains, and some Foraminifera).....	160	950
<i>Canceris</i> sp., <i>Gyroidina soldanii</i> var., <i>Siphonina claibornensis</i> , <i>Cibicides mississippiensis</i> , <i>Cibicides pippeni</i> var. at 790-800.		
<i>Asterocyclina monticellensis</i> , <i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> at 800-810.		
<i>Cibicides westi</i> at 830-840.		
Limestone: cream, crystalline, granular (highly calcitized), cherty .....	50	1,000
Brown chert abundant at 950-960.		

**Summary:**

Pliocene to Recent (undifferentiated).....	80	80
In Miocene (undifferentiated).....	155	235
In Oligocene (undifferentiated).....	108	343
In upper Eocene (Ocala limestone).....	447	790
In middle Eocene (Claiborne group, undifferentiated).....	210	1,000

**Potential Water-Bearing Zones:**

Limestone .....	515	750
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**Remarks:**

Sample intervals too large to permit accurate picking of formational tops.

**CHATHAM COUNTY**

Location: Fairway Oaks Development, southwest of De- Well No.: GGS 380  
 Renne and Waters Avenues, opposite golf course, in Elev.: 14  
 Savannah

Owner: No. 1 T. T. Dunn

Driller: Layne-Atlantic Company

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, finely disseminated phosphatic grains.....	5	5
Sand: fine to medium-grained, arkosic.....	10	15

	Thickness (feet)	Depth (feet)
Clay: dark-gray, silty, lignitic, micaceous, fossiliferous (macroshells); sand, as above.....	20	35
Sand: fine to coarse-grained, subrounded.....	15	50

**Miocene (Undifferentiated):**

Clay: dark-green, sandy, phosphatic, finely disseminated flakes of mica.....	108	158
Reddish-brown phosphatic fragments prominent at 86-96.		
Dolomitic limestone: light-brown, saccharoidal, very sandy, phosphatic .....	10	168
Clay: dark-green, silty, phosphatic, blocky.....	31	199
Limestone: light-gray, somewhat argillaceous, very sandy, phosphatic, fossiliferous (casts and molds of megafossils, Ostracods, and Foraminifera).....	20	219
<i>Nonion pizarrensis</i> , <i>Rotalia beccarii</i> var., <i>Cibicides americanus</i> at 199-209.		
<i>Elphidium discoidale</i> , <i>Discorbis subaraucana</i> , <i>Nonion advena</i> , <i>Cibicides concentricus</i> at 209-219.		

**Oligocene (Undifferentiated):**

Limestone: cream, somewhat crystalline (in texture), nodular (calcitized), fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera).....	31	250
<i>Rotalia mexicana</i> var., <i>Pyrgo</i> sp., <i>Quinqueloculina</i> sp. at 219-230.		
<i>Lepidocyclina</i> ( <i>Polylepidina</i> ) <i>antillea</i> <sup>1</sup> , <i>Gypsina globula</i> <sup>1</sup> , <i>Rotalia mexicana</i> var., <i>Nonionella hantkeni</i> var., <i>Cibicides lobatulus</i> , <i>Cibicides americanus</i> var. at 230-240.		
Limestone: yellow, saccharoidal (highly calcitized), fossiliferous (Gastropods, Ostracods, and Foraminifera).....	60	310
<i>Dictyoconus</i> <sup>1</sup> sp. at 250-260.		

**Summary:**

Pliocene to Recent (undifferentiated).....	50	50
Miocene (undifferentiated) .....	169	219
Oligocene (undifferentiated) .....	91	310

**Potential Water-Bearing Zones:**

Limestone .....	91	310
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<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## CHATHAM COUNTY

Location: Fort Pulaski, Cockspur Island  
 Owner: No. 1 USGS Test Hole (Observation Well)  
 Driller: M. M. Gray Drilling Company  
 Drilled: May 1954

Well No.: GGS 381  
 Elev.: 8

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: dark-gray, somewhat indurated, silty, carbonaceous, micaceous, fossiliferous (macroshells at certain levels); some sand, fine to medium-grained, subangular, arkosic .....	59	59
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic; interbedded dolomitic limestone at depth, light-brown, saccharoidal, sandy.....	53	112
Brownish-red phosphatic pebbles common at 79-82.		
Dolomitic limestone prominent at 82-92.		
Limestone: light-gray to white, saccharoidal, sandy, phosphatic, fossiliferous (fragments, casts and molds of macroshells) .....	8	120
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, somewhat crystalline, nodular, much calcitized and massive, fossiliferous (bryozoan remains and some Foraminifera) .....	12	132
<i>Rotalia mexicana</i> var., <i>Alabamina mississippiensis</i> , <i>Siphonina advena</i> , <i>Cibicides lobatulus</i> , <i>Cibicides mississippiensis</i> at 115-122.		
Limestone: cream, somewhat nodular, rather massive, sandy, fossiliferous (casts and molds of Gastropods and some Foraminifera) .....	88	220
<i>Pyrgo</i> sp. at 132-142.		
<i>Quinqueloculina</i> sp., <i>Coskinolina</i> <sup>1</sup> sp. at 142-152.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, much calcitized, crystalline, somewhat saccharoidal, abundantly fossiliferous (macroshells, abundant bryozoan remains and Foraminifera).....	85	305
<i>Asterocyclina nassauensis</i> at 225-230.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Limestone: light-gray, crystalline, saccharoidal, coarsely but sparsely glauconitic, fossiliferous (abundant bryozoan and echinoid remains and some Foraminifera).....	40	345
Limestone: cream, somewhat calcitized and crystalline, relatively soft and porous, granular, somewhat loosely consolidated, sparsely glauconitic, fossiliferous at certain levels (bryozoan remains and Foraminifera).....	281	626
<i>Camerina striatoreticulata</i> at 395-401.		

**Middle Eocene: Claiborne Group: Lisbon Formation:**

Limestone: as above, but more massive, calcitized, somewhat sandy, fossiliferous (macroshells and Foraminifera at certain levels) .....	79	705
Limestone: white, somewhat crystalline, massive, coarsely but sparsely glauconitic, fossiliferous (macroshells and frequent bryozoan remains) .....	5	710
Limestone: cream, calcitized and granular, somewhat loosely consolidated, sparsely glauconitic, fossiliferous (macroshells and Foraminifera) .....	25	735
<i>Canceris</i> sp., <i>Gyroidina soldanii</i> var., <i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> at 730-735.		

Marl: yellowish-green becoming cream and granular at depth, fossiliferous (an abundant microfauna); interbedded sand, fine to medium-grained, subangular..... 215 950

*Textularia dibollensis*, *Textularia a Spiroplectamina mississippiensis* var., *Robulus alato-limbatus*, *Discorbis assulata*, *Nonion planatus*, *Nonion inexcavatus*, *Lagena acuticosta*, *Sigmoidella plummerae*, *Marginulina cocoaensis*, *Gyroidina soldanii* var., *Angulogerina vicksburgensis*, *Bolivina broussardi*, *Buliminella robertsi*, *Cibicides danvillensis*, *Cibicides* cf. *C. westi*, *Cibicides americanus* var. *antiquus*, *Cibicides lobatulus* at 735-740.

*Cibicides westi*, *Cibicides pseudoungerianus* var. *lisbonensis*, *Lepidocyclina* sp. at 740-766.

*Discorbis inornatus* at 827-868.

**Tallahatta Formation:**

Lithology as above but much more glauconitic..... 144 1,094

*Cibicides blanpiedi* at 950.

*Canceris* sp., *Eponides mexicanus* at 986.

	Thickness (feet)	Depth (feet)
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Limestone: light-brown to cream, calcitized, more calcitized and crystalline at depth, granular, somewhat loosely consolidated, glauconitic (abundantly so at certain levels), cherty, pyritiferous, fossiliferous (echinoid and bryozoan remains, Ostracods and Foraminifera).....	320	1,414
<i>Textularia</i> sp., <i>Robulus</i> sp., <i>Eponides</i> cf. <i>E. dorfi</i> , <i>Valvulineria scrobiculata</i> , <i>Cibicides blanpiedi</i> at 1094-1114.		
<i>Operculinoides</i> sp., <i>Pseudophragmina</i> sp. at 1156.		

**Paleocene: Midway Group: Clayton Formation:**

Marl: dark-brownish-gray, somewhat indurated, laminated, silty, glauconitic, abundantly fossiliferous (Ostracods and abundant Foraminifera) .....	21	1,435
<i>Spiroplectammina semicomplanata</i> , <i>Gaudryina pyramidata</i> , <i>Nodosaria affinis</i> , <i>Pseudoglandulina manifesta</i> , <i>Valvulineria umbilicatula</i> , <i>Gryoidina depressa</i> , <i>Siphonina prima</i> , <i>Chilostomella ovoidea</i> , <i>Globorotalia membranacea</i> , <i>Globorotalia velascoensis</i> , <i>Dentalina colei</i> , <i>Bulimina</i> cf. <i>B. kugleri</i> , <i>Bulimina quadrata</i> , <i>Anomalina midwayensis</i> , <i>Anomalina pseudopillosa</i> at 1414-1435.		

**Summary:**

Pliocene to Recent (undifferentiated).....	59	59
Miocene (undifferentiated) .....	61	120
Oligocene (undifferentiated) .....	100	220
Upper Eocene (Ocala limestone).....	406	626
Middle Eocene (Lisbon formation).....	324	950
Middle Eocene (Tallahatta formation).....	144	1,094
In lower Eocene (Wilcox group, undifferentiated).....	320	1,414
Paleocene (Clayton formation).....	21	1,435

**Potential Water-Bearing Zones:**

Limestone .....	610	730
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## CHATHAM COUNTY

Location: In Bloomingdale  
 Owner: No. 1 Lowman  
 Driller: Layne-Atlantic Company  
 Drilled: 1954

Well No.: GGS 394

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: dark-gray to tan to red (mottled), very sandy, limonitic.....	5	5
Sand: very coarse-grained (up to gravel size), subrounded, arkosic; interbedded clay, dark-brown, somewhat indurated and tough, silty, lignitic, micaceous (finely disseminated flakes) .....	55	60
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic, micaceous.....	35	95
Phosphatic fragments common at 75-85.		
Indurated sand (or sandstone): yellowish-green to dark-green, somewhat iron-stained, fine-grained, argillaceous, micaceous (finely disseminated flakes).....	31	126
Clay: dark-green, sandy, somewhat blocky, phosphatic .....	134	260
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic .....	18	278
Limestone: light-gray to white, dense, sandy, phosphatic, fossiliferous (fragments and casts of megafossils).....	7	285
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, rather dense (calcitized), nodular, fossiliferous (echinoid and bryozoan remains, Ostracods and Foraminifera) .....	5	290
Limestone: white, soft and chalky (weathered), fossiliferous (as above) .....	10	300
<i>Rotalia mexicana</i> var. at 280-290.		
<i>Asterocyclina</i> <sup>1</sup> sp. at 290-300.		
Limestone: yellow, saccharoidal (much calcitized and recrystallized), fossiliferous (fragments and molds of Gastropods, echinoid and bryozoan remains, Ostracods, and Foraminifera)	10	310
<i>Quinqueloculina</i> sp., <i>Dictyoconus</i> <sup>1</sup> sp., <i>Gypsina globula</i> <sup>1</sup> sp., <i>Discorbis?</i> sp. at 300-310.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	60	60
In Miocene (undifferentiated).....	225	285
Oligocene (undifferentiated).....	25	310

**Potential Water-Bearing Zones:**

Limestone .....	25	310
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**CHATHAM COUNTY**

Location: Strachan Ave. near Vernon River, Savannah    Well No.: GGS 395  
 Owner: No. 1 Boy Scouts (Savannah)  
 Driller: Layne-Atlantic Company  
 Drilled: 1954

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, angular, arkosic, finely disseminated phosphatic grains.....	25	25
Clay: dark-gray, silty, lignitic, micaceous, fossiliferous (macroshells at certain horizons).....	10	35
Sand: coarse-grained, subangular, phosphatic, arkosic .....	10	45
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic at depth .....	180	225
Reddish-brown, phosphatic fragments common at 107-117.		
Limestone: light-gray, dense, somewhat dolomitized and saccharoidal, sandy, phosphatic, fossiliferous (fragments and casts and molds of megafossils, and some Foraminifera).....	25	250
<i>Elphidium</i> cf. <i>E. discoidale</i> , <i>Cibicides concentricus</i> at 225-230.		
<b>Oligocene (Undifferentiated):</b>		
Limestone: light gray to cream, nodular to granular (in texture), much calcitized, soft (somewhat weathered) and chalky, fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera).....	79	329
<i>Rotalia mexicana</i> var., <i>Nonionella hantkeni</i> var. at 250-260.		

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	45	45
Miocene (undifferentiated) .....	205	250
Oligocene (undifferentiated) .....	79	329

**Potential Water-Bearing Zones:**

Limestone .....	79	329
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**CHATHAM COUNTY**

Location:  
 Owner: No. 1 American Petroleum Company  
 Driller: Layne-Atlantic Company

Well No.: GGS 396  
 Elev.: 16<sup>1</sup>

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: fine-grained, phosphatic (finely disseminated).....	5	5
Clay: bluish-gray to red (mottled), very sandy, micaceous; sand, as above.....	5	10
Sand and clay: as above; some clay, dark-brown, somewhat indurated, lignitic, micaceous.....	8	18
Sand: coarse-grained (up to gravel size), subrounded, arkosic.....	7	25

**Miocene (Undifferentiated):**

Clay: yellowish to dark-green, sandy, phosphatic, micaceous (finely disseminated flakes); interbedded dolomitic lime- stone, light-brown, saccharoidal, sandy, phosphatic.....	190	215
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Phosphatic pebbles common at 75-85.

Dolomitic limestone prominent at 140-150.

Limestone: white, dense, sandy, phosphatic, fossiliferous (fragments, casts and molds of megafossils, and some Ostra- cods and Foraminifera).....	15	230
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*Elphidium* sp., *Nonion pizarensis*, *Valvulineria floridana*,  
*Nonion advena*, *Discorbis subaraucana*, *Cibicides lobatulus*,  
*Cibicides concentricus* at 210-220.

*Pyrgo* sp. at 220-230.

No samples .....	10	240
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<sup>1</sup>Average elevation taken from State Highway map.



	Thickness (feet)	Depth (feet)
<b>In Oligocene (Undifferentiated):</b>		
Limestone: cream, somewhat crystalline (calcitized), rather massive, nodular, fossiliferous (casts and molds of Gastropods, bryozoan remains, and Foraminifera).....	70	310
<i>Quinqueloculina</i> sp., <i>Pyrgo</i> sp., <i>Rotalia mexicana</i> var., <i>Dic-tyoconus</i> <sup>2</sup> sp., <i>Gypsina globula</i> <sup>2</sup> at 240-260.		

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: light-gray to white at depth, crystalline (much calcitized), fossiliferous (macroshells, abundant echinoid and bryozoan remains, Ostracods, and Foraminifera).....	190	500
<i>Operculinoides</i> cf. <i>O. floridensis</i> at 300-320.		
<i>Operculinoides floridensis</i> at 340-360.		
Limestone: cream, granular (highly calcitized), fossiliferous (abundant bryozoan remains and abundant "larger Foraminifera") .....	220	720
<i>Asterocyclina</i> sp., <i>Camerina striatoreticulata</i> , <i>Operculina mariannensis</i> at 500-520.		
<i>Lepidocyclina</i> ( <i>Polylepidina</i> ) <i>antillea</i> <sup>2</sup> at 520-540.		

**Summary:**

Pliocene to Recent (undifferentiated).....	25	25
Miocene (undifferentiated) .....	205	230
No samples .....	10	240
In Oligocene (undifferentiated).....	70	310
In upper Eocene (Ocala limestone).....	410	720

**Potential Water-Bearing Zones:**

Limestone .....	480	720
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**Remarks:**

Overall quality of well cuttings poor.

<sup>2</sup>Reworked (?) fossil of middle Eocene age.

## CHATHAM COUNTY

Location: Cherokee Hill, Port Wentworth  
 Owner: No. 1 Port Wentworth  
 Driller: Mineral Development Company  
 Drilled: October 1955

Well No.: GGS 506  
 Elev.: 43

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, phosphatic (finely disseminated), arkosic; interbedded clay, dark-gray, somewhat indurated, silty, carbonaceous, micaceous .....	45	45
Sand: coarse-grained, subrounded, arkosic.....	2	47
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic, micaceous, cherty (at depth) .....	214	261
Reddish-brown phosphatic fragments and dark-green chert prominent at 175-180.		
Dolomitic limestone: light-brown, saccharoidal, sandy.....	4	265
Limestone: light-gray to white, sandy, phosphatic, fossiliferous (fragments and molds of megafossils, echinoid and bryozoan remains, and some Foraminifera).....	5	270
<i>Elphidium</i> sp., <i>Discorbis subaraucana</i> at 268-270.		
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, somewhat soft and chalky (weathered), fossiliferous (casts and molds of megafossils, echinoid and bryozoan remains, and some Foraminifera).....	35	305
<i>Quinqueloculina</i> sp., <i>Pyrgo</i> sp., <i>Nonionella hantkeni</i> var., <i>Rotalia mexicana</i> var. at 271-273.		
<i>Asterocyclus</i> <sup>1</sup> sp., <i>Gypsina globula</i> <sup>1</sup> , <i>Lepidocyclus</i> ( <i>Poly-lepidina</i> ) <i>antillea</i> <sup>1</sup> at 288-293.		
Limestone: cream to yellowish-brown, saccharoidal, rather massive, fossiliferous (fragments and molds of Gastropods, echinoid and bryozoan remains, and Foraminifera).....	53	358
<i>Dictyoconus</i> <sup>1</sup> sp., <i>Discorbis</i> ? sp., <i>Gypsina globula</i> <sup>1</sup> , <i>Quinqueloculina</i> sp. at 305-310.		
<i>Quinqueloculina</i> sp. abundant at 330-335.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray to white at depth, massive, crystalline (much calcitized), fossiliferous (abundant bryozoan remains and some Foraminifera).....	142	500
<i>Asterocyclina</i> sp. at 355-360.		
<i>Operculinoides</i> cf. <i>O. floridensis</i> at 370-380.		
<i>Asterocyclina nassauensis</i> at 410-420.		
<i>Pseudophragmina flintensis</i> at 490-500.		
Limestone: cream, granular, sparsely but coarsely glauconitic, sandy (at depth), fossiliferous (abundant echinoid and bryozoan remains and abundant "larger Foraminifera"; interbedded saccharoidal limestone, light-gray, massive, crystalline, sparsely but coarsely glauconitic, fossiliferous (abundant echinoid and bryozoan remains and abundant "larger Foraminifera") .....	230	730
<i>Lepidocyclina (Polylepidina)</i> sp., <i>Asterocyclina monticellensis</i> at 510-520.		
<i>Asterocyclina</i> sp., <i>Camerina striatoreticulata</i> prominent at 530-540.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: white to light-gray, massive, crystalline, coarsely but sparsely glauconitic, fossiliferous (fragments, casts and molds of megafossils, abundant echinoid and bryozoan remains, and some Foraminifera); interbedded calcitized limestone, light-gray, saccharoidal.....	160	890
<i>Lepidocyclina antillea?</i> at 730-740.		
<i>Asterocyclina monticellensis</i> at 740-750.		
<i>Gyroidina nassauensis</i> , <i>Discorbis inornatus</i> at 804 (core).		
<i>Cibicides westi</i> , <i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> at 820 (core).		
Macroshells abundant at 860-890.		
Limestone: cream, granular, somewhat saccharoidal, rather loosely consolidated, sparsely glauconitic, pyritiferous, cherty	110	1,000
Brown chert prominent at 920-930.		
<b>Tallahatta Formation:</b>		
Marl: light-gray, partially indurated, coarsely glauconitic (abundantly glauconitic at certain levels), fossiliferous, (some Foraminifera at certain horizons).....	88	1,088
<i>Cibicides blaupiedi</i> at 1006.		
<i>Cibicides blaupiedi</i> , <i>Cibicides tallahattensis</i> at 1079.		

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	47	47
Miocene (undifferentiated) .....	223	270
Oligocene (undifferentiated) .....	88	358
Upper Eocene (Ocala limestone).....	372	730
Middle Eocene (Lisbon formation).....	270	1,000
Middle Eocene (Tallahatta formation).....	88	1,088

**Potential Water-Bearing Zones:**

Limestone .....	620	890
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**CHATHAM COUNTY**

Location: Port Wentworth  
 Owner: No. 1 Savannah Electric and Power Company  
 Driller: Layne-Atlantic Company

Well No.: GGS 523  
 Elev.: 16

	Thickness (feet)	Depth (feet)
No samples .....	60	60
<b>In Pliocene to Recent (Undifferentiated):</b>		
Sand: coarse-grained, subrounded, arkosic; clay, dark-brown, carbonaceous, and micaceous .....	10	70
<b>Miocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, phosphatic.....	10	80
Dark-green chert prominent at 170-180.		
Clay: dark-green, sandy, phosphatic and cherty at depth.....	180	260
Dolomitic limestone: light-brown, saccharoidal, sandy, phos- phatic .....	10	270
No samples .....	10	280
Limestone: light-gray to white, dense, sandy, phosphatic, fos- siliferous (fragments, casts and molds of megafossils, bryo- zoan remaing, and Ostracods).....	20	300

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: white, somewhat soft and chalky (weathered?) fossiliferous (echinoid and bryozoan remains and some Foraminifera) .....	15	315
<i>Asterocyclina</i> <sup>1</sup> sp., <i>Gypsina globula</i> <sup>1</sup> , <i>Eponides byramensis</i> , <i>Robulus articulatus</i> , <i>Discorbis</i> cf. <i>D. tentoria</i> at 300-310. <i>Dictyoconus</i> <sup>1</sup> sp., <i>Quinqueloculina</i> sp. at 320-330.		
Limestone: cream, saccharoidal (much calcitized), fossiliferous (Foraminifera) .....	45	360
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray, crystalline (much calcitized), dense, massive, fossiliferous (fragments and molds of megafossils, bryozoan remains, and some Foraminifera) .....	18	378
Limestone: white, somewhat crystalline (much calcitized), fossiliferous (abundant bryozoan remains and some Foraminifera) .....	30	408
Limestone: light-gray, crystalline (highly calcitized), dense, pyritiferous, coarsely glauconitic at depth, fossiliferous (macroshells, abundant echinoid and bryozoan remains, and Foraminifera) .....	77	485
Limestone: cream, somewhat softer than above, granular (in texture), fossiliferous (macroshells, abundant echinoid and bryozoan remains, and Foraminifera) .....	209	694
<i>Camerina striatoreticulata</i> , <i>Gypsina globula</i> , <i>Operculina mariannensis</i> prominent at 490-500. <i>Lepidocyclina antillea</i> <sup>1</sup> at 559-569.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: white to light-gray, massive, crystalline, coarsely but sparsely glauconitic, fossiliferous (fragments, casts and molds of megafossils, abundant echinoid and bryozoan remains, and some Foraminifera); interbedded limestone, light-gray, saccharoidal .....	132	826
<i>Lepidocyclina antillea</i> ? at 699-709. <i>Asterocyclina monticellensis</i> at 696-706.		
Limestone: cream, granular, cherty, pyritiferous .....	110	936
<b>Tallahatta Formation:</b>		
Limestone: cream, granular, cherty, pyritiferous, abundantly glauconitic, fossiliferous (Foraminifera) .....	20	956
<i>Asterocyclina</i> sp., <i>Cibicides blanpiedi</i> at 936-946.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

**Summary:**

	Thickness (feet)	Depth (feet)
No samples .....	60	60
In Pliocene to Recent (undifferentiated).....	10	70
Miocene (undifferentiated) .....	230	300
Oligocene (undifferentiated) .....	60	360
Upper Eocene (Ocala limestone).....	334	694
Middle Eocene (Lisbon formation).....	242	936
Middle Eocene (Tallahatta formation).....	20	956

**Potential Water-Bearing Zones:**

Limestone .....	526	826
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**CHATHAM COUNTY**

Location: Isle of Hope  
 Driller: A. E. Cory and Son  
 Drilled: 1956

Well No.: GGS 535  
 Elev.: 16<sup>1</sup>

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: fine-grained to coarser-grained at depth, finely disseminated phosphatic grains; interbedded clay, dark-gray to black, somewhat fissile, lignitic, micaceous, fossiliferous (megafossils at certain levels).....	50	50
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Macroshells prominent at 15-30.

**Miocene (Undifferentiated):**

Clay: dark-green, sandy, much sandier at depth, phosphatic.....	140	190
Limestone: light-gray to light-brown, very dense (much calcitized), sandy, phosphatic, dolomitized at certain levels, fossiliferous (casts and molds of megafossils).....	45	235

**Oligocene (Undifferentiated):**

Limestone: light-gray, dense (much calcitized), granular, crystalline, sandy, fossiliferous (some echinoid remains and Foraminifera) .....	45	280
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*Rotalia mexicana* var., *Quinqueloculina* sp. at 240-250.

*Dictyoconus*<sup>2</sup> sp., *Nonionella hantkeni* var. at 260-270.

<sup>1</sup>Average elevation taken from State Highway map.

<sup>2</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Limestone: cream, rather massive, somewhat oolitic, fossiliferous (casts and molds of megafossils and some Foraminifera) .....	40	320

**Summary:**

Pliocene to Recent (undifferentiated) .....	50	50
Miocene (undifferentiated) .....	185	235
Oligocene (undifferentiated) .....	85	320

**Potential Water-Bearing Zones:**

Limestone .....	85	320
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**CHATHAM COUNTY**

Location: Mendel Avenue, Savannah  
 Owner: No. 1 M. P. Linskey  
 Driller: H. L. Penton  
 Drilled: 1958

Well No.: GGS 561  
 Elev.: 17

	Thickness (feet)	Depth (feet)
No samples .....	15	15

**In Pliocene to Recent (Undifferentiated):**

Sand: fine-grained, subangular, sparsely phosphatic; some clay, dark-gray to dark-green, silty, micaceous, carbonaceous, fossiliferous (macroshells) .....	70	85
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First observed macroshells at 20-25.

**Miocene (Undifferentiated):**

Clay: dark-green, blocky, sandy, phosphatic; interbedded sand, fine to medium-grained, subangular, phosphatic .....	105	190
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Reddish-brown to jet-black phosphatic pebbles common at 85-100.

Light-brown, saccharoidal, sandy, phosphatic, dolomitic limestone at 190.

Clay: yellowish-green, blocky, tough, sandy, phosphatic; interbedded sand, fine to medium-grained, subangular, phosphatic .....	38	228
No samples .....	2	230

	Thickness (feet)	Depth (feet)
<b>In Oligocene (Undifferentiated):</b>		
Limestone: cream, soft, chalky, sandy, fossiliferous (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	20	250
No samples .....	10	260
Limestone: cream, somewhat nodular and calcitized, rather massive, fossiliferous (macroshells, bryozoan remains, Ostracods and Foraminifera).....	90	350
<i>Textularia</i> sp., <i>Robulus</i> sp., <i>Discorbis</i> sp., <i>Nonionella hantkeni</i> var. <i>byramensis</i> , <i>Cibicides americanus</i> at 260-270.		
<i>Asterigerina subacuta</i> , <i>Nonionella hantkeni</i> var. <i>byramensis</i> at 290-305.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 305-325.		
<i>Miliolidae</i> common at 320-330.		
<i>Gypsina globula</i> <sup>1</sup> , <i>Dictyoconus</i> <sup>1</sup> sp. at 330-350.		

#### Summary:

No samples .....	15	15
In Pliocene to Recent (undifferentiated).....	70	85
Miocene (undifferentiated) .....	143	228
No samples .....	2	230
In Oligocene (undifferentiated).....	120	350

#### Potential Water-Bearing Zones:

Limestone .....	120	350
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#### CHATHAM COUNTY

Location: Ferguson Avenue, Savannah  
 Owner: No. 1 R. Knight  
 Driller: H. L. Penton  
 Drilled: 1958

Well No.: GGS 562  
 Elev.: 20

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, subangular; some clay, dark-gray to dark-green, silty, micaceous, carbonaceous, fossiliferous (macroshells at certain levels).....	80	80
First observed macroshells at 30-40.		

<sup>1</sup>Reworked(?) fossil of middle Eocene age.





	Thickness (feet)	Depth (feet)
Sand: coarse-grained, subrounded, sparsely phosphatic.....	10	65
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic; sand, as above.....	54	119
Reddish-brown to jet-black, phosphatic pebbles common at 65-70.		
Dolomitic limestone: light-brown, dense, saccharoidal, sandy, abundantly phosphatic .....	1	120
Clay: yellowish-green, blocky, somewhat tough, sandy, phos- phatic .....	30	150
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, soft, chalky, powdery, nodular and massive at depth, fossiliferous (fragments and molds of macroshells, echinoid and bryozoan remains, and Foraminifera).....	95	245
<i>Asterocyclina</i> <sup>1</sup> sp. at 165-175. <i>Textularia</i> sp., <i>Discorbis</i> sp., <i>Gypsina globula</i> <sup>1</sup> , <i>Cibicides</i> <i>lobatulus</i> at 175-185. <i>Nonionella oligocenica</i> , <i>Rotalia mexicana</i> var., <i>Dictyoconus</i> sp. <sup>1</sup> at 185-195.		
Limestone: light-gray, much calcitized, somewhat nodular, massive, sandy, fossiliferous (as above).....	10	255
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, somewhat crystalline and calcitized, fos- siliferous (abundant bryozoan remains and frequent Ostra- cods and Foraminifera).....	110	365
<i>Robulus arcuato-striatus</i> var. <i>carolinianus</i> , <i>Robulus alato-</i> <i>limbatus</i> , <i>Guttulina irregularis</i> , <i>Guttulina spicaeformis</i> , <i>Siphonina jacksonensis</i> , <i>Alabama obtusa</i> , <i>Lingulina</i> sp., <i>Planularia</i> sp., <i>Cibicides lobatulus</i> , <i>Planulina cocoaensis</i> , <i>Asterocyclina nassauensis</i> , <i>Operculinoides floridensis</i> at 255-265.		
Limestone: white, crystalline, somewhat saccharoidal, coarsely but sparsely glauconitic.....	30	395
Limestone: cream, considerably calcitized, granular.....	5	400

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	65	65
Miocene (undifferentiated) .....	85	150
Oligocene (undifferentiated) .....	105	255
Upper Eocene (Ocala limestone) .....	145	400

**Potential Water-Bearing Zones:**

Limestone .....	250	400
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**CHATTAHOOCHEE COUNTY**

Location: Near elevated steel reservoir, Harmon Church, Fort Benning Military Reservation

Well No.: GGS 18

Elev.: 445

Owner: U.S. (Army) Govt.

Driller: Layne-Atlantic Company

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Blufftown and Eutaw Formations (Undifferentiated):</b>		
Sand: fine to medium-grained, angular, limonitic, micaceous.....	60	60
Sand: as above; some clay, lignitic, micaceous.....	60	120
Clay: gray to light-brown, lignitic, micaceous, fossiliferous (macroshells) .....	140	260
Sand: fine to coarse-grained, crystals of calcium sulfate.....	40	300
Clay: as above, but becoming somewhat mottled at depth; interbedded sand, fine to coarse-grained, angular, gypsiferous....	94	394
<b>In Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, arkosic.....	90	484
<b>Summary:</b>		
Upper Cretaceous (Blufftown and Eutaw formations, undifferentiated) .....	394	394
In Upper Cretaceous (Tuscaloosa formation).....	90	484

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	40	300
Sand: fine to coarse-grained.....	41	435

**Remarks:**

Ground water derived from water-bearing sand at depth 260-300 is probably mineralized on account of the included crystals of calcium sulfate.

**CHATTAHOOCHEE COUNTY**

Location: South side of Upatoi Creek, west  
side of Engineering Building, Fort Benning  
Military Reservation

Well No.: GGS 332  
Elev.: 240

Owner: No. 1 Fort Benning Engineering School  
Driller: Layne-Atlantic Company  
Drilled: November 1952

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Eutaw Formation:</b>		
Sand: yellow, fine to medium-grained, argillaceous.....	5	5
Sand: as above; some clay, gray, micaceous.....	10	15
Sand: fine to coarse-grained, angular, somewhat arkosic.....	27	42
<b>Tuscaloosa Formation:</b>		
Kaolin: gray to somewhat mottled at depth, micaceous, sandy....	32	74
Sand: fine to coarse-grained, angular, arkosic, micaceous; in- terbedded clay, gray to pale-green, somewhat waxy, micaceous	233	307

**Summary:**

Upper Cretaceous (Eutaw formation) .....	42	42
Upper Cretaceous (Tuscaloosa formation) .....	265	307

**Potential Water-Bearing Zones:**

Sand: coarse-grained .....	21	166
Sand: coarse-grained .....	27	213
Sand: coarse-grained .....	39	307

**Remarks:**

On the basis of other knowledge of this area it is felt that even better water-bearing sands occur at depths below total depth of above well.

**CHATTAHOOCHEE COUNTY**

Location: 0.25 mi. south of junction of Highways 26 and 280, few hundred yd. west of Highway 280, in Cusseta  
 Well No.: GGS 341  
 Elev.: 550  
 Owner: No 1 City of Cusseta  
 Driller: Layne-Atlantic Company  
 Drilled: May 1953

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Cusseta Sand:</b>		
Sand: fine to coarse-grained, angular; interbedded clay, mottled (light-gray to red), micaceous, sandy.....	60	60
<b>Blufftown Formation:</b>		
Clay: tan to dark-gray to black at depth, carbonaceous, micaceous; interbedded sand, fine to medium-grained, angular, micaceous .....	94	154
Limestone: gray, dense, crystalline, sandy, fossiliferous (macroshells) .....	6	160
Clay: dark-gray to black, carbonaceous, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera at depth) .....	70	230
Clay (or marl): as above .....	75	305
<i>Vaginulina texana</i> at 230-240. <i>Kyphopyxa christneri</i> at 275-285.		
Sand: fine to medium-grained, angular; interbedded clay, as above .....	91	396
Clay (or marl): as above .....	31	427
Sand: fine to medium-grained, angular, micaceous; interbedded clay, as above.....	111	538
<b>Eutaw Formation:</b>		
Shale: dark greenish-gray to black, fissile, chloritic, carbonaceous, fossiliferous at certain levels (macroshells and Ostracods) .....	54	592

	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained, indurated at depth, abundantly micaceous, phosphatic, fossiliferous (macroshells and some Ostracods at certain horizons) .....	60	652
<b>Tuscaloosa Formation: Upper Part:</b>		
Sand: medium to coarse-grained, angular, arkosic, scattered grains of "rose quartz" <sup>1</sup> ; interbedded clay, mottled (yellowish to dark-green to red), somewhat fissile and splintery, iron-stained (particularly the green-colored clay), micaceous, sandy .....	318	970
<b>Middle Part:</b>		
Clay: mottled (dark-green to tan to red), somewhat fissile and splintery, iron-stained (particularly the green-colored clay), micaceous, sandy; interbedded sand, medium to coarse-grained, angular, arkosic .....	133	1,103
<b>Lower Part:</b>		
Sand: medium to coarse-grained, rather massive, angular, arkosic; interbedded clay, as above .....	82	1,185
<b>Basement Complex (Undifferentiated):</b>		
Crystalline rock: light-gray, argillaceous (weathered), to dense, dark-gray (fresh, unweathered), abundantly micaceous <sup>2</sup> .....	20	1,205
<b>Summary:</b>		
Upper Cretaceous (Cusseta sand) .....	60	60
Upper Cretaceous (Blufftown formation) .....	478	538
Upper Cretaceous (Eutaw formation) .....	114	652
Upper Cretaceous (Tuscaloosa formation) .....	533	1,185
Basement complex (undifferentiated) .....	20	1,205
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to medium-grained .....	111	538
Sand: medium to coarse-grained .....	318	970
Sand: medium to coarse-grained .....	82	1,185

<sup>1</sup>Not pure rose quartz, but iron-stained grains of quartz.<sup>2</sup>Mostly biotite mica.

**Remarks:**

Owing to unusually deep dissection (rugged topography), it is possible that the sands above 538 feet may be dry through ground-water leakage (spring discharge). Hence, in order to be safe, water wells in this area should be completed in the more deeply-buried sands of Tuscaloosa age.

**CLAY COUNTY**

Location: 0.9 mi. east of intersection of Highways 37 and 39, 0.4 mi. north of Highway 37, in Fort Gaines  
 Well No.: GGS 402  
 Elev.: 390  
 Owner: No. 1 Speight School  
 Driller: Layne-Atlantic Company  
 Drilled: August 1954

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Sand: fine to coarse-grained; clay, tan to red (mottled), sandy, limonitic; some limestone, yellow, much leached, iron-stained, fossiliferous at depth (bryozoan remains and Foraminifera) .....	27	27
Limestone: as in above sample .....	18	45
<i>Cibicides westi</i> at 27-35.		
Clay: yellowish-green, sandy, somewhat indurated; some limestone, gray, dense, crystalline, sandy, fossiliferous (macroshells) .....	21	66
Clay: yellowish-green, with tan to red streaks (somewhat mottled), blocky, micaceous; some limestone, as above.....	20	86
<b>Tallahatta Formation:</b>		
Clay: yellowish-green to light-gray, blocky, somewhat indurated and tough at depth, micaceous, fossiliferous (some Foraminifera); limestone, light-gray, dense, sandy, coarsely glauconitic .....	24	110
<i>Cibicides tallahattensis</i> , <i>Valvulineria jacksonensis</i> var. at 86-110.		
Sand: fine to coarse-grained, subangular grains, sparsely phosphatic, indurated at depth, fossiliferous (a coquina).....	80	190
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray, sandy, carbonaceous, micaceous, pyritiferous and fossiliferous at depth (some Foraminifera); limestone, gray, dense, coarsely glauconitic, sandy.....	19	209
<i>Eponides dorfi</i> , <i>Anomalina</i> sp., <i>Asterigerina</i> sp. at 190-209.		

	Thickness (feet)	Depth (feet)
Clay: as above .....	103	312
Sand: fine to medium-grained, subangular, abundantly glauconitic; some clay, as above.....	20	332

**Paleocene: Midway Group: Clayton Formation:**

Clay: gray to tan to red (mottled), sandy, micaceous, bauxitic(?); sand, fine to coarse-grained, subangular, scattered grains of pale-green quartz.....	18	350
Clay (or fuller's earth): light-gray, sandy, carbonaceous, micaceous .....	20	370
Indurated sand: fine-grained, somewhat argillaceous, glauconitic, fossiliferous (Foraminifera).....	20	390

*Operculinoïdes catenula* common at 385-391.

Limestone: light-gray, somewhat argillaceous, sandy, fossiliferous (casts and fragments of megafossils, bryozoan remains, Ostracods, and Foraminifera).....	110	500
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**Summary:**

Middle Eocene (Lisbon formation) .....	86	86
Middle Eocene (Tallahatta formation) .....	104	290
Lower Eocene (Wilcox group, undifferentiated) .....	142	332
Paleocene (Clayton formation) .....	168	500

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	80	190
Limestone .....	110	500

**Remarks:**

A fault, postulated on the different sections penetrated by this well and well 435, is indicated between this well and well 435. Accordingly, this well, on account of its much thicker, much more complete section, probably represents the down-thrown side (of the fault). More drilling is needed before the amount of throw, or displacement, can be determined.



## CLAY COUNTY

Location: Northeast part of town, top of high hill, at elevated steel reservoir, in Fort Gaines Well No.: GGS 435  
Elev.: 400

Owner: No. 2 City of Fort Gaines

Driller: Layne-Atlantic Company

Drilled: 1955

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Sand: fine to coarse-grained, subangular; clay, brick-red, sandy, limonitic .....	43	43
Sand: fine to coarse-grained, subangular; limestone, yellowish and leached, sandy; some clay, yellowish-green with some gray to chocolate-colored, blocky, carbonaceous, sandy, micaceous; fragments of buhrstone (latter at depth), dark-gray to brown, extremely dense, opaque, and crystalline.....	41	84
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray, silty, carbonaceous; limestone, light-gray, dense, saccharoidal, coarsely glauconitic; sand, as above.....	41	125
Clay: dark-gray, silty, carbonaceous, pyritiferous .....	72	197
Sand: fine to medium-grained, subangular, indurated at certain levels, abundantly glauconitic.....	31	228
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine to coarse-grained, subangular, scattered grains of pale-green quartz .....	41	269
Clay (or fuller's earth): light-gray, silty, blocky, carbonaceous, micaceous; some sand, as above.....	29	298
Sand: coarse-grained, subangular; some clay, as above.....	5	303
Limestone: light-gray, somewhat soft and chalky, fossiliferous (fragments and casts of megafossils, bryozoan remains, Ostracods, and some Foraminifera).....	79	382
<i>Argyrotheca</i> sp. at 310-330.		
<i>Anomalina midwayensis</i> at 330-351.		
<i>Discorbis midwayensis</i> var. at 351-371.		
Limestone: as above but dense (much calcitized), pyritiferous, sandy, sandier with depth.....	73	455

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Middle Eocene (Tallahatta formation) .....	84	84
Lower Eocene (Wilcox group, undifferentiated) .....	144	228
Paleocene (Clayton formation) .....	227	455

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	41	269
Limestone .....	149	455

**CLAY COUNTY**

Location: Approximately 5 mi. west of Bluffton  
 Owner: No. 1 H. B. Hightower  
 Driller: Layne-Atlantic Company  
 Drilled: 1955

Well No.: GGS 464  
 Elev.: 400

	Thickness (feet)	Depth (feet)
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**Middle Eocene: Claiborne Group: Lisbon Formation:**

Sand: fine to coarse-grained; some clay, gray to red (mottled), sandy, limonitic .....	57	57
Sand: fine to coarse-grained; interbedded stringers of clay, yellowish-green, sandy, micaceous .....	23	80
Sand: coarse-grained; some clay, tan to dark-brown, sandy .....	15	95
Limestone: yellowish-green to cream, dense, sandy, sparsely phosphatic, fossiliferous (fragments and molds of megafossils, Ostracods, and Foraminifera) .....	51	146

*Cibicides westi* at 95-100.

**Tallahatta Formation:**

Sand: fine to coarse-grained, subangular, sparsely phosphatic; some clay, yellowish-green with red streaks (mottled), sandy, micaceous .....	82	228
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*Cibicides tallahattensis*, *Valvulineria danvillensis* var. at 228-238.

**Lower Eocene: Wilcox Group (Undifferentiated):**

Clay: dark-gray, sandy, carbonaceous, micaceous; limestone, light-gray, dense, crystalline, sandy, coarsely glauconitic, fossiliferous (some macroshells) .....	21	249
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	Thickness (feet)	Depth (feet)
Clay: dark-gray, sandy, carbonaceous, micaceous, pyritiferous.....	116	365
Sand: fine to medium-grained, subangular, abundantly glauconitic .....	13	378
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine to coarse-grained, subangular, grains of pale-green quartz .....	14	392
Clay: dark-gray, silty, carbonaceous, fossiliferous at depth (Ostracods and Foraminifera).....	38	430
<i>Eponides dorfi</i> , <i>Robulus wilcoxensis</i> , <i>Valvulineria wilcoxensis</i> , <i>Valvulineria scrobiculata</i> at 392-412.		
Limestone: light-gray, dense, crystalline but somewhat argillaceous and "earthy," pyritiferous, fossiliferous (fragments and molds of megafossils, bryozoan remains, and some Foraminifera) .....	24	454
<i>Robulus midwayensis</i> at 422-433.		

**Summary:**

Middle Eocene (Lisbon formation) .....	146	146
Middle Eocene (Tallahatta formation) .....	82	228
Lower Eocene (Wilcox group, undifferentiated) .....	150	378
Paleocene (Clayton formation) .....	76	454

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	14	392
Limestone .....	24	454

**CLAY COUNTY**

Location: At City Water Works in Fort Gaines      Well No.: GGS 556  
 Owner: No. 3 City of Fort Gaines                      Elev.: 146  
 Driller: Layne Atlantic Company  
 Drilled: 1958

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: gray to tan to reddish-brown (somewhat mottled), sandy, limonitic .....	11	11
Sand: medium-grained, angular, limonitic.....	5	16

	Thickness (feet)	Depth (feet)
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: as above; marl, black, carbonaceous, micaceous, fossiliferous (macroshells, echinoid spines, Ostracods and Foraminifera) .....	7	23
<i>Robulus</i> sp., <i>Valvulineria wilcoxensis</i> , <i>Valvulineria scrobiculata</i> , <i>Eponides dorfi</i> at 16-23.		
Sand: fine to coarse-grained, angular; marl, as above.....	77	100
Limestone: gray, dense, crystalline, sandy, pyritiferous, fossiliferous (fragments, casts and molds of megafossils, bryozoan remains and Foraminifera) .....	34	134
<i>Robulus midwayensis</i> , <i>Discorbis midwayensis</i> var. <i>trinitensis</i> at 105-116.		
Sand: medium-grained, angular.....	27	161
Marl: gray, silty, micaceous; limestone, as above.....	6	167
<i>Eponides lotus</i> at 161-167.		
Limestone: gray, dense, crystalline, sandy, coarsely glauconitic, fossiliferous (fragments, casts and molds of megafossils) .....	6	173
Sand: fine to coarse-grained, angular.....	14	187
<b>Upper Cretaceous: Providence Sand:</b>		
Marl: dark, bluish-gray to black, highly micaceous, carbonaceous, sandy, pyritiferous; sand, as above.....	21	208
Sand: fine to coarse-grained, angular, somewhat arkosic, indurated at certain horizons; interbedded stringers of marl, gray, sandy, micaceous, fossiliferous at certain levels (macroshells, Ostracods and Foraminifera).....	161	369
<i>Anomalina clementiana</i> at 213-223.		
<i>Anomalina pseudopapillosa</i> , glauconite prominent at 322-331.		
<b>Ripley Formation:</b>		
Marl: gray, sandy, micaceous .....	41	410
Marl: dark bluish-gray to black, silty, very micaceous, carbonaceous, pyritiferous, sideritic, fossiliferous (macroshells, Ostracods and Foraminifera).....	59	469
<i>Robulus munsteri</i> at 410-431.		
<i>Robulus munsteri</i> , <i>Gaudryina rudita</i> at 431-469.		

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	16	16
Paleocene (Clayton formation) .....	171	187
Upper Cretaceous (Providence sand) .....	182	369
Upper Cretaceous (Ripley formation) .....	100	469

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	14	187
Sand: fine to coarse-grained .....	161	369

**CLINCH COUNTY**

Location: 5 mi. east of Stockton  
 Owner: No. 1 J. E. Mathews  
 Driller: Winter Hardware Company  
 Drilled: March 1942

Well No.: GGS 86  
 Elev.: 187

	Thickness (feet)	Depth (feet)
No samples .....	10	10

**In Pliocene to Recent (Undifferentiated):**

Sand: medium-grained, subrounded; (near bottom of interval) clay, brownish-gray .....	10	20
Clay: rather dark-brownish-gray, blocky, sandy, more sandy with depth .....	20	40
Clay: as above but much sandier, light-brown to jet-black, polished, phosphatic pebbles <sup>1</sup> .....	60	100

**Miocene (Undifferentiated):**

Clay: pale-yellowish-green, sandy, somewhat phosphatic .....	40	140
Clay: as above but somewhat indurated, tough .....	20	160
Limestone: white to cream, much calcitized, somewhat saccharoidal, sandy .....	20	180

**Summary:**

No samples .....	10	10
In Pliocene to Recent (undifferentiated) .....	90	100
Miocene (undifferentiated) .....	80	180

**Potential Water-Bearing Zones:**

Limestone .....	20	180
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<sup>1</sup>Reworked from older beds of Miocene age.

**Remarks:**

More copious water supplies may be obtained by drilling deeper (than 180) into the water-bearing, underlying limestones of Oligocene and upper Eocene age.

**CLINCH COUNTY**

Location: 17 mi. south of Homerville, Land Lot 200, 12th Land District  
 Well No.: GGS 124  
 Elev.: 187  
 Owner: No. 1 Gillican  
 Driller: Georgia Resources Company  
 Drilled: 1940

	Thickness (feet)	Depth (feet)
No samples .....	248	248
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-green, blocky, sandy .....	14	262
No samples .....	12	274
Sand: fine to coarse-grained, angular, somewhat arkosic, phosphatic .....	51	325
Clay: light-gray, sandy .....	3	328
Limestone: white, dense, sandy .....	22	350
Sand: fine to medium-grained, angular, phosphatic.....	10	360
Limestone: white, dense, sandy .....	10	370
Sand: as above, interbedded dolomitic limestone, light-brown, saccharoidal .....	75	445
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, nodular, considerably calcitized, fossiliferous (macroshells, echinoid and bryozoan remains, and some Foraminifera) .....	75	520
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, fossiliferous (megafossils, echinoid and bryozoan remains, and Foraminifera).....	180	700
<i>Asterocyclina</i> sp., <i>Operculinoides</i> sp., <i>Heterostegina</i> sp., <i>Gypsina globula</i> at 520.		
<i>Camerina striatoreticulata</i> , <i>Amphistegina pinarensis</i> var. at 690-700.		

	Thickness (feet)	Depth (feet)
Dolomitic limestone: light-brown, saccharoidal .....	23	723
No samples .....	72	795

**In Middle Eocene: Claiborne Group (Undifferentiated):**

Dolomitic limestone: light to dark-brown, saccharoidal, gypsiferous at certain horizons; interbedded limestone, gray to cream, fossiliferous at certain levels (Foraminifera) .....	397	1,192
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*Cribrobulimina floridana* at 862-868.

Limestone: cream to light-brown (latter dolomitic at certain levels), much calcitized, crystalline, cherty, fossiliferous (abundant Foraminifera at certain horizons) .....	315	1,507
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**Summary:**

No samples .....	248	248
In Miocene (undifferentiated) .....	197	445
Oligocene (undifferentiated) .....	75	520
Upper Eocene (Ocala limestone) .....	203	723
No samples .....	72	795
In middle Eocene (Claiborne group, undifferentiated) .....	712	1,507

**Potential Water-Bearing Zones:**

Limestone .....	255	700
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**Remarks:**

The rocks below depth of 700 are predominantly gypsiferous dolomitic limestones, which yield mineralized water. Wells, therefore, should not be drilled below 700 in this area.

**COFFEE COUNTY**

Location: 75 ft. southeast of school building in Ambrose      Well No.: GGS 236  
 Owner: No. 1 Ambrose School      Elev.: 310  
 Driller: H. B. Truluck  
 Drilled: September 1951

	Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Clay: bluish-gray to red (mottled), sandy, limonitic .....	20	20
Sand: fine to medium-grained, angular .....	20	40

	Thickness (feet)	Depth (feet)
Clay: pale-green, blocky, sandy, phosphatic and fossiliferous at depth (macroshells); interbedded sand, fine to medium-grained, angular .....	385	425
Black phosphatic pebbles common at 280-310.		
Macroshells prominent at 410-425.		
Limestone: gray, sandy, fossiliferous (casts and molds of megafossils) .....	60	485
<i>Archaias</i> sp. at 425-435.		

**Summary:**

Miocene (undifferentiated) .....	485	485
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**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	10	410
Limestone .....	60	485

**Remarks:**

Better and more productive water-bearing limestones lie deeper than the total depth (485) of above well.

**COFFEE COUNTY**

Location: Southern part of County, about 12 mi. south of Ambrose, in Heabern  
 Owner: No. 1 Heabern School  
 Driller: H. B. Truluck  
 Drilled: October 1951

Well No.: GGS 243  
 Elev.: 198

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: bluish-gray to red (mottled), sandy, limonitic .....	20	20
Clay: light-gray, blocky, cherty at certain horizons, sandy, phosphatic at depth; interbedded sand, fine to coarse-grained, angular .....	220	240
Light-gray phosphatic pebbles at 130-140.		
Black phosphatic pebbles at 190-200.		
Dolomitic limestone: light-brown, saccharoidal .....	40	280
Chert bed .....	10	290



	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Miocene (undifferentiated) .....	290	290

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	10	110
Dolomitic limestone .....	40	280

**Remarks:**

Dolomitic limestone yields mineralized water. The above well should have been drilled deeper in order to obtain water from Oligocene and upper Eocene limestones.

**COFFEE COUNTY**

Location: In Nicholls  
 Owner: City of Nicholls  
 Driller: M. M. Gray Drilling Company  
 Drilled: 1955

Well No.: GGS 434  
 Elev.: 180<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: bluish-gray to red (mottled) sandy, limonitic .....	30	30
Sand: fine to coarse-grained, angular, arkosic .....	40	70
Clay: pale-green, sandy, phosphatic at depth; interbedded sand, fine to medium-grained, angular.....	110	180
Clay: light-gray to pale-green, blocky, sandy, phosphatic.....	110	290
Limestone: white, dense, crystalline, much calcitized, sandy .....	30	320
Clay: as above, but somewhat sandier .....	30	350
Limestone: white, dense, crystalline, much calcitized, sandy, phosphatic, fossiliferous (casts and molds of megafossils).....	20	370
No samples .....	20	390
Limestone: as above .....	10	400

<sup>1</sup>Average elevation taken from State Highway map.

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: gray to cream to light-brown at depth, rather massive, nodular, crystalline, somewhat saccharoidal, much calcitized, fossiliferous (casts and molds of Gastropods, some bryozoan remains and Foraminifera) .....	110	510
<i>Pyrgo</i> sp. at 400-410.		
<i>Quinqueloculina</i> sp., <i>Rotalia mexicana</i> var. at 410-420.		
<i>Dictyoconus</i> sp. <sup>2</sup> at 420-430.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: as above, but light-gray and more calcitized at depth, fossiliferous (bryozoan remains and abundant Foraminifera) .....	90	600
<i>Lepidocyclina</i> sp., <i>Operculinoides floridensis</i> at 510-520.		
<i>Asterocyclina</i> sp., <i>Operculinoides</i> sp. abundant at 530-540.		

**Summary:**

Miocene (undifferentiated) .....	400	400
Oligocene (undifferentiated) .....	110	510
Upper Eocene (Ocala limestone) .....	90	600

**Potential Water-Bearing Zones:**

Limestone .....	200	600
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**COFFEE COUNTY**

Location: 200 ft. from north line, 2,000 ft. from east line of Land Lot 275, 1st Land District      Well No.: GGS 445  
 Elev.: 193  
 Owner: No. 1-A Nina McLean  
 Driller: Carpenter Oil Company  
 Drilled: August 1954

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, light-gray to pale-green, sandy, phosphatic and fossiliferous at depth (macroshells) .....	200	200

<sup>2</sup>Reworked(?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Limestone: white, dense, sandy, phosphatic, fossiliferous at certain levels (casts and molds of megafossils).....	90	290
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, massive, highly calcitized and crystalline, somewhat sandy, fossiliferous (some megafossils, bryozoan remains, and Foraminifera).....	110	400
<i>Quinqueloculina</i> sp., <i>Rotalia mexicana</i> var., <i>Gypsina globula</i> <sup>1</sup> at 300-310.		
White, somewhat soft and granular limestone carrying <i>Lepidocyclina</i> <sup>1</sup> sp. at 340-350.		
<i>Lepidocyclina</i> <sup>1</sup> sp. at 380-390.		
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, somewhat soft and granular, fossiliferous (some bryozoan remains and Foraminifera); considerable limestone, as above.....	50	450
<i>Lepidocyclina</i> sp., <i>Robulus arcuato-striatus</i> var., <i>Gypsina globula</i> at 400-410.		
<i>Operculinoides floridensis</i> common at 430-440.		
Limestone: white, much calcitized, rather granular and loosely consolidated at depth, very fossiliferous, some macroshells, bryozoan remains, and abundant Foraminifera.....	125	575
<i>Operculinoides floridensis</i> and <i>Asterocyclina nassauensis</i> common at 500-510.		
Limestone: as above; interbedded dolomitic(?) limestone, brown, saccharoidal .....	100	675
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: cream, much calcitized, granular, cherty at certain levels, fossiliferous (echinoid and bryozoan remains and some Foraminifera) .....	155	830
<b>Tallahatta Formation:</b>		
Limestone: as above but glauconitic; interbedded brown limestone, saccharoidal, somewhat dolomitized?, glauconitic.....	85	915
<i>Operculinoides</i> sp., <i>Lepidocyclina</i> sp. at 840-850.		

<sup>1</sup>Reworked(?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Limestone: white to light-gray, rather massive, crystalline, glauconitic, sandy, fossiliferous (fragments and impressions of megafossils) .....	95	1,010
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Indurated sand to white limestone at depth: fine to medium-grained, subangular grains, coarsely but rather abundantly glauconitic; interbedded brown limestone, dark-brown, saccharoidal, glauconitic; sand, fine to coarse-grained, subangular .....	135	1,145
Indurated sand: light-gray, fine-grained, glauconitic, micaceous; interbedded beds of clay, greenish-gray, laminated, micaceous; limestone, dark-gray, dense, crystalline, sandy, finely glauconitic .....	85	1,230
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: light-gray, somewhat nodular, dense, crystalline, fossiliferous (fragments and molds of Gastropods) .....	60	1,290
Sand: fine to coarse-grained, subangular, indurated at certain levels; interbedded limestone, as above .....	230	1,520
<b>Upper Cretaceous (Undifferentiated):</b>		
Sand: fine to coarse-grained, indurated at certain levels, micaceous, pyritiferous; interbedded marl, gray, silty, somewhat chalky, micaceous, fossiliferous at certain levels (macroshells, Ostracods, and Foraminifera) .....	383	1,903
<i>Anomalina pseudopapillosa</i> at 1520-1530.		
<i>Gaudryina rudita</i> at 1670-1680.		
<i>Loxostoma plaitum</i> at 1680-1690.		
<b>Summary:</b>		
Miocene (undifferentiated) .....	290	290
Oligocene (undifferentiated) .....	110	400
In upper Eocene (Ocala limestone) .....	275	675
Middle Eocene (Lisbon formation) .....	155	830
Middle Eocene (Tallahatta formation) .....	180	1,010
Lower Eocene (Wilcox group, undifferentiated) .....	220	1,230
Paleocene (Clayton formation) .....	290	1,520
Upper Cretaceous (undifferentiated) .....	383	1,903

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	275	575
Limestone .....	155	830

**COLQUITT COUNTY**

Location: 80 ft. south of First Avenue at Water Works in Moultrie      Well No.: GGS 22  
 Owner: No. 4 City of Moultrie      Elev.: 308  
 Driller: Stevens Southern Drilling Company  
 Drilled: October 1943

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, subangular; clay, dark-gray to black, sandy, lignitic, limonitic.....	10	10
<b>Miocene (Undifferentiated):</b>		
Sand: fine-grained, phosphatic (finely disseminated); some clay, yellowish-green, somewhat indurated, tough.....	83	93
Clay: dark-green, somewhat indurated, blocky, sandy; interbedded limestone, white to light-brown (latter dolomitized, saccharoidal), rather massive, sandy.....	282	375
Limestone: white to light-brown (latter dolomitized, saccharoidal), massive, somewhat saccharoidal, sandy.....	95	470
Dolomitic limestone: dark-brown, massive, saccharoidal.....	25	495

**Oligocene (Undifferentiated):**

Limestone: light-gray to brown, nodular, crystalline, dense, much calcitized, fossiliferous (Ostracods and abundant Foraminifera); interbedded dolomitic limestone, dark-brown, saccharoidal, massive.....	50	545
<i>Rotalia mexicana</i> var., <i>Asterigerina</i> sp., <i>Lepidocyclina</i> sp. at 495-505.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Dolomitic limestone: light-brown, saccharoidal, massive.....	155	700
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	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Lisbon Formation</b>		
Limestone: cream, granular, much calcitized, fossiliferous (macroshells, echinoid and bryozoan remains and Foraminifera) .....	100	800
<i>Robulus alato-limbatus</i> , <i>Lenticulina fragaria</i> var., <i>Nodosaria latejugata</i> var., <i>Eponides jacksonensis</i> at 700-720. <i>Asterocyclina</i> sp. at 760-775.		

**Summary:**

Pliocene to Recent (undifferentiated).....	10	10
Miocene (undifferentiated) .....	485	495
Oligocene (undifferentiated) .....	50	545
Upper Eocene (Ocala limestone).....	155	700
Middle Eocene (Lisbon formation).....	100	800

**Potential Water-Bearing Zones:**

Limestone .....	100	800
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**Remarks:**

Dolomitic limestone yields hard water. The strata of Oligocene age in the above well are composed largely of dolomitic limestone. The underlying limestones of Ocala age constitute the principal source of ground water in this well.

**COLQUITT COUNTY**

Location: 760 ft. west of east line, 210 ft. north of south line, Land Lot 270, 8th Land District  
 Well No.: GGS 170  
 Elev.: 270  
 Owner: No. 1 D. G. Arrington (derrick floor)  
 Driller: R. T. Adams Drilling Company  
 Drilled: August 1948

	Thickness (feet)	Depth (feet)
No samples .....	120	120

**In Miocene (Undifferentiated):**

Clay: pale-green, sandy; interbedded limestone, white, dense, phosphatic, somewhat dolomitized at certain levels, sandy, fossiliferous at depth (casts and molds of megafossils).....

	270	390
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Casts and molds of megafossils prominent at 330-340.

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone .....	70	460
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Dolomitic limestone: dark-brown, saccharoidal .....	230	690
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Limestone: cream, calcitized and granular, somewhat loosely consolidated, cherty at certain levels .....	380	1,070
Limestone: as above but coarsely glauconitic .....	130	1,200
<i>Operculinoides</i> sp. at 1070-1080.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: light-gray, silty, micaceous, glauconitic with finely disseminated grains .....	35	1,235
Marl: as above but somewhat indurated, sandy, carbonaceous, micaceous .....	55	1,290
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: light-gray to white, dense, crystalline much calcitized, coarsely glauconitic, fossiliferous (macroshells and some Foraminifera) .....	30	1,320
<i>Pseudophragmina stephensoni</i> at 1290-1300.		
<i>Operculinoides catenula</i> at 1320-1330.		
Indurated sand: gray, dense, crystalline, somewhat argillaceous, glauconitic (finely disseminated), fossiliferous at certain levels (macroshells and Foraminifera) .....	130	1,450
Limestone: gray, dense, crystalline, coarsely glauconitic, fossiliferous (megafossils and some Foraminifera) .....	160	1,610
Limestone: as above, but cherty .....	70	1,680
<b>Cretaceous (Undifferentiated):</b>		
Marl: gray, silty, micaceous, chalky, pyritiferous, fossiliferous at certain levels (megafossils, Ostracods, and Foraminifera) .....	1,120	2,800
<i>Globotruncana</i> sp., <i>Gaudryina</i> sp., <i>Guembelina</i> sp. at 1680-1690.		
<i>Kyphopyxa christneri</i> at 2360-2370.		
<i>Vaginulina texana</i> at 2580-2590.		

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, somewhat indurated at certain horizons, glauconitic, phosphatic, fossiliferous (macroshells); interbedded clay or shale, greenish-gray, somewhat fissile, micaceous .....	220	3,020
Sand: coarse-grained, angular, arkosic; interbedded clay, dark-gray, laminated, micaceous.....	280	3,300
Shale: dark-gray, fissile, micaceous, carbonaceous.....	135	3,435
Shale: as above; interbedded sand, medium-grained, glauconitic, fossiliferous (macroshells).....	110	2,545
Clay: greenish-gray to purple, sandy, micaceous; interbedded sand, coarse-grained, angular, arkosic; and limestone, gray, crystalline, glauconitic .....	1,364	4,909

**Summary:**

No samples .....	120	120
In Miocene (undifferentiated) .....	270	390
Oligocene (undifferentiated) .....	70	460
Upper Eocene (Ocala limestone).....	230	690
Middle Eocene (Claiborne group, undifferentiated).....	510	1,200
Lower Eocene (Wilcox group, undifferentiated).....	90	1,290
Paleocene (Clayton formation).....	390	1,680
Cretaceous (undifferentiated) .....	3,229	4,909

**Potential Water-Bearing Zones:**

Limestone .....	70	460
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**Remarks:**

Except for Oligocene limestones, no good aquifers were observed in above well. All sands in the deeply buried Cretaceous strata doubtless contain salt water and are not suitable as sources of potable ground water.



## COLQUITT COUNTY

Location: Southeastern part of city, 0.6 mi. south of Georgia Northern R.R., east side of Second St., near concrete reservoir in Moultrie  
 Well No.: GGS 175  
 Elev.: 317  
 Owner: No. 5 City of Moultrie  
 Driller: Stevens Southern Drilling Company  
 Drilled: 1948

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic.....	50	50
Clay: yellowish-green, sandy; interbedded sand, fine to coarse-grained, angular, arkosic.....	200	250
Limestone: white, dense, sandy, dolomitized at certain levels; interbedded clay and sand, as above.....	210	460

**Oligocene (Undifferentiated):**

Limestone: cream, nodular, much calcitized, fossiliferous (casts and molds of molluscan shells, echinoid and bryozoan remains, and Foraminifera); interbedded tongues of partially dolomitized limestone, light-brown, somewhat saccharoidal, massive, fossiliferous (Foraminifera including abundant <i>Miliolids</i> ).....	80	540
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*Rotalia mexicana* var., *Asterigerina subacuta* at 460-470.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Dolomitic limestone: dark-brown, saccharoidal, unfossiliferous.....	160	700
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**Middle Eocene: Claiborne Group: Lisbon Formation:**

Limestone: cream, somewhat nodular, much calcitized, granular, fossiliferous (bryozoan remains and some Foraminifera).....	300	1,000
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*Lepidocyelina* sp. common at 700-710.

**Summary:**

Miocene (undifferentiated).....	460	460
Oligocene (undifferentiated).....	80	540
Upper Eocene (Ocala limestone).....	160	700
Middle Eocene (Lisbon formation).....	300	1,000

**Potential Water-Bearing Zones:**

Limestone.....	300	1,000
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**Remarks:**

Because the dolomitic limestone contains gypsum and yields hard water, it is not a good source of ground water. The best available aquifer in this well appears to be the interval 700-1000.

**COLUMBIA COUNTY**

**Location:** Approximately 1 mi. north of Highway 12 on top of high hill, in Grovetown  
**Owner:** No. 1 City of Grovetown  
**Driller:** Virginia Supply and Well Company  
**Drilled:** 1951

**Well No.:** GGS 264  
**Elev.:** 500

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Sand: argillaceous, tan, fine to medium-grained, limonitic; inclusions of kaolin, white, micaceous, somewhat sandy.....	40	40
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Clay (or kaolin): gray, sandy.....	40	80
Sand: yellow, fine to coarse-grained.....	8	88
Kaolin: white, abundantly micaceous, sandy.....	47	135
<b>Basement Complex (Undifferentiated):</b>		
Clay: yellow, very sandy, garnet and hornblende crystals.....	21	156
Crystalline rock.....	144	300

**Summary:**

Upper Eocene (Barnwell formation).....	40	40
Upper Cretaceous (Tuscaloosa formation).....	95	135
Basement complex (undifferentiated).....	165	300

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	8	88
Crystalline rock (fractures in).....	144	300

## COOK COUNTY

Location: In Lenox  
 Owner: City of Lenox  
 Driller: Layne-Atlantic Company  
 Drilled: June 1946

Well No.: GGS 25  
 Elev.: 300<sup>1</sup>

	Thickness (feet)	Depth (feet)
No samples .....	25	25
<b>In Miocene (Undifferentiated):</b>		
Sand: medium to coarse-grained, subangular, somewhat limonitic .....	7	32
Clay: mottled, sandy, limonitic.....	23	55
No samples .....	6	61
Clay: yellowish-green, very sandy.....	8	69
Clay: light-gray, somewhat indurated, tough, sandy.....	8	77
No samples .....	25	102
Clay: as above; some limestone, white, sandy, cherty.....	21	123
Limestone: white to cream at depth, sandy.....	154	277
No samples .....	17	294
Limestone: as above, but saccharoidal, somewhat dolomitized at certain levels, massive.....	?	294
No samples .....	24	318
Limestone: as above; fragments of limestone, gray, dense, nodular, somewhat sandy.....	40	358
No samples .....	41	399

**In Oligocene (Undifferentiated):**

Limestone: cream, nodular, much calcitized, rather massive, fossiliferous (bryozoan remains and increasing number (with increased depth) of Foraminifera)..... 92 491

*Lepidocyclina* cf. *L. mantelli* at 399.

*Dictyoconus*<sup>2</sup> sp., *Coskinolina*<sup>2</sup> sp. at 429.

*Asterocyclina*<sup>2</sup> sp. common, *Gypsina globula*<sup>2</sup> at 491

<sup>1</sup>Average elevation taken from State Highway map.

<sup>2</sup>Reworked(?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
No samples .....	25	25
In Miocene (undifferentiated) .....	333	358
No samples .....	41	399
In Oligocene (undifferentiated) .....	92	491

**Potential Water-Bearing Zones:**

Limestone .....	173	491
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**COOK COUNTY**

Location: In Adel  
 Owner: No. 4 City of Adel  
 Driller: Layne-Atlantic Company  
 Drilled: June 1946

Well No.: GGS 39  
 Elev.: 240

	Thickness (feet)	Depth (feet)
No samples .....	15	15
<b>In Miocene (Undifferentiated):</b>		
Clay: mottled, very sandy, limonitic .....	55	70
No samples .....	10	80
Clay: yellowish-green, blocky, sandy, phosphatic; interbedded limestone, light-gray to white, dense, somewhat saccharoidal, sandy; sand, fine-grained, angular, phosphatic (finely disseminated) .....	35	165
Gray, polished, phosphatic pebbles prominent at 80.		
No samples .....	20	185
Dolomitic limestone: light-brown, extremely dense, crystalline, somewhat sandy; some limestone as above.....	?	185
No samples .....	24	209
<b>In Oligocene (Undifferentiated):</b>		
Limestone: light-gray to cream at depth, nodular, much calcitized, rather dense, cherty, fossiliferous (bryozoan remains and some Foraminifera) .....	61	270

*Quinqueloculina* sp., *Dictyoconus*<sup>1</sup> sp. at 209-209½.

*Quinqueloculina* sp., *Rotalia mexicana* var. at 270.

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
No samples .....	15	15
In Miocene (undifferentiated).....	170	185
No samples .....	24	209
In Oligocene (undifferentiated).....	61	270

**Potential Water-Bearing Zones:**

Limestone .....	61	270
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**Remarks:**

Sample intervals too large for accurate determination of formational tops.

**COOK COUNTY**

Location: 6 mi. west of Adel, 2 mi. south of Adel-Moultrie  
 Highway, Land Lot 338, 9th Land District      Well No.: GGS 118  
 Owner: No. 1 D. F. Bruton      Elev.: 224<sup>1</sup>  
 Driller: W. B. Graham  
 Drilled: 1946

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic.....	60	60
Clay: gray to yellowish-green, sandy; interbedded sand, fine to coarse-grained, angular.....	80	140
Limestone: white, dense, crystalline, sandy; interbedded clay, yellowish-green, sandy .....	50	190
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray to cream, nodular, much calcitized, fos- siferous (bryozoan remains and some Foraminifera).....	90	280
<i>Rotalia mexicana</i> var. at 190-200.		
<i>Dictyoconus</i> <sup>2</sup> sp. at 270-280.		

**Summary:**

Miocene (undifferentiated) .....	190	190
Oligocene (undifferentiated) .....	90	280

<sup>1</sup>Average elevation taken from State Highway map.

<sup>2</sup>Reworked(?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	90	280

**Remarks:**

Samples of poor quality.

**COOK COUNTY**

Location: In Adel  
 Owner: No. 5 City of Adel  
 Driller: Layne-Atlantic Company  
 Drilled: June 1946

Well No.: GGS 122  
 Elev.: 246

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, very sandy, limonitic.....	93	93
Clay: yellowish-green, blocky, sandy; interbedded limestone at depth, white, dense, sandy; beds of sand, fine to coarse- grained, angular .....	107	200

**In Oligocene (Undifferentiated):**

Limestone: light-gray, nodular, dense, much calcitized, fossil-  
iferous (some bryozoan remains and Foraminifera)..... 70 270

*Rotalia mexicana* var. at 231.

**Summary:**

Miocene (undifferentiated) .....	200	200
In Oligocene (undifferentiated).....	70	270

**Potential Water-Bearing Zones:**

Limestone .....	70	270
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**Remarks:**

Samples of poor quality.

## CRISP COUNTY

Location: In Cordele  
 Owner: No. 3 City of Cordele  
 Driller: Layne-Atlantic Company  
 Drilled: May 1948

Well No.: GGS 155  
 Elev.: 330

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: gray to tan to red (mottled), very sandy.....	8	8
Clay: pale yellowish-green with red streaks (mottled), blocky, sandy .....	10	18
Sand: fine to coarse-grained, subangular, arkosic.....	11	29
Clay: light-brown, somewhat indurated, tough, very sandy.....	6	35
Clay: pale yellowish-green to dark-green with red streaks (mottled) at depth, blocky, sandy.....	54	89
Sand: fine to coarse-grained, subangular, arkosic.....	4	93
<b>Oligocene (Undifferentiated):</b>		
Limestone: gray, extremely dense and crystalline, cherty, fos- siliferous (some bryozoan remains and Foraminifera).....	3	96
<i>Rotalia mexicana</i> var. at 93-96.		
Limestone: yellow, nodular, somewhat calcitized, sandy, fos- siliferous (as above).....	67	163
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, much calcitized, saccharoidal, fossiliferous, (bryozoan remains and some Foraminifera).....	137	300
<i>Operculinoides</i> sp. at 173-248.		
<i>Lepidocyclina</i> sp. at 248-270.		
<i>Lepidocyclina</i> sp., <i>Gypsina globula</i> , <i>Camerina striatoreticu- lata</i> at 270-300.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Marl: light-gray, micaceous, glauconitic, fossiliferous (Fora- minifera); interbedded sand, fine to coarse-grained, angu- lar, phosphatic, glauconitic.....	71	371
<i>Asterigerina</i> sp., <i>Discorbis yeguaensis</i> at 300-330.		
<i>Asterigerina lisbonensis</i> , <i>Cibicides westi</i> at 330-371.		
Limestone: gray, dense, crystalline, sandy, fossiliferous at depth (a coquina).....	44	415

**Tallahatta Formation:**

Sand: fine to coarse-grained, angular, phosphatic, fossiliferous (abundant macroshells).....	78	493
Sand: fine to coarse-grained, angular, phosphatic.....	47	540

**In Lower Eocene: Wilcox Group (Undifferentiated):**

Clay: light-gray, silty, micaceous, carbonaceous.....	44	584
Clay: light-brown, somewhat indurated and tough; sand, fine to coarse-grained, abundantly glauconitic.....	91	675

**Paleocene: Midway Group: Clayton Formation:**

Limestone: light-gray, extremely dense, crystalline, sandy, coarsely glauconitic, fossiliferous (some bryozoan remains, casts and molds of megafossils, and some Foraminifera); clay, black, fissile, carbonaceous.....	110	785
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**Upper Cretaceous: Providence Sand:**

Sand: fine to coarse-grained, subangular.....	31	816
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**Summary:**

Miocene (undifferentiated).....	93	93
Oligocene (undifferentiated).....	70	163
Upper Eocene (Ocala limestone).....	137	300
Middle Eocene (Lisbon formation).....	115	415
Middle Eocene (Tallahatta formation).....	125	540
In lower Eocene (Wilcox group, undifferentiated).....	135	675
Paleocene (Clayton formation).....	110	785
Upper Cretaceous (Providence sand).....	31	816

**Potential Water-Bearing Zones:**

Limestone.....	52	300
Sand: fine to coarse-grained.....	125	540
Sand: fine to coarse-grained.....	91	675
Sand: fine to coarse-grained.....	11	707
Sand: fine to coarse-grained.....	31	816



## CRISP COUNTY

Location: 0.7 mi. south of Marshall near county road  
 Owner: No. 1 H. C. Wade  
 Driller: H. B. Truluck

Well No.: GGS 216  
 Elev.: 271

	Thickness (feet)	Depth (feet)
No samples .....	10	10

**In Residuum:**

Clay: mottled, sandy, lignitic, and fragments of residual limestone at depth.....	60	70
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**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: yellowish to white, fossiliferous (macroshells, echinoid and abundant bryozoan remains, and Foraminifera) ..	90	160
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*Siphonina jacksonensis* at 70-110.

*Operculina mariannensis* at 140-150.

*Lepidocyclina* sp. abundant at 150-160.

**Summary:**

No samples .....	10	10
In residuum .....	60	70
Upper Eocene (Ocala limestone).....	90	160

**Potential Water-Bearing Zones:**

Limestone .....	70	160
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## CRISP COUNTY

Location: In Arabi  
 Owner: No. 1 Marvin McKinney  
 Driller: H. B. Truluck

Well No.: GGS 225  
 Elev.: 449

	Thickness (feet)	Depth (feet)
No samples .....	80	80

**In Miocene (Undifferentiated):**

Clay: yellowish-green to red (mottled), sandy, arkosic.....	20	100
Sand: medium to coarse-grained, angular.....	15	115

	Thickness (feet)	Depth (feet)
Clay: yellowish-green, sandy; fragments of limestone, white, sandy .....	35	150
Sand: fine to coarse-grained, angular, and fragments of residual limestone .....	20	170
<b>Oligocene (Undifferentiated):</b>		
Limestone: white, fossiliferous (Foraminifera) .....	30	200
<i>Lepidocyclina</i> sp., <i>Asterigerina subacuta</i> at 170-180. <i>Rotalia mexicana</i> var. at 180-200.		
<b>Summary:</b>		
No samples .....	80	80
In Miocene (undifferentiated) .....	90	170
Oligocene (undifferentiated) .....	30	200

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	15	115
Sand: fine to coarse-grained .....	20	170
Limestone .....	30	200

**CRISP COUNTY**

Location: Veterans Memorial (State) Park  
 Owner: No. 2 Veterans Memorial (State) Park  
 Driller: Layne-Atlantic Company  
 Drilled: May 1951

Well No.: GGS 226  
 Elev.: 246

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: olive-green to tan, limonitic, sandy, sandier with depth .....	46	46
<b>Upper Eocene: Jackson Group: Cooper Marl:</b>		
Marl: cream, blocky, fossiliferous (Foraminifera) .....	20	66
<i>Siphonina jacksonensis</i> , <i>Eponides jacksonensis</i> , <i>Eponides cocoaensis</i> , <i>Globulina gibba</i> var., <i>Cibicides lobatulus</i> at 46-51. <i>Robulus alato-limbatus</i> , <i>Bulimina jacksonensis</i> , <i>Uvigerina jacksonensis</i> , <i>Marginulina cocoaensis</i> , <i>Siphonina jacksonensis</i> , <i>Eponides jacksonensis</i> , <i>Eponides cocoaensis</i> , <i>Cibicides mississippiensis</i> at 51-61.		

	Thickness (feet)	Depth (feet)
<b>Ocala Limestone:</b>		
Limestone: cream, coarsely but sparsely glauconitic, fossiliferous (echinoid and abundant bryozoan remains, and Foraminifera) .....	64	130
<i>Asterocyclina</i> sp., <i>Operculina mariannensis</i> , <i>Camerina striatoreticulata</i> at 91-101.		

**Summary:**

Residuum .....	46	46
Upper Eocene (Cooper Marl).....	20	66
Upper Eocene (Ocala limestone).....	64	130

**Potential Water-Bearing Zones:**

Limestone .....	63	130
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**CRISP COUNTY**

Location: 0.5 mi. north of Cordele, about 0.25 mi. northeast of State Farmers' Market  
 Owner: No. 1 W. D. Taunton  
 Driller: H. B. Truluck  
 Drilled: October 1951

Well No.: GGS 245  
 Elev.: 301

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: medium to coarse-grained, angular, fragments of limestone at depth.....	25	25
Clay: purple, sandy.....	15	40
<b>Oligocene (Undifferentiated):</b>		
Limestone: cherty, fossiliferous, at certain levels.....	25	65
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 40-50.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, fossiliferous (some Foraminifera).....	25	90
<i>Siphonina jacksonensis</i> , <i>Gypsina globula</i> at 70-80.		
<i>Asterocyclina</i> sp. at 80-90.		

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum .....	40	40
Oligocene (undifferentiated) .....	25	65
Upper Eocene (Ocala limestone) .....	25	90

**Potential Water-Bearing Zones:**

Limestone .....	40	90
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**CRISP COUNTY**

Location: 3 mi. southeast of Cordele  
 Owner: No. 1 Thomas Clements  
 Driller: H. B. Truluck  
 Drilled: November 1951

Well No.: GGS 249  
 Elev.: 317

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Sand: fine to medium-grained, angular.....	10	10
Clay: tan to purple (mottled), sandy, fragments of residual limestone at depth.....	100	110
Sand: fine to coarse-grained, angular, and fragments of residual limestone .....	10	120
<b>Oligocene (Undifferentiated):</b>		
Limestone: white, dense, crystalline, sparingly fossiliferous (echinoid and bryozoan remains, and Foraminifera).....	40	160
<i>Argyrotheca</i> sp. at 130-140.		
<i>Lepidocyclina mantelli</i> at 150-160.		
Limestone: yellow, crystalline, highly calcitized, saccharoidal, dense, fossiliferous (macroshells, echinoid and bryozoan remains, and some Foraminifera).....	40	200
<i>Lepidocyclina</i> sp. at 170-180.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, soft, rather porous, fossiliferous (echinoid and bryozoan remains, and Foraminifera).....	20	220
<i>Camerina striatoreticulata</i> , <i>Operculina mariannensis</i> at 200-220.		

	Thickness (feet)	Depth (feet)
Limestone: cream, somewhat calcitized, fossiliferous (abundant bryozoan remains and some Foraminifera).....	10	230
<i>Operculina mariannensis</i> at 220-230.		

## Summary:

Miocene (undifferentiated) .....	120	120
Oligocene (undifferentiated) .....	80	200
Upper Eocene (Ocala limestone).....	30	230

## Potential Water-Bearing Zones:

Sand: fine to coarse-grained.....	10	120
Limestone .....	110	230

## CRISP COUNTY

Location: At Hannah Branch on Lake Blackshear, southwest of Cordele	Well No.: GGS 250
Owner: No. 1 Earle White	Elev.: 237
Driller: H. B. Truluck	
Drilled: November 1951	

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to medium-grained, angular; clay, mottled, sandy, and fragments of residual limestone.....	10	10
Clay: tan to olive-green, limonitic, very sandy, and fragments of residual limestone.....	30	40
Clay: dark-brown to black, lignitic, sandy, limonitic, and fragments of residual limestone.....	10	50

## Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: white to cream, porous, fossiliferous (macroshells, echinoid and abundant bryozoan remains, Ostracods, and Foraminifera) .....	60	110
<i>Eponides jacksonensis</i> , <i>Operculina mariannensis</i> at 50-60.		
<i>Lepidocyclina</i> sp. common at 80-90.		
Limestone: yellow, dense, much calcitized, very sandy.....	20	130

## Middle Eocene: Claiborne Group: Gosport(?) Sand:

Sand: fine to coarse-grained, somewhat indurated, angular.....	35	165
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**Lisbon Formation:**

	Thickness (feet)	Depth (feet)
Limestone: light-gray, rather dense, calcitized, sandy, glauconitic, fossiliferous (macroshells, echinoid and bryozoan remains); interbedded marl, light-gray, glauconitic, fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera); sand, fine to medium-grained, angular, phosphatic, fossiliferous (a coquina at certain levels).....	75	240

*Cibicides westi* at 170-180.

*Cibicides pseudoungerianus* var. *lisbonensis* at 200-210.

**Summary:**

Residuum .....	50	50
Upper Eocene (Ocala limestone).....	80	130
Middle Eocene (Gosport(?) sand).....	35	165
Middle Eocene (Lisbon formation).....	75	240

**Potential Water-Bearing Zones:**

Limestone .....	60	110
Sand: fine to coarse-grained.....	35	165
Sand: fine to coarse-grained.....	20	240

**CRISP COUNTY**

Location: 5 mi. southeast of Cordele  
 Owner: No. 1 W. L. Wells  
 Driller: H. B. Truluck  
 Drilled: November 1951

Well No.: GGS 251  
 Elev.: 361

	Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Clay: yellowish-green to red to purple (mottled), somewhat blocky, sandy, limonitic; interbedded sand, fine to coarse-grained, angular .....	50	50
Limestone: white, rather dense, somewhat saccharoidal, sandy, cherty; interbedded clay, olive-green to tan (somewhat mottled), very sandy.....	120	170

**In Oligocene (Undifferentiated):**

Limestone: white to cream, somewhat recrystallized and sac-

	Thickness (feet)	Depth (feet)
charoidal, more saccharoidal with depth, cherty, fossiliferous (echinoid and bryozoan remains and some Foraminifera)	80	250
<i>Rotalia mexicana</i> var., <i>Reussella byramensis</i> , <i>Nonion</i> sp. at 170-180.		
<i>Coskinolina</i> <sup>1</sup> sp., <i>Rotalia mexicana</i> var. at 180-190.		

#### Summary:

Miocene (undifferentiated) .....	170	170
In Oligocene (undifferentiated).....	80	250

#### Potential Water-Bearing Zones:

Limestone .....	70	250
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#### CRISP COUNTY

Location: In eastern part of Cordele  
 Owner: No. 4 City of Cordele  
 Driller: Layne-Atlantic Company  
 Drilled: October 1954

Well No.: GGS 390  
 Elev.: 316

	Thickness (feet)	Depth <sup>2</sup> (feet)
<b>Residuum:</b>		
Clay: bluish-gray to yellowish-green to brick-red (mottled), sandy, limonitic, and fragments of residual limestone.....	20	20
No samples .....	10	30
Clay: dark-brown, lignitic, sandy, somewhat indurated and residual limestone .....	5	35

#### Oligocene (Undifferentiated):

Limestone: white, nodular, saccharoidal, much calcitized, fossiliferous (some echinoid and bryozoan remains, and Foraminifera) .....	20	55
<i>Pyrgo</i> sp., <i>Quinqueloculina</i> sp. at 35-45.		
Limestone: somewhat yellowish, dense, crystalline, saccharoidal..	26	81
Limestone: as above .....	29	110

<sup>1</sup>Reworked(?) fossil of middle Eocene age.

<sup>2</sup>Depths below 635 feet were picked from electric log.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: as above, but more fossiliferous (bryozoan remains and "larger Foraminifera")..... 10 120

*Lepidocyclina* sp. and *Gypsina globula* common at 110-120.

Limestone: light-gray to white, dense, crystalline, highly calcitized, massive, fossiliferous (casts and molds of megafossils, echinoid and bryozoan remains, and Foraminifera)..... 30 150

*Lepidocyclina* sp. at 120-130.

Limestone: light-gray, cream and sandy at depth, somewhat nodular, porous, calcitized, fossiliferous (echinoid and abundant bryozoan remains, some Ostracods and Foraminifera) ..... 90 240

*Lepidocyclina* sp., *Operculina mariannensis*, *Eponides jacksonensis* at 170-180.

*Camerina striatoreticulata* at 200-210.

**Middle Eocene: Claiborne Group: Gosport(?) Sand:**

Sand: fine to coarse-grained, angular ..... 15 255

**Lisbon Formation:**

Limestone: gray, dense, somewhat crystalline, massive, sandy, glauconitic, fossiliferous (casts and molds of megafossils); indurated sand, fine to coarse-grained, angular, glauconitic, phosphatic ..... 25 280

*Nonion advena*, *Cibicides westi* at 250-260.

*Gyroidina soldanii* var., *Valvulineria jacksonensis* var., *Cibicides americanus* var. *antiquus*, *Cibicides westi* at 270-280.

Marl: gray, somewhat indurated, silty, glauconitic, fossiliferous (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) ..... 30 310

Limestone: gray, dense, sandy, glauconitic, fossiliferous (macroshells, and Foraminifera)..... 26 336

**Tallahatta Formation:**

Sand: fine to coarse-grained, subangular, phosphatic, fossiliferous (common to abundant coquina); interbedded marl,



	Thickness (feet)	Depth (feet)
gray, silty, glauconitic, micaceous, fossiliferous (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	194	530

*Asterigerina lisbonensis* at 390-400.

Macroshells common to abundant at 380-410.

#### Lower Eocene: Wilcox Group (Undifferentiated):

Marl: dark-gray, silty, micaceous, carbonaceous, glauconitic, fossiliferous (macroshells, Ostracods, and Foraminifera).....	50	580
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*Valvulineria scrobiculata*, *Robulus* cf. *R. wilcoxensis*, *Globulina gibba*, *Cibicides blanpiedi*, *Cibicides howelli*, *Anomalina* sp. at 560-570.

Sand: fine to coarse-grained, angular, abundantly glauconitic, green-tinted quartz grains; some marl, as above; limestone, gray, crystalline, coarsely glauconitic, sandy.....	10	590
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Clay: dark-gray, silty, carbonaceous, micaceous, pyritiferous.....	15	605
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Sand: fine to medium-grained, subangular, glauconitic; interbedded clay, as above.....	30	635
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Sand: fine-grained, somewhat indurated, glauconitic.....	13	648
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#### Paleocene: Midway Group: Clayton Formation:

Clay: black, fissile, carbonaceous, micaceous, fossiliferous (Foraminifera) .....	10	658
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*Eponides lotus*, *Discorbis* sp., *Cibicides howelli* at 640-650.

Limestone: gray, crystalline, glauconitic, sandy, fossiliferous (macroshells, bryozoan remains, and some Foraminifera).....	5	663
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*Eponides lotus*, *Cibicides newmanae* at 650-660.

Clay: dark-gray, silty, carbonaceous, micaceous; limestone, as above (probably "cave.").....	17	680
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*Robulus midwayensis* at 660-670.

#### Summary:

Residuum .....	35	35
Oligocene (undifferentiated) .....	75	110
Upper Eocene (Ocala limestone).....	130	240
Middle Eocene (Gosport(?) sand).....	15	255

	Thickness (feet)	Depth (feet)
Middle Eocene (Lisbon formation).....	81	336
Middle Eocene (Tallahatta formation).....	194	530
Lower Eocene (Wilcox group, undifferentiated).....	118	648
Paleocene (Clayton formation).....	32	680

**Potential Water-Bearing Zones:**

Limestone .....	205	240
Sand: fine to coarse-grained.....	15	255
Sand: fine to coarse-grained.....	194	530
Sand: fine to coarse-grained.....	10	590

**DECATUR COUNTY**

Location: 6 mi. northwest of Bainbridge, at U.S. Basic Flying School  
 Well No.: GGS 49  
 Elev.: 135  
 Owner: No. 3 U.S. (War Department) Basic Flying School  
 Driller: Layne-Atlantic Company  
 Drilled: July 1942

	Thickness (feet)	Depth (feet)
No samples .....	190	190

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream to light-brown at depth, much calcitized, somewhat saccharoidal, fossiliferous (macroshells, echinoid and bryozoan remains and Foraminifera)..... 105 295

*Operculinoides* sp., *Amphistegina pinarensis* var. at 190.

*Gypsina globula*, *Operculina mariannensis*, *Lepidocyclina* sp. at 222.

*Amphistegina pinarensis* var. common, *Lepidocyclina* sp. at 285.

*Lepidocyclina* sp. common at 287.

No samples .....

	18	313
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**In Middle Eocene: Claiborne Group: Lisbon Formation:**

Dolomitic limestone: light-gray, saccharoidal and crystalline..... 14 327

Limestone: light-gray to white, very dense, much calcitized, coarsely glauconitic, fossiliferous (macroshells, bryozoan remains, and Foraminifera)..... 12 339

Limestone: light-gray, granular, glauconitic with finely disseminated grains, very sandy, fossiliferous (some macroshells, and bryozoan remains)..... 51 390

	Thickness (feet)	Depth (feet)
Indurated sand: light-gray to pale-yellowish-green, fine to medium-grained, somewhat argillaceous, glauconitic (finely disseminated grains), fossiliferous (macroshells).....	17	407
Marl: pale-yellowish-green, sandy, glauconitic, somewhat indurated, fossiliferous (Ostracods and Foraminifera).....	10	417
<i>Cibicides westi</i> at 407.		

**Summary:**

No samples .....	190	190
In upper Eocene (Ocala limestone).....	105	295
No samples .....	18	313
In middle Eocene (Lisbon formation).....	104	417

**Potential Water-Bearing Zones:**

Limestone .....	105	295
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**DECATUR COUNTY**

Location: 6 mi. northwest of Bainbridge, at U.S. Basic Flying Field  
 Well No.: GGS 57  
 Elev.: 135  
 Owner: No. 1 (Test Hole) Basic Flying Field  
 Driller: Layne-Atlantic Company

	Thickness (feet)	Depth (feet)
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**Residuum:**

Clay: bluish-gray to pink to purple (mottled), sandy, limonitic.....	20	20
Sand: fine to coarse-grained, subangular; some limestone, white, much calcitized and crystalline.....	35	55
No samples .....	60	115

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white to cream to light-brown (latter at depth), much calcitized and crystalline, fossiliferous at certain levels (bryozoan remains and Foraminifera).....	155	270
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*Gypsina globula* at 115.

*Amphistegina pinarensis* var. at 169.

*Lepidocyclus* sp. common at 195.

No samples .....	20	290
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	Thickness (feet)	Depth (feet)
<b>In Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: white to light-gray, somewhat nodular, dense, massive, coarsely glauconitic, fossiliferous (macroshells and bryozoan remains) .....	16	306
Dolomitic limestone: light-gray, saccharoidal, glauconitic.....	21	327
Limestone: light-gray to white, massive, coarsely glauconitic, sandy, fossiliferous (bryozoan remains and some Foraminifera) .....	26	353
Limestone: gray, dense, crystalline, cherty, glauconitic (finely disseminated grains) .....	47	400
Marl: pale-yellowish-green, somewhat indurated and tough, softer at depth, somewhat granular, glauconitic (finely disseminated grains), micaceous, fossiliferous (some Foraminifera at certain levels).....	30	430
<i>Cibicides westi</i> at 400.		
Limestone: cream, calcitized and granular, loosely consolidated, fossiliferous (a coquina and some Foraminifera).....	5	435
Limestone: yellowish-green, argillaceous, dense, sandy, coarsely glauconitic, fossiliferous (fragments, casts and molds of megafossils); interbedded marl, yellowish-green, silty, fossiliferous (Foraminifera at certain levels).....	33	468
<i>Asterigerina lisbonensis</i> at 458.		
Sand: somewhat indurated at certain levels, fine to coarse-grained, subangular, coarsely glauconitic, fossiliferous (macroshells, bryozoan remains, Ostracods, and Foraminifera at certain levels).....	18	486
<i>Eponides mexicanus</i> , <i>Gyroidina soldanii</i> var., <i>Alabamina atlantisae</i> , <i>Discorbis yeguaensis</i> , <i>Cibicides americanus</i> var., <i>Cibicides danvillensis</i> , <i>Cibicides pseudoungerianus</i> var., <i>Cibicides lobatulus</i> , <i>Asterigerina lisbonensis</i> at 476.		
Limestone: gray to cream, rather massive, sandy, coarsely glauconitic, fossiliferous (a coquina).....	9	495
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, subangular; interbedded clay, dark-green to mottled, sandy, micaceous.....	540	1,035
Glauconite very abundant at 495.		

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum .....	55	55
No samples .....	60	115
In upper Eocene (Ocala limestone).....	155	270
No samples .....	20	290
In middle Eocene (Lisbon formation).....	205	495
In middle Eocene (Tallahatta formation).....	540	1,035

**Potential Water-Bearing Zones:**

Limestone .....	155	270
Sand: fine to coarse-grained.....	540	1,035

**Remarks:**

It is thought that by careful drilling plus the aid of an electric log, adequate water-bearing sands can be found within the Tallahatta formation (see log above).

**DECATUR COUNTY**

Location: Center of northeast quarter of Land Lot 260, 21st Land District  
 Well No.: GGS 168  
 Elev.: 104  
 Owner: No. 1 Metcalf (derrick floor)  
 Driller: Hunt Oil Company  
 Drilled: August 1944

	Thickness (feet)	Depth (feet)
No samples .....	138	138

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Dolomitic limestone: light-brown, saccharoidal, fossiliferous (some Foraminifera) .....	207	345
<i>Operculinoides</i> sp., <i>Gypsina globula</i> , <i>Amphistegina pinaren-sis</i> var. at 265-275.		

**In Middle Eocene: Claiborne Group: Lisbon Formation:**

Limestone: cream to light-brown, rather massive and crystalline, somewhat nodular, fossiliferous (bryozoan and molluscan remains and some Foraminifera).....	10	355
Limestone: cream, calcitized and granular, somewhat loosely consolidated, coarsely but sparsely glauconitic, fossiliferous at certain levels (macroshells, echinoid and bryozoan re-		

	Thickness (feet)	Depth (feet)
mains, and Foraminifera); interbedded dolomitic limestone, gray to brown, saccharoidal, glauconitic; indurated sand, fine to medium-grained, subangular.....	455	810
<b>Tallahatta Formation:</b>		
Indurated sand: fine to medium-grained, subangular, abundantly glauconitic at depth; interbedded clay, brown, somewhat fissile .....	310	1,120
Sand: coarse-grained, subangular.....	80	1,200
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray, silty, micaceous, fossiliferous at depth (some Foraminifera); interbedded sand, light-gray, fine-grained, subangular, glauconitic (finely disseminated grains), micaceous .....	320	1,520
<i>Robulus</i> sp., <i>Alabama</i> sp., <i>Globigerina</i> sp. at 1290-1300. <i>Marginulina</i> sp. at 1330-1340.		
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: somewhat yellow, dense, crystalline, coarsely glauconitic, fossiliferous (some "larger Foraminifera").....	25	1,545
<i>Pseudophragmina stephensoni</i> at 1540-1550.		
Indurated sand: fine-grained, glauconitic (finely disseminated); interbedded limestone, gray, crystalline, sandy, fossiliferous (Foraminifera at certain levels).....	195	1,740
<i>Robulus pseudo-mamilligerus</i> at 1600-1610.		
Marl: gray, somewhat indurated, silty, micaceous, glauconitic, fossiliferous (Foraminifera <sup>1</sup> ) .....	295	2,035
<b>Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Marl: gray, chalky, micaceous, glauconitic, sandy at certain levels, fossiliferous (fossils at certain horizons).....	770	2,805
<i>Globotruncana cretacea</i> at 2050-2060. <i>Planulina taylorensis</i> at 2210-2220. <i>Kyphopyxa christneri</i> at 2620-2630. <i>Vaginulina texana</i> at 2650-2660.		

<sup>1</sup>Tamesi fauna.

	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained, somewhat indurated, glauconitic (finely disseminated), phosphatic, fossiliferous (a coquina) .....	115	2,920
<b>Tuscaloosa Formation:</b>		
Sand: medium-grained, angular, somewhat indurated, glauconitic, fossiliferous (macroshells); interbedded shale, gray, fissile, carbonaceous, micaceous .....	295	3,215
Shale: dark-gray, fissile, carbonaceous, micaceous .....	265	3,480
Sand: medium-grained, angular, glauconitic, fossiliferous (macroshells); interbedded shale, as above .....	90	3,570
Sand: coarse-grained, angular, arkosic; interbedded clay, red, micaceous, sandy .....	40	3,610 <sup>1</sup>

**Summary:**

No samples .....	138	138
In upper Eocene (Ocala limestone) .....	207	345
In middle Eocene (Lisbon formation) .....	465	810
Middle Eocene (Tallahatta formation) .....	390	1,200
Lower Eocene (Wilcox group, undifferentiated) .....	320	1,520
Paleocene (Clayton formation) .....	515	2,035
Upper Cretaceous (post-Tuscaloosa, undifferentiated) .....	885	2,920
Upper Cretaceous (Tuscaloosa formation) .....	690	3,610

**Potential Water-Bearing Zones:**

Limestone .....	200	545
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**Remarks:**

This is a difficult area in which to find suitable aquifers. In general, most aquifers available below a depth of 545 contained mineralized ground water.

<sup>1</sup>Not examined below 3,610.

## DECATUR COUNTY

Location: In Bainbridge  
 Owner: City of Bainbridge  
 Driller: Layne-Atlantic Company  
 Drilled: May 1951

Well No.: GGS 228  
 Elev.: 135<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: bluish-gray to tan to purple to red (mottled), very sandy, limonitic, residual limestone at depth.....	75	75
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: brown with some cream, dense, crystalline, much calcitized, somewhat dolomitized, fossiliferous (echinoid and bryozoan remains and Foraminifera).....	75	150
<i>Operculinoides</i> sp. at 75-79.		
<i>Operculina</i> cf. <i>O. mariannensis</i> , <i>Asterocyclina</i> sp., <i>Gypsina globula</i> at 79-97.		
Limestone: cream, considerably calcitized, rather massive, fossiliferous (Foraminifera); interbedded dolomitic limestone, light-brown, saccharoidal .....	70	220
<i>Amphistegina pinarensis</i> var. at 185-190.		
Limestone: as above, but somewhat more porous.....	130	350
<b>In Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: light-gray, massive, nodular, pyritiferous, fossiliferous (bryozoan remains and some Foraminifera).....	55	405
<i>Lepidocyclina</i> sp. at 350-355.		
<i>Asterocyclina</i> sp. at 385-390.		
Limestone: light-gray, much calcitized, saccharoidal, coarsely but sparsely glauconitic, fossiliferous (some Foraminifera)....	10	415
Limestone: cream, much calcitized, granular, porous, coarsely glauconitic, fossiliferous (echinoid and bryozoan remains, and Foraminifera) .....	30	445
<i>Asterocyclina</i> sp. at 415-420.		

<sup>1</sup>Average elevation taken from State Highway map.



	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum .....	75	75
Upper Eocene (Ocala limestone) .....	275	350
In middle Eocene (Lisbon formation) .....	95	445

**Potential Water-Bearing Zones:**

Limestone .....	225	445
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**DODGE COUNTY**

Location: Near Eastman	Well No.: GGS 222
Owner: Edwards-Howard Drug Company	Elev.: 355
	Thickness (feet)
	Depth (feet)

No samples .....	159	159
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**Oligocene (Undifferentiated):**

Limestone: light-gray, dense, highly calcitized and crystalline, cherty; limestone, white to cream, soft, somewhat nodular, fossiliferous (bryozoan remains) .....	91	250
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Limestone: white to cream, nodular, somewhat calcitized and crystalline, fossiliferous (bryozoan remains and some Foraminifera) .....	120	370
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*Lepidocyclina* sp. common, *Rotalia mexicana* var. at 250-260.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: as above, abundant Foraminifera .....	75	445
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**Summary:**

No samples .....	159	159
Oligocene (undifferentiated) .....	211	370
In upper Eocene (Ocala limestone) .....	75	445

**Potential Water-Bearing Zones:**

Limestone .....	195	445
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## DODGE COUNTY

Location: 5 mi. south of Dubois, 4.5 mi. northwest of Eastman, 0.93 mi. west of Dodge Hollow School at dwelling  
 Owner: No. 1 Lyman Jones  
 Driller: H. B. Truluck  
 Drilled: August 1951

Well No.: GGS 233  
 Elev.: 347

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic.....	40	40
Sand: fine to coarse-grained, angular.....	30	70
Clay: brown, sandy, with fragments of residual limestone.....	10	80

**Oligocene (Undifferentiated):**

Limestone: white, dense, crystalline, saccharoidal, cherty, fossiliferous (some bryozoan remains, and Foraminifera).....	60	140
<i>Rotalia mexicana</i> var., <i>Gypsina globula</i> <sup>1</sup> at 100-110.		

**Summary:**

Miocene (undifferentiated) .....	80	80
Oligocene (undifferentiated) .....	60	140

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	20	70
Limestone .....	60	140

## DODGE COUNTY

Location: 2 mi. east of Dubois, north side of county road, 0.1 mi. east of road junction  
 Owner: No. 1 Sheldon Steel  
 Driller: H. B. Truluck

Well No.: GGS 240  
 Elev.: 357

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: gray to red (mottled), sandy, limonitic.....	40	40
Sand: medium-grained, angular.....	20	60
Clay: white to gray, sandy.....	30	90
Clay: as above, with fragments of residual limestone.....	10	100

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

**Oligocene (Undifferentiated):**

Limestone: white, dense, much calcitized, cherty, fossiliferous (bryozoan remains and some Foraminifera).....	50	150
<i>Rotalia mexicana</i> var., <i>Asterigerina</i> sp., <i>Siphonina advena</i> at 110-120.		
<i>Gypsina globula</i> <sup>1</sup> at 120-130.		
<i>Lepidocyclina</i> sp. at 140-150.		

**Summary:**

Miocene (undifferentiated) .....	100	100
Oligocene (undifferentiated) .....	50	150

**Potential Water-Bearing Zones:**

Limestone .....	50	150
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**DODGE COUNTY**

Location: Top of hill, 0.25 mi. east of Southern R.R. crossing near Empire  
 Well No.: GGS 267  
 Elev.: 401  
 Owner: No. 1 H. A. Pierce  
 Driller: H. B. Truluck  
 Drilled: February 1952

	Thickness (feet)	Depth (feet)
No samples .....	10	10

**In Miocene (Undifferentiated):**

Clay: gray to purple (mottled), sandy, limonitic.....	10	20
Sand: fine to coarse-grained, angular.....	10	30
Clay: light-gray, sandy.....	10	40
Sand: coarse-grained, arkosic.....	20	60
Clay: gray, sandy.....	20	80
Sand: coarse-grained, arkosic.....	20	100
Clay: yellowish-green to red (mottled); interbedded sand, fine to coarse grained, angular.....	70	170

**Summary:**

No samples .....	10	10
In Miocene (undifferentiated).....	160	170

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	20	60
Sand: fine to coarse-grained.....	20	100
Sand: fine to coarse-grained.....	10	130
Sand: fine to coarse-grained.....	10	170

**DODGE COUNTY**

Location: 6 mi. northwest of Eastman  
 Owner: No. 1 M. L. Sapp  
 Driller: H. B. Truluck  
 Drilled: February 1952

Well No.: GGS 269  
 Elev.: 308

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: gray to red (mottled), sandy, limonitic.....	50	50
Sand: fine to coarse-grained, cherty.....	30	80
No samples .....	10	90
<b>In Oligocene (Undifferentiated):</b>		
Limestone: white, dense, cherty, fossiliferous (bryozoan remains and some Foraminifera).....	50	140
<i>Asterigerina subacuta</i> at 110-120.		
<i>Rotalia mexicana</i> var. at 120-130.		

**Summary:**

Miocene (undifferentiated) .....	80	80
No samples .....	10	90
In Oligocene (undifferentiated).....	50	140

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	30	80
Limestone .....	50	140

## DODGE COUNTY

Location: Approximately 4 mi. west of Eastman, south side U.S. Highway 341, near log cabin

Well No.: GGS 273

Elev.: 380

Owner: No. 1 Eugene Smith

Driller: H. B. Truluck

Drilled: February 1952

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: bluish-gray to red to brown to purple (mottled), sandy, limonitic .....	60	60
Sand: medium-grained, angular, arkosic .....	20	80
Clay: as above, with fragments of residual limestone .....	30	110

**Oligocene (Undifferentiated):**

Limestone: yellow, much leached and iron-stained, cherty .....	30	140
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**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, soft and porous, fossiliferous (macroshells, echinoid and abundant bryozoan remains, and Foraminifera) ..	20	160
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*Gypsina globula*, *Asterocyclina* sp., *Lepidocyclina* sp., *Eponides jacksonensis*, *Reussella eocena* at 140-150.

No samples .....	20	180
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Limestone: white, crystalline, highly calcitized, fossiliferous (echinoid and bryozoan remains and some Foraminifera) .....	10	190
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**Summary:**

Miocene (undifferentiated) .....	110	110
Oligocene (undifferentiated) .....	30	140
Upper Eocene (Ocala limestone) .....	50	190

**Potential Water-Bearing Zones:**

Limestone .....	50	190
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## DOOLY COUNTY

Location: Northeastern part of city, few ft. west of elevated water (steel) reservoir, top of prominent hill, in Vienna  
 Well No.: GGS 143  
 Elev.: 397  
 Owner: No. 2 City of Vienna  
 Driller: Layne-Atlantic Company  
 Drilled: March 1947

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: yellowish-green to brick-red (mottled), sandy, limonitic....	61	61
Clay: tan to dark-brown to purple (mottled), sandy, and fragments of residual limestone .....	19	80
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, somewhat crystalline and saccharoidal, coarsely but sparsely glauconitic, fossiliferous (macroshells, echinoid and bryozoan remains, and some Foraminifera).....	37	117
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Marl: dark-green, somewhat indurated, silty, glauconitic, fossiliferous (echinoid and bryozoan remains and some Foraminifera) .....	21	138
<i>Textularia adalta, Nonion inexcavatus, Nonion advena, Valvulineria jacksonensis, Cibicides mississippiensis, Cibicides americanus</i> var., <i>Cibicides lobatulus</i> at 117-138.		
Limestone: cream, coarsely but sparsely glauconitic, sandier with increased depth, fossiliferous (macroshells abundant bryozoan remains, and some Foraminifera) .....	46	184
Bryozoan remains abundant at 138-158.		
Marl: dark-green to light-gray, silty, glauconitic (finely disseminated grains), fossiliferous (echinoid and bryozoan remains and Foraminifera); interbedded limestone, white, rather massive and dense, very sandy, coarsely glauconitic, fossiliferous (casts and molds of megafossils).....	61	245
<i>Cibicides westi</i> at 184-189.		
<i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> at 230-245.		

	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, subangular, phosphatic, fossiliferous (common to abundant macroshells at certain levels).....	173	418
Buhrstone: gray to dark-brown, dense, cherty .....	17	435
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray, silty, carbonaceous, micaceous, pyritiferous, fossiliferous (Foraminifera); limestone, gray, very dense, crystalline, sandy, glauconitic .....	70	505
<i>Eponides dorfi, Cibicides howelli, Anomalina</i> sp. at 435-505.		
<b>In Paleocene: Midway Group: Clayton Formation:</b>		
Clay: light-gray to white, blocky, micaceous; limestone, light-gray, dense, crystalline, sandy, coarsely glauconitic, fossiliferous (fragments and casts of megafossils and some bryozoan remains); clay, black, fissile, carbonaceous, micaceous .....	40	545
<b>Upper Cretaceous: Providence Sand:</b>		
Sand: fine to coarse-grained, subangular; inclusions of kaolin, light-gray, blocky, greasy appearance, micaceous .....	120	665
Marl: dark, bluish-gray, micaceous, pyritiferous, sandy, fossiliferous (some Foraminifera) .....	138	803
<i>Anomalina</i> sp. at 665-677.		
<i>Anomalina pseudopapillosa</i> at 677-712.		

**Summary:**

Residuum .....	80	80
Upper Eocene (Ocala limestone) .....	37	117
Middle Eocene (Lisbon formation) .....	128	245
Middle Eocene (Tallahatta formation).....	190	435
Lower Eocene (Wilcox group, undifferentiated) .....	70	505
In Paleocene (Clayton formation) .....	40	545
Upper Cretaceous (Providence sand) .....	258	803

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	173	418
Sand: fine to coarse-grained .....	120	665

## DOOLY COUNTY

Location: Approximately 3.4 mi. west of Pinehurst and 1.25 mi. northeast of Forest Chapel  
 Well No.: GGS 241  
 Elev.: 399  
 Owner: No. 1 Dan Thompson  
 Driller: H. B. Truluck  
 Drilled: September 1951

Thickness  
(feet)      Depth  
(feet)

**Residuum:**

Clay: olive-green to red (mottled) to tan to dark-brown to purple at depth, cherty, sandy, limonitic, and fragments of residual limestone ..... 70      70

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, much calcitized, coarsely glauconitic at certain levels, fossiliferous (macroshells, Ostracods, and Foraminifera) ..... 30      100

Sand: fine to coarse-grained, angular ..... 30      130

**Summary:**

Residuum ..... 70      70  
 Upper Eocene (Ocala limestone) ..... 60      130

**Potential Water-Bearing Zones:**

Limestone ..... 30      100  
 Sand: fine to coarse-grained ..... 30      130

**Remarks:**

Additional aquifers occur at depths below 130.

## DOOLY COUNTY

Location: 75 ft. east of Highway 41, 30 ft. south of dwelling in Richwood  
 Well No.: GGS 246  
 Elev.: 323  
 Owner: No. 1 J. M. Diffie  
 Driller: H. B. Truluck  
 Drilled: October 1951

Thickness  
(feet)      Depth  
(feet)

**Residuum:**

Clay: bluish-gray to brick-red, very sandy, limonitic ..... 40      40

Clay: as above, with fragments of residual limestone ..... 20      60



	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, much calcitized, rather massive, fossiliferous (fragments, casts and molds of megafossils, echinoid and bryozoan remains, and some Foraminifera) .....	40	100
<i>Lepidocyclina</i> sp. at 90-100.		

## Summary:

Residuum .....	60	60
Upper Eocene (Ocala limestone) .....	40	100

## Potential Water-Bearing Zones:

Limestone .....	40	100
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## Remarks:

Additional aquifers occur below depth 100.

## DOOLY COUNTY

Location: 1.5 mi. west of Unadilla  
 Owner: No. 1 G. A. Lewis  
 Driller: H. B. Truluck

Well No.: GGS 257  
 Elev.: 447

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: bluish-gray to brick-red to purple, sandy, limonitic, and fragments of residual limestone .....	30	30
<b>Oligocene (Undifferentiated):</b>		
Limestone: white to cream, iron-stained, leached, cherty, fossiliferous (some Foraminifera) .....	20	50
<i>Rotalia mexicana</i> var. at 30-40.		
<i>Quinqueloculina</i> sp. at 40-50.		
Sand: fine to coarse-grained, angular; chert, dark-brown, fossiliferous; residual limestone .....	10	60
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, much calcitized, somewhat saccharoidal, coarsely but sparsely glauconitic, fossiliferous (fragments of macroshells, echinoid and bryozoan remains, and some Ostracods and Foraminifera) .....	10	70

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum .....	30	30
Oligocene (undifferentiated) .....	30	60
Upper Eocene (Ocala limestone) .....	10	70

**Potential Water-Bearing Zones:**

Limestone and sand .....	40	70
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**Remarks:**

Additional aquifers occur below depth 70.

**DOOLY COUNTY**

Location: 10 mi. east of Vienna and 1.25 mi. north of Highway 27  
 Owner: No. 1 Carl Lupo  
 Driller: H. B. Truluck  
 Drilled: January 1952

Well No.: GGS 258  
 Elev.: 360

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: bluish-gray to brick-red to purple, very sandy, limonitic.....	30	30
<b>Oligocene (Undifferentiated):</b>		
Limestone: yellow, much iron-stained, somewhat nodular, dense, crystalline, highly calcitized, rather massive, cherty, fossiliferous (some bryozoan remains and Foraminifera).....	40	70
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 40-50.		
Limestone: white, dense, crystalline, saccharoidal, fossiliferous (macroshells, echinoid and bryozoan remains, and some Foraminifera) .....	20	90
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray, rather porous, considerably calcitized, coarsely glauconitic at depth, fossiliferous (echinoid and abundant bryozoan remains and Foraminifera).....	110	200

*Lepidocyclina* sp., *Gypsina globula* at 90-100.

*Robulus alato-limbatus*, *Siphonina jacksonensis*, *Eponides jacksonensis*, *Uvigerina jacksonensis*, *Cibicides lobatulus* at 110-120.

*Operculinoides* sp. at 170-180.

*Asterocyclina* sp. at 180-190.

	Thickness (feet)	Depth (feet)
Indurated sand: fine to coarse-grained, angular .....	10	210

**Summary:**

Residuum .....	30	30
Oligocene (undifferentiated) .....	60	90
Upper Eocene (Ocala limestone) .....	120	210

**Potential Water-Bearing Zones:**

Limestone .....	110	200
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**DOOLY COUNTY**

Location: 1.25 miles west of Sugar Hill School, south side of Unadilla Road      Well No.: GGS 306  
 Elev.: 357

Owner: No. 1 D. J. Folds

Driller: H. B. Truluck

Drilled: May 1952

	Thickness (feet)	Depth (feet)
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**Residuum:**

Clay: bluish-gray to brick-red to tan to purple (mottled), sandy, limonitic .....	50	50
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**Oligocene (Undifferentiated):**

Limestone: white, nodular, cherty, fossiliferous (echinoid and bryozoan remains and some Foraminifera) .....	30	80
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*Quinqueloculina* sp. at 50-60.

*Rotalia mexicana* var. at 60-70.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, nodular, much calcitized, somewhat crystalline, fossiliferous (macroshells, abundant echinoid and bryozoan remains, and some Foraminifera) .....	20	100
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*Eponides jacksonensis* common at 80-90.

Limestone: light-gray, dense, massive, coarsely but sparsely glauconitic, sandy, fossiliferous (casts and molds of megafossils, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	10	110
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Marl: gray, sandy, glauconitic, fossiliferous (abundant echinoid and bryozoan remains and some Foraminifera) .....	20	130
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	Thickness (feet)	Depth (feet)
Limestone: white, dense, crystalline, highly calcitized fossiliferous (macroshells, abundant echinoid and bryozoan remains, Ostracods and Foraminifera) .....	20	150

*Operculinoides* sp. at 140-150.

Limestone: cream, rather soft and porous but very dense and calcitized at depth, coarsely but sparsely glauconitic, fossiliferous (macroshells, abundant echinoid and bryozoan remains, Ostracods, and abundant "larger Foraminifera") .....	20	170
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*Asterocyclina* sp., *Lepidocyclina ocalana* at 150-160.

*Operculina mariannensis*, *Camerina striatoreticulata* at 160-170.

Sand: fine to coarse-grained, angular .....	10	180
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#### Summary:

Residuum .....	50	50
Oligocene (undifferentiated) .....	30	80
Upper Eocene (Ocala limestone) .....	100	180

#### Potential Water-Bearing Zones:

Limestone .....	90	170
Sand: fine to coarse-grained .....	10	180

#### DOOLY COUNTY

Location: 9 mi. ESE of Vienna, 811 ft. north and 1,003 ft. east of Land Lot 163, 6th Land District  
 Owner: No. 1 H. E. Walton  
 Driller: Georgia-Florida Drilling Company  
 Drilled: April 1960

Well No.: GGS 619  
 Elev.: 442

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: pale-greenish to brownish-gray with tan to red streaks (somewhat mottled), blocky, sandy; interbedded limestone at depth, cream, dense, sandy, somewhat cherty .....	110	110
No samples .....	530	640

	Thickness (feet)	Depth (feet)
<b>In Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Sand: medium to coarse-grained, subangular, phosphatic at depth; some clay (or kaolin?), light-gray, sandy, micaceous.....	60	700
Sand: as above; much clay, dark-gray, silty, abundantly glauconitic, micaceous, pyritiferous .....	24	724
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: dark-gray, laminated, silty, micaceous, carbonaceous; interbedded limestone, light-gray, sandy, pyritiferous, glauconitic, fossiliferous (macroshells and bryozoan remains).....	30	754
Limestone: light-gray, dense, sandy, glauconitic, pyritiferous, fossiliferous (some macroshells) .....	56	810
Limestone: as above but sandier with depth .....	17	827
<b>Upper Cretaceous: Post-Eutaw (Undifferentiated):</b>		
Sand: coarse-grained, subangular .....	81	908
Sand: fine to coarse-grained, subangular; interbedded marl, dark-bluish-gray, somewhat chalky, micaceous, pyritiferous, fossiliferous at certain levels (some macroshells, Ostracods and Foraminifera).....	297	1,205
<i>Anomalina pseudopapillosa</i> at 900-910.		
<i>Gaudryina rudita</i> , <i>Robulus munsteri</i> , <i>Loxostoma plaitum</i> , <i>Cibicides harperi</i> , <i>Anomalina clementiana</i> at 1135-1145.		
Clay: dark-brownish-gray, laminated, silty, micaceous, lignitic, fossiliferous at certain levels (some macroshells, Ostracods and Foraminifera); interbedded sand, fine to coarse-grained, subangular, phosphatic .....	670	1,875
<i>Planulina taylorensis</i> at 1215-1225.		
<i>Kyphopyxa christneri</i> at 1775-1785.		
Sand: medium to coarse-grained, subangular; interbedded clay, as above .....	128	2,003
Clay: dark-brown, laminated, silty, micaceous, glauconitic, fossiliferous at certain levels (some macroshells, Ostracods and Foraminifera); interbedded sand, fine to medium-grained, subangular, phosphatic.....	135	2,138
<i>Vaginulina texana</i> at 2025-2035.		

	Thickness (feet)	Depth (feet)
<b>Eutaw Formation (Restricted):</b>		
Sand: fine-grained, somewhat indurated at certain levels, micaceous, phosphatic, glauconitic, fossiliferous (macroshells and some fish teeth) .....	72	2,210
<b>In Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, coarser-grained with depth, subangular, micaceous, arkosic; interbedded clay, red to purple, sandy, micaceous .....	742	2,952
<b>Lower Cretaceous(?) (Undifferentiated):</b>		
Sand: coarse-grained, subangular to subrounded, vari-colored, arkosic, micaceous; interbedded clay, pale-bluish-green to tan to red to purple (mottled), blocky, greasy-appearing, somewhat sandy, abundantly micaceous .....	560	3,512
<b>Basement Complex (Undifferentiated):</b>		
Crystalline Rock: dark-gray to red at depth, abundantly micaceous, grains of pale-green epidote and other metamorphic minerals .....	236	3,748

#### Summary:

Miocene (undifferentiated) .....	110	110
No samples .....	530	640
In lower Eocene (Wilcox group, undifferentiated) .....	84	724
Paleocene (Clayton formation) .....	103	827
Upper Cretaceous (post-Eutaw, undifferentiated) .....	1,311	2,138
Upper Cretaceous (Eutaw formation, restricted) .....	72	2,210
Upper Cretaceous (Tuscaloosa formation) .....	742	2,952
Lower Cretaceous(?) (undifferentiated) .....	560	3,512
Basement complex (undifferentiated) .....	236	3,748

#### Potential Water-Bearing Zones:

Limestone .....	56	810
Sand: fine to coarse-grained .....	78	905
Sand: fine to coarse-grained .....	30	1,125
Sand: fine to coarse-grained .....	40	1,380
Sand: fine to coarse-grained .....	128	2,003
Sand: fine to coarse-grained .....	387	2,952 <sup>1</sup>

<sup>1</sup>There is a possibility that these sands may contain salt water, hence be unsuitable for human consumption.

## DOUGHERTY COUNTY

Location: 7 mi. southwest of Albany, 3.5 mi. north of Well No.: GGS 11  
 Lockette, Land Lot 116, 2nd Land District Elev.: 197  
 Owner: No. 1 Reynolds Bros. Lumber Company  
 Driller: J. K. Sealy et al  
 Drilled: 1942

	Thickness (feet)	Depth (feet)
No samples .....	280	280
<b>In Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Sand: fine to medium-grained, angular, phosphatic .....	129	409
No samples .....	23	432
Sand: as above; marl, gray, silty, micaceous, glauconitic, fossiliferous (some Foraminifera) .....	33	465
<i>Valvulineria jacksonensis</i> var., <i>Alabama</i> sp. at 432-465.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Sand: as above; marl, gray to darker-gray at depth, micaceous, carbonaceous, fossiliferous at certain levels (Foraminifera) .....	29	494
<i>Globorotalia wilcoxensis</i> at 465-494.		
Sand: fine-grained, angular, abundantly glauconitic .....	30	524
Clay: light-gray, somewhat fissile; sand, as above .....	34	558
No samples .....	17	575
<b>In Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: white, crystalline, coarsely glauconitic, sandy; indurated sand at depth, fine-grained, dense, glauconitic (finely disseminated) .....	15	590
Indurated sand: fine-grained, rather dense, glauconitic; interbedded marl, dark-gray to black, fissile, carbonaceous, micaceous .....	25	615
<i>Operculinoides catenula</i> common, <i>Robulus midwayensis</i> , <i>Robulus degolyeri</i> at 585-623.		
Limestone: light-gray, dense, crystalline, sandy to very sandy in its lower part, glauconitic, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	135	750
Sand: fine to coarse-grained, angular .....	20	770

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Providence and Ripley Formations (Undifferentiated):</b>		
Marl: gray, somewhat chalky, micaceous, glauconitic, pyritiferous, fossiliferous (megafossils, Ostracods, and Foraminifera) .....	20	790
<i>Gaudryina rudita, Anomalina pseudopapillosa</i> at 770-790.		
Indurated sand: fine to coarse-grained, angular, fossiliferous (a coquina) .....	25	815
Sand: fine to coarse-grained, angular; interbedded marl, as above .....	255	1,070
<i>Cibicides harperi, Textularia ripleyensis</i> at 925-955.		
<i>Globotruncana cretacea, Dorothis</i> sp. at 955-985.		
Marl: as above .....	30	1,100
<b>Cusseta and Blufftown Formations (Undifferentiated):</b>		
Marl: bluish-gray to brown, somewhat fissile at depth, silty, micaceous, glauconitic, carbonaceous, pyritiferous, abundantly fossiliferous at certain levels (megafossils, Ostracods and Foraminifera); interbedded sand, fine to coarse-grained, angular, glauconitic, somewhat phosphatic, fossiliferous (macroshells) .....	1,170	2,270
<i>Planulina taylorensis</i> at 1105-1135.		
<i>Kyphopyxa christneri, Vaginulina texana</i> at 1585-1615.		
Sand: fine to medium-grained, somewhat indurated, glauconitic, micaceous, fossiliferous (macroshells) .....	95	2,365
<b>Eutaw Formation (Restricted):</b>		
Sand: fine to coarse-grained, angular, somewhat indurated, micaceous, phosphatic, glauconitic, fossiliferous (a coquina) ..	140	2,505
<b>Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, arkosic, scattered grains of "rose quartz"; interbedded clay, yellowish-green, somewhat iron-stained, micaceous, sandy .....	315	2,820
Clay or shale: dark-gray to black, carbonaceous (finely disseminated), fossiliferous at certain levels (casts of megafossils); interbedded sand, fine to coarse-grained, angular, glauconitic .....	100	2,920



	Thickness (feet)	Depth (feet)
Sand: medium-grained, glauconitic, micaceous .....	15	2,935
Sand: coarse-grained, angular, massive, arkosic; interbedded clay, brick-red to dark-green (mottled), highly micaceous, sandy .....	365	3,300 <sup>1</sup>

**Summary:**

No samples .....	280	280
In middle Eocene (Tallahatta formation) .....	185	465
Lower Eocene (Wilcox group, undifferentiated) .....	93	558
No samples .....	17	575
In Paleocene (Clayton formation) .....	195	770
Upper Cretaceous (Providence and Ripley formations) .....	330	1,100
Upper Cretaceous (Cusseta and Blufftown formations) .....	1,265	2,365
Upper Cretaceous (Eutaw formation) .....	140	2,505
Upper Cretaceous (Tuscaloosa formation) .....	795	3,300

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	85	385
Limestone: .....	135	750
Sand: fine to coarse-grained .....	20	770

**DOUGHERTY COUNTY**

Location: 3.5 mi. west of Dougherty-Worth County line and 0.5 mi. south of Atlantic Coast Line R.R.      Well No.: GGS 248  
 Elev.: 223  
 Owner: No. 1 U. S. Marine Corps  
 Driller: Layne-Atlantic Company  
 Drilled: 1951

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to medium-grained, limonitic; clay, mottled, sandy....	20	20
Clay: gray to brown (mottled), sandy, limonitic, and frag- ments of residual limestone .....	20	40
No samples .....	12	52

<sup>1</sup>Not reported below 3,300.

	Thickness (feet)	Depth (feet)
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white to cream, dense (much calcitized), sandier and glauconitic at depth, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	256	308
<i>Operculinoides</i> sp. at 70-90.		
<i>Argyrotheca</i> sp. at 90-110.		
<i>Gypsina globula</i> at 185-210.		
<i>Amphistegina pinarensis</i> var. at 270-290.		

**Middle Eocene: Claiborne Group: Lisbon Formation:**

Sand: fine to coarse-grained, sparsely phosphatic, fossiliferous (macroshells at certain levels); interbedded marl, light-gray to cream, somewhat sandy, finely glauconitic, fossiliferous (bryozoan remains, Ostracods and Foraminifera); thin beds of limestone, light-gray, dense (much calcitized), sandy, finely glauconitic, fossiliferous (some macro- and microfossils) .....	92	400
<i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> at 311-326.		
<i>Asterocyclina monticellensis</i> , <i>Siphonina claibornensis</i> at 326-329.		
Fine to coarse-grained, phosphatic sand at 350-360.		

**Tallahatta Formation:**

Sand: fine to coarse-grained, phosphatic, fossiliferous (abundant macroshells); interbedded stringers of limestone, light-gray, sandy, coarsely glauconitic; beds of marl, light-gray to yellowish-green, somewhat fissile, sandy, carbonaceous, micaceous, fossiliferous (some Foraminifera) .....	240	640
Fine to coarse-grained, phosphatic sand at 435-450.		
Fine to coarse-grained, phosphatic sand at 475-538.		
<i>Valvulineria jacksonensis</i> var., <i>Valvulineria danvillensis</i> var., <i>Cibicides tallahattensis</i> at 538-554.		
Fine to coarse-grained, phosphatic sand at 550-590.		
Limestone, light-gray, sandy, dense, coarsely glauconitic, fragments and molds of macroshells at 600-610.		
Limestone as above at 630-640.		

	Thickness (feet)	Depth (feet)
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: dark-gray, silty, carbonaceous, micaceous, pyritiferous, fossiliferous (Foraminifera at certain levels) .....	130	770
<i>Cibicides howelli</i> , <i>Cibicides blaupiedi</i> at 656-676.		
<i>Eponides dorfi</i> , <i>Alabamina wilcoxensis</i> , <i>Cibicides howelli</i> , <i>Globorotalia</i> sp. at 758-770.		
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine-grained to coarser-grained at depth; interbedded marl, dark-gray to black, finely micaceous, fossiliferous (Ostracods and Foraminifera); limestone, light-gray, dense (highly calcitized), sandy, glauconitic, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	80	850
Limestone, light-gray to white, sandy, coarsely glauconitic, macroshells at 770-784.		
<i>Robulus alabamensis</i> , <i>Eponides lotus</i> , <i>Cibicides alleni</i> , <i>Anomalina acuta</i> at 799-819.		
Limestone, light-gray, dense, sandy, coarsely glauconitic, macroshells at 823-834.		
Limestone: light-gray, dense (much calcitized) glauconitic, somewhat sandy, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	90	940
Sand: fine to coarse-grained, angular, iron-stained.....	26	966
<b>Upper Cretaceous: Providence and Ripley Formations (Undifferentiated):</b>		
Marl: bluish-gray, silty, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods and Foraminifera) .....	34	1,000
<i>Anomalina pseudopapillosa</i> at 959-974.		
Sand: fine to coarse-grained, indurated.....	25	1,025
<b>Summary:</b>		
Residuum .....	40	40
No samples .....	12	52
In upper Eocene (Ocala limestone).....	256	308
Middle Eocene (Lisbon formation).....	92	400
Middle Eocene (Tallahatta formation).....	240	640
Lower Eocene (Wilcox group, undifferentiated).....	130	770
Paleocene (Clayton formation).....	196	966
Upper Cretaceous (Providence and Ripley, undifferentiated).....	59	1,025

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	256	308
Sand: fine to coarse-grained .....	10	360
Sand: fine to coarse-grained .....	15	450
Sand: fine to coarse-grained .....	63	538
Sand: fine to coarse-grained .....	40	590
Limestone .....	90	940
Sand: fine to coarse-grained .....	26	966
Sand: fine to coarse-grained, indurated .....	25	1,025

**DOUGHERTY COUNTY**

Location: 5.12 mi. west of Dougherty-Worth County line and 1 mi. south of Atlantic Coast Line R.R. Well No.: GGS 261  
 Elev.: 204  
 Owner: No. 3 U. S. Marine Corps  
 Driller: Layne-Atlantic Company  
 Drilled: February 1952

	Thickness (feet)	Depth (feet)
No samples .....	20	20

**In Residuum:**

Clay: mottled, sandy, limonitic, and fragments of residual limestone .....	20	40
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**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white to cream, fossiliferous (macroshells, bryozoan remains, Ostracods, and some Foraminifera); denser (more calcitized) and sandier with depth .....	200	240
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**Middle Eocene: Claiborne Group: Lisbon Formation:**

Sand: fine to coarse-grained, sparsely phosphatic, fossiliferous at certain levels (macroshells); interbedded marl, light-gray to cream, somewhat sandy, finely glauconitic, fossiliferous (bryozoan remains, Ostracods, and Foraminifera); limestone, light-gray, sandy, finely glauconitic, fossiliferous (macroshells and some Foraminifera) .....	110	350
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*Cibicides westi* at 270-290.

*Operculinoides* sp., *Asterocyclus* sp., *Cibicides pseudoungerianus* var. *lisbonensis* at 290-310.

	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, phosphatic, fossiliferous at certain levels (abundant macroshells); interbedded marl, yellowish-green, somewhat sandy, micaceous, slightly carbonaceous, fossiliferous (some Foraminifera); limestone, light-gray, dense (much calcitized), sandy, coarsely glauconitic, cherty at depth, fossiliferous (macroshells) .....	266	616
<i>Cibicides tallahattensis</i> at 473-477.		
<i>Valvulineria danvillensis</i> var., <i>Valvulineria jacksonensis</i> var., <i>Cibicides tallahattensis</i> , <i>Spiroplectammina</i> sp., <i>Discorbis</i> sp. at 477-493.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: dark-brown, silty, micaceous, glauconitic, carbonaceous, pyritiferous, fossiliferous (Foraminifera at certain levels)....	74	690
<i>Anomalina umbonifera</i> , <i>Cibicides howelli</i> at 616-620.		
<i>Valvulineria</i> cf. <i>V. wilcoxensis</i> at 640-660.		
Sand: fine to medium-grained, coarser grained at depth, glauconitic .....	30	720
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine-grained, coarser grained with depth, somewhat indurated at certain levels, glauconitic, fossiliferous (macroshells and Foraminifera); interbedded marl, dark-gray to black, somewhat fissile but blocky at certain levels, carbonaceous, finely micaceous, fossiliferous .....	60	780
<i>Robulus midwayensis</i> , <i>Eponides lotus</i> , <i>Globulina gibba</i> , <i>Anomalina acuta</i> , <i>Alabama wilcoxensis</i> , <i>Gyroïdina aequilateralis</i> , <i>Cibicides alleni</i> at 720-740.		
<i>Operculinoides catenula</i> at 740-760.		
Limestone: white, dense (much calcitized), sandy, coarsely glauconitic, fossiliferous (macroshells) .....	15	795
Marl: black, fissile, carbonaceous, finely micaceous, fossiliferous (some Foraminifera) .....	5	800
Limestone: light-gray, dense (much calcitized), sandy, glauconitic, fossiliferous (fragments and molds of macroshells, bryozoan remains, Ostracods and some Foraminifera) .....	98	898
Sand: fine to coarse-grained, rather angular .....	24	922

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Providence and Ripley Formations (Undifferentiated):</b>		
Sand: fine to medium-grained, pyritiferous; interbedded marl, bluish-gray, silty, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera) .....	30	952
<i>Anomalina pseudopapillosa</i> , <i>Gaudryina</i> sp. at 921-941.		
Indurated sand: fine to coarse-grained.....	18	970
Sand: fine to medium-grained; interbedded marl, bluish-gray, silty, micaceous, pyritiferous, fossiliferous (macroshells).....	30	1,000

**Summary:**

No samples .....	20	20
In Residuum .....	20	40
Upper Eocene (Ocala limestone).....	200	240
Middle Eocene (Lisbon formation).....	110	350
Middle Eocene (Tallahatta formation).....	266	616
Lower Eocene (Wilcox group, undifferentiated).....	104	720
Paleocene (Clayton formation).....	202	922
Upper Cretaceous (Providence and Ripley, undifferentiated).....	78	1,000

**Potential Water-Bearing Zones:**

Limestone .....	200	240
Sand: fine to coarse-grained.....	10	250
Sand: fine to coarse-grained.....	20	350
Sand: fine to coarse-grained.....	18	383
Sand: fine to coarse-grained.....	30	470
Sand: fine to coarse-grained.....	56	550
Sand: fine to coarse-grained.....	15	720
Limestone .....	98	898
Sand: fine to coarse-grained.....	24	922

## DOUGHERTY COUNTY

Location: 2.6 mi. west of Dougherty-Worth County Well No.: GGS 290  
 line and 0.75 mi. south of Atlantic Coast Line R.R. Elev.: 258  
 Owner: No. 2 U.S. Marine Corps  
 Driller: Layne-Atlantic Company  
 Drilled: March 1952

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum .....	70	70
Upper Eocene (Ocala limestone).....	260	330
Middle Eocene (Lisbon formation).....	100	430
Middle Eocene (Tallahatta formation).....	240	670
Lower Eocene (Wilcox group, undifferentiated).....	150	820
Paleocene (Clayton formation).....	217	1,037

## Potential Water-Bearing Zones:

Limestone .....	245	315
Sand: fine to coarse-grained.....	36	406
Sand: fine to coarse-grained.....	28	498
Sand: fine to coarse-grained.....	64	572
Sand: fine to coarse-grained.....	50	630
Sand: fine to coarse-grained.....	18	668
Limestone .....	90	1,000
Sand: fine to coarse-grained.....	18	1,026

## Remarks:

Cuttings of extremely poor quality.

## DOUGHERTY COUNTY

Location: In Albany Well No.: GGS 405  
 Owner: No. 15 City of Albany Elev.: 197  
 Driller: Layne-Atlantic Company  
 Drilled: November 1954

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained; some residual limestone, yellow, dense (much calcitized), fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera) .....	20	20

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, saccharoidal (much calcitized), somewhat sandy, fossiliferous (Foraminifera at certain horizons).....	130	150
<i>Camerina striatoreticulata</i> at 50-60.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: white to bluish-gray, granular (in texture), sandier with increased depth, finely phosphatic, sparsely but coarsely glauconitic, fossiliferous (macroshells, abundant bryozoan remains, Ostracods, and some Foraminifera); interbedded marl, light-gray, fossiliferous (bryozoan remains and Foraminifera) .....	35	185
<i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> , <i>Cibicides westi</i> at 160-170.		
<i>Asterocyclina monticellensis</i> , <i>Operculinoides</i> sp. at 190-200.		
Limestone: as above, but sandier at depth .....	25	210
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained; some limestone, as above.....	35	245
<i>Cibicides tallahattensis</i> at 230-240.		
Limestone: bluish-gray, dense (much calcitized), sandy, coarsely but sparsely glauconitic, fossiliferous (abundant coquina and bryozoan remains); interbedded marl, light-gray, fossiliferous (Foraminifera) .....	75	320
<i>Cibicides tallahattensis</i> , <i>Cibicides blanpiedi</i> at 261-270.		
Sand: fine to coarse-grained, phosphatic; interbedded marl, dark-gray, silty, micaceous, fossiliferous (Foraminifera); limestone, white, crystalline (much calcitized), sandy, coarsely glauconitic, phosphatic, fossiliferous (macroshells) ..	92	412
Marl: dark-brown, fissile, carbonaceous, micaceous, fossiliferous (Foraminifera); interbedded sand, fine to coarse-grained, phosphatic .....	28	440
Claystone: dark-gray, dense, somewhat cherty, sandy, abundantly glauconitic .....	4	444



	Thickness (feet)	Depth (feet)
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: dark-gray, carbonaceous, micaceous, pyritiferous, fossiliferous (Foraminifera) .....	4	448
Sand: fine to medium-grained, abundantly glauconitic; interbedded marl, dark-gray, carbonaceous, micaceous, pyritiferous, fossiliferous .....	19	467
<i>Valvulineria wilcoxensis, Valvulineria scrobiculata, Eponides dorfi, Alabamina wilcoxensis, Siphonina wilcoxensis, Cibicides howelli</i> at 445-450.		
Marl: dark-gray, silty, micaceous, pyritiferous.....	51	518
Sand: fine to coarse-grained, angular, with grains of pale-green quartz; interbedded marl, dark-gray, fissile, micaceous, carbonaceous, pyritiferous.....	52	570
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: white, dense (much calcitized), sandy, coarsely glauconitic, fossiliferous (casts and molds of macroshells, echinoid and bryozoan remains, and some Foraminifera).....	4	574
<i>Operculinoides catenula, Robulus midwayensis</i> at 570-580.		
Sand: fine grained, indurated at certain horizons, finely glauconitic; interbedded marl, black, fissile, micaceous, carbonaceous, fossiliferous (some Foraminifera) .....	24	598
Limestone: light-gray, crystalline (much calcitized), sandy, coarsely glauconitic, pyritiferous, fossiliferous (fragments and molds of macroshells, bryozoan remains, Ostracods, and Foraminifera) .....	108	706
Sand: fine to coarse-grained, angular; interbedded marl, light-gray, silty, micaceous; some limestone, as above .....	30	736
<b>Upper Cretaceous: Providence and Ripley Formations (Undifferentiated):</b>		
Marl: light-gray, silty, chalky, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera); interbedded sand, fine to medium-grained, pyritiferous, micaceous .....	48	784
<i>Anomalina pseudopapillosa</i> at 734-754.		
Limestone: cream, somewhat sandy, fossiliferous (macroshells)	29	813

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, pyritiferous, micaceous, interbedded marl, gray, silty, chalky, micaceous, pyritiferous .....	63	876
Marl: bluish-gray, chalky, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera); interbedded sand, fine to medium-grained, pyritiferous, micaceous .....	99	975

*Globotruncana* sp., *Gaudryina rudita* at 948-975.

#### Summary:

Residuum .....	20	20
Upper Eocene (Ocala limestone) .....	130	150
Middle Eocene (Lisbon formation) .....	60	210
Middle Eocene (Tallahatta formation) .....	234	444
Lower Eocene (Wilcox group, undifferentiated) .....	126	570
Paleocene (Clayton formation) .....	166	736
Upper Cretaceous (Providence and Ripley, undifferentiated) .....	239	975

#### Potential Water-Bearing Zones:

Limestone .....	130	150
Sand .....	35	245
Sand: fine to coarse-grained .....	92	412
Sand: fine to coarse-grained .....	19	467
Sand: fine to coarse-grained .....	52	570
Limestone .....	108	706
Sand: fine to coarse-grained .....	30	736
Limestone .....	29	813
Sand: fine to coarse-grained .....	63	876

#### EARLY COUNTY

Location: About 6 mi. northwest of Saffold, Land Lot 406,  
26th Land District  
Owner: No. 1 A. C. Chandler  
Driller: Mont Warren et al  
Drilled: October 1943

Well No.: GGS 121  
Elev.: 187  
(derrick floor)

	Thickness (feet)	Depth (feet)
No samples .....	615	615

#### In Paleocene: Midway Group: Clayton Formation:

Indurated sand: gray, fine-grained, somewhat argillaceous, glauconitic, fossiliferous (casts of megafossils at certain

	Thickness (feet)	Depth (feet)
levels, Ostracods, and Foraminifera); sand; medium to coarse-grained, angular, glauconitic, grains of light-green quartz .....	15	630
Indurated sand: as above; interbedded marl, dark-gray to black, somewhat fissile, carbonaceous, micaceous (finely disseminated); limestone, cream, dense, crystalline, glauconitic, sandy, fossiliferous (some macroshells, bryozoan remains, Ostracods, and Foraminifera) .....	315	945
<i>Operculinoides catenula</i> , <i>Pseudophragmina stephensoni</i> at 660-675.		
<i>Robulus midwayensis</i> at 675-690.		
<i>Robulus midwayensis</i> common at 750-765.		
Limestone: gray to cream, dense, crystalline, glauconitic, sandy, cherty at certain levels, fossiliferous (some macroshells, bryozoan remains, Ostracods, and Foraminifera); interbedded marl, dark-gray to black, carbonaceous, micaceous (finely disseminated) .....	150	1,095
Marl: gray, somewhat indurated, fissile, carbonaceous, micaceous, fossiliferous (Ostracods and Foraminifera); interbedded limestone, as above .....	110	1,205
<b>Upper Cretaceous: Post-Eutaw (Undifferentiated):</b>		
Marl: dark, bluish-gray to brown, gray and chalky at depth, silty, micaceous, abundantly glauconitic, carbonaceous, pyritiferous, fossiliferous (at certain horizons macroshells, Ostracods, and Foraminifera) .....	1,255	2,460
<i>Globotruncana</i> sp., <i>Guembelina striata</i> at 1213-1228.		
<i>Bolivinooides decorata</i> at 1268-1283.		
<i>Planulina texana</i> common at 1553-1569.		
<i>Kyphopyxa christneri</i> at 1591-1605.		
<i>Vaginulina texana</i> at 2108-2123.		
<b>Eutaw Formation (Restricted):</b>		
Indurated sand: fine to medium-grained, micaceous, glauconitic at depth, phosphatic, fossiliferous (oyster shells) .....	130	2,590
<b>Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, subangular, arkosic, micaceous; interbedded clay, pale to dark-yellowish-green, laminated, silty, finely micaceous, somewhat iron-stained .....	250	2,840

	Thickness (feet)	Depth (feet)
Sand: as above; interbedded shale, dark-gray to black, fissile, silty, carbonaceous, finely micaceous .....	125	2,965
Shale: as above; interbedded sand, fine-grained, micaceous .....	120	3,085
Indurated sand: fine to medium-grained, subangular, glauconitic, micaceous .....	20	3,105
Sand: fine to coarse-grained, subangular, arkosic, micaceous.....	62	3,167
Sand: as above; interbedded clay, dark-gray to greenish-gray with red to purple streaks (mottled), sandy, micaceous, sideritic .....	48	3,215

Sideritic nodules common to abundant at 3167-3182.

#### Lower Cretaceous(?) (Undifferentiated):

Sand: coarse-grained, subangular to subrounded, varicolored, cherty, arkosic; interbedded clay, mottled, somewhat waxy in appearance, very micaceous, sandy.....	161	3,376
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#### Summary:

No samples .....	615	615
In Paleocene (Clayton formation).....	590	1,205
Upper Cretaceous (post-Eutaw, undifferentiated).....	1,255	2,460
Upper Cretaceous (Eutaw formation, restricted).....	130	2,590
Upper Cretaceous (Tuscaloosa formation).....	625	3,215
In Lower Cretaceous (?) (undifferentiated).....	161	3,376

#### Potential Water-Bearing Zones:

Limestone .....	150	1,095
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#### Remarks:

On the basis of the above log good aquifers are scarce. In this part of Georgia the entire post-Tuscaloosa Cretaceous section has become marine, hence has "silted-up", leaving very few, if any, well developed sands that can be utilized as sources of ground water. Consequently the first good water-bearing sands occur in the more deeply-buried Tuscaloosa formation, beginning at a depth of 2590. Above the Cretaceous the only reliable, relatively shallow-lying aquifers are the Clayton formation (noted above) and the lower Wilcox sands. The latter are not reported in this well log because the samples were not collected until a depth of 615 had been reached.

<sup>1</sup>Not reported below 3,376. Total depth 7,320 feet.

## EARLY COUNTY

Location: In Recreation Area, Kolomoki State Park  
 Owner: No. 1 Kolomoki State Park  
 Driller: V. C. Mickle  
 Drilled: 1940

Well No.: GGS 138  
 Elev.: 272

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: bluish-gray to red (mottled), sandy, limonitic; some residual limestone, more abundant with depth .....	35	35
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: light-gray, dense, rather massive, crystalline, sandy, cherty, glauconitic (finely disseminated grains), fossiliferous (macroshells and some bryozoan remains); interbedded marl, light-gray, silty, micaceous, somewhat carbonaceous, fossiliferous (some Foraminifera) .....	75	110
<i>Cibicides westi</i> at 65-75.		
<b>Tallahatta Formation:</b>		
Sand: fine to medium-grained, subangular, phosphatic; interbedded clay, dark-green, sandy, micaceous .....	78	188
Limestone: light-gray, dense, crystalline, massive, sandy, coarsely glauconitic, fossiliferous (fragments and molds of Gastropods) .....	10	198
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-brown, silty, carbonaceous, micaceous, pyritiferous, fossiliferous (Foraminifera at depth) .....	190	388
<i>Robulus</i> sp., <i>Eponides dorfi</i> , <i>Alabama wilcoxensis</i> , <i>Valvulineria scrobiculata</i> at 218-228.		
Sand: fine to medium-grained, subangular, abundantly glauconitic .....	10	398
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: medium to coarse-grained, subangular grains of pale-green quartz .....	30	428

	Thickness (feet)	Depth (feet)
Indurated sand: gray, fine-grained, glauconitic (finely disseminated grains); interbedded marl, dark-gray to black, fissile, carbonaceous, micaceous, fossiliferous (Foraminifera)	40	468
<i>Pseudophragmina stephensoni</i> at 438-448.		
<i>Robulus midwayensis</i> at 448-458.		
Limestone: light-gray to white at depth, crystalline, much calcitized, sandy, fossiliferous (some macroshells, bryozoan remains, and Foraminifera)	106	574

**Summary:**

Residuum	35	35
Middle Eocene (Lisbon formation)	75	110
Middle Eocene (Tallahatta formation)	88	198
Lower Eocene (Wilcox group, undifferentiated)	200	398
Paleocene (Clayton formation)	176	574

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained	58	168
Sand: fine to coarse-grained	30	428
Limestone	100	574

**EARLY COUNTY**

Location: In Kolomoki State Park  
 Owner: No. 2 Kolomoki State Park  
 Driller: Layne-Atlantic Company  
 Drilled: August 1951

Well No.: GGS 234

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: bluish-gray to red (somewhat mottled), sandy, limonitic	18	18
Sand: coarse-grained, angular, and some residual limestone	15	33
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: light-gray, dense, rather massive, glauconitic, sandy; interbedded marl, light-gray, silty, micaceous, somewhat carbonaceous, sandy, fossiliferous (Foraminifera)	32	65
<i>Cibicides westi</i> at 45-65.		

	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, angular, phosphatic.....	80	145

**Summary:**

Residuum .....	33	33
Middle Eocene (Lisbon formation).....	32	65
Middle Eocene (Tallahatta formation).....	80	145

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	80	145
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**EARLY COUNTY**

Location: In Blakely  
 Owner: City of Blakely  
 Driller: Beasely Drilling Company  
 Drilled: September 1952

Well No.: GGS 321  
 Elev.: 270

	Thickness (feet)	Depth (feet)
No samples .....	320	320

**In Middle Eocene: Claiborne Group: Tallahatta Formation:**

Sand: fine to coarse-grained, subangular, glauconitic, fossiliferous (macroshells and some Foraminifera) .....	40	360
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*Valvulineria jacksonensis* var., *Valvulineria danvillensis* var., *Asterigerina lisbonensis*, *Cibicides tallahattensis* at 320-360.

Limestone: white, dense, nodular, cherty.....	?	360
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No samples .....	40	400
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**In Lower Eocene: Wilcox Group (Undifferentiated):**

Clay: dark-gray, silty, carbonaceous, micaceous, fossiliferous (some Foraminifera) .....	151	551
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*Robulus* sp., *Valvulineria scrobiculata*, *Siphonina wilcoxensis* at 400-551.

Sand: fine to coarse-grained, subangular, somewhat indurated at depth, abundantly glauconitic, grains of pale-green quartz .....	19	570
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No samples .....	30	600
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	Thickness (feet)	Depth (feet)
<b>In Paleocene: Midway Group: Clayton Formation:</b>		
Indurated sand: fine to coarse-grained, subangular, rather dense and nonporous .....	?	600
No samples .....	60	660
Limestone: light-gray, extremely dense and crystalline, sandy, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	?	660
<i>Nodosaria affinis</i> , <i>Robulus midwayensis</i> at 660.		

**Summary:**

No samples .....	320	320
In middle Eocene (Tallahatta formation) .....	40	360
No samples .....	40	400
In lower Eocene (Wilcox group, undifferentiated) .....	170	570
No samples .....	30	600
In Paleocene (Clayton formation) .....	60	660

**Potential Water-Bearing Zones:**

Limestone occurring below depth of 660.

**EARLY COUNTY**

Location: 1.2 mi. north of Saffold  
 Owner: No. 1 Jakin Elementary School  
 Driller: E. J. Carlisle  
 Drilled: August 1953

Well No.: GGS 351  
 Elev.: 201

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: gray to pink to purple (mottled), very sandy, limonitic .....	45	45
Sand: fine to coarse-grained, subangular, arkosic .....	30	75
Clay: tan, very sandy, limonitic, with scattered fragments of residual limestone .....	15	90
Sand: medium to coarse-grained, subangular, arkosic; some clay, as above .....	45	135



	Thickness (feet)	Depth (feet)
<b>In Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Clay: dark-green, somewhat indurated and tough, coarsely glauconitic, sandy, fossiliferous (small Gastropods, Ostracods, and Foraminifera) .....	105	240
<i>Siphonina claibornensis</i> , <i>Cibicides westi</i> , <i>Asterocyclina</i> sp. at 135-150.		
<i>Lepidocyclina</i> sp., and <i>Operculinoides</i> sp. common to abundant at 150-165.		
Limestone: yellow, dense and crystalline, sandy, coarsely glauconitic, fossiliferous (a coquina) .....	45	285
<b>Tallahatta Formation:</b>		
Sand: coarse-grained, subangular clay, tan, sandy; some limestone, yellow, rather soft and leached, sandy .....	15	300
Claystone (or argillaceous sandstone): dark-green, extremely dense and somewhat crystalline, coarsely glauconitic, cherty (a buhrstone), carbonaceous, fossiliferous (some macroshells); clay, gray to tan to pink (mottled), sandy .....	120	420
Indurated sand: fine to medium-grained, subangular, coarsely glauconitic .....	12	432
Limestone: gray, very dense and massive, crystalline, sandy, coarsely glauconitic, fossiliferous (fragments, casts and molds of Pelecypods) .....	20	452
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Sand: fine to medium-grained, subangular, somewhat indurated at certain levels, coarsely but abundantly glauconitic..	50	502
Limestone: gray, dense and crystalline, coarsely and abundantly glauconitic, fossiliferous (megafossils); some clay, dark-brown, silty, lignitic, micaceous, pyritiferous, fossiliferous (Foraminifera at certain levels) .....	20	522
Clay: as in above sample.....	236	758

	Thickness (feet)	Depth (feet)
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Indurated sand: fine to medium-grained, subangular, glauconitic, fossiliferous (macroshells, Ostracods, and Foraminifera) .....	70	828
Macroshells abundant at 768-778.		
<i>Discorbis midwayensis</i> at 768-778.		
<i>Operculinoides catenula</i> common at 788-798.		
Limestone: gray, nodular, sandy, fossiliferous (some macroshells, bryozoan remains, and Foraminifera) .....	22	850
<i>Pseudophragmina stephensoni</i> at 838-850.		

**Summary:**

Residuum .....	135	135
In middle Eocene (Lisbon formation) .....	150	285
In middle Eocene (Tallahatta formation) .....	167	452
Lower Eocene (Wilcox group, undifferentiated) .....	306	758
Paleocene (Clayton formation) .....	92	850

**Potential Water-Bearing Zones:**

Sand: fine to medium-grained .....	50	502
Indurated sand grading downward into limestone .....	92	850

**Remarks:**

The main body of the Clayton formation proper lies below total depth of this well. For abundant ground-water supplies the well should be drilled deeper into the Clayton formation.

**EARLY COUNTY**

Location: 1 mi. south of road intersection in Damascus, east side of Highway 45, between highway and Seaboard Airline R.R. Well No.: GGS 358  
Elev.: 229

Owner: No. 1 Kestler School  
Driller: E. J. Carlisle  
Drilled: August 1953

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: bluish-gray to purple to red (mottled), sandy, limonitic, residual limestone at depth .....	85	85

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: yellow, much calcitized, dense, crystalline, fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera) .....	46	131
<i>Operculina</i> cf. <i>O. mariannensis</i> , <i>Lepidocyclina</i> sp., <i>Amphistegina pinarensis</i> var. at 120-131.		

**Summary:**

Residuum .....	85	85
Upper Eocene (Ocala limestone).....	46	131

**Potential Water-Bearing Zones:**

Limestone .....	21	131
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**Remarks:**

Additional aquifers occur below total depth of this well.

**EARLY COUNTY**

Location: 7 mi. southeast of Blakely, west side of Highway 27, at dwelling  
 Well No.: GGS 437  
 Elev.: 178  
 Owner: No. 1 Farmers Gin and Warehouse Company  
 Driller: Layne-Atlantic Company  
 Drilled: June 1955

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: tan, argillaceous, fine to coarse-grained, subangular, limonitic .....	4	4
Clay: gray to pink (mottled), very sandy, limonitic.....	19	23
Clay: gray to tan to dark-brown, with red streaks (somewhat mottled), very sandy, abundantly limonitic, and fragments of residual limestone.....	21	44

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: yellow, somewhat nodular, increasingly calcitized and crystalline with depth, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	48	92
<i>Operculina mariannensis</i> , <i>Asterocyclina</i> sp., <i>Gypsina globula</i> at 44-59.		
<i>Camerina striatoreticulata</i> at 70-92.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: dark-gray, dense and crystalline, very sandy, coarsely glauconitic, fossiliferous (macroshells, bryozoan remains, and Foraminifera); dolomitic limestone, light-brown, saccharoidal, carbonaceous; marl, gray, silty, fossiliferous (Foraminifera) .....	16	108
<i>Siphonina claibornensis</i> , <i>Cibicides westi</i> at 92-104.		
Sand: somewhat indurated and dense, fine to coarse-grained, subangular, phosphatic .....	32	140
Clay: dark-green, sandy, fossiliferous (macroshells, bryozoan, and Foraminifera) .....	22	162
<b>Tallahatta Formation:</b>		
Sand: fine to medium-grained, subangular, phosphatic .....	24	186
Limestone: gray to light-brown, massive, very sandy, glauconitic, phosphatic, fossiliferous (a coquina and some bryozoan remains) .....	21	207
Sand: fine to coarse-grained, subangular, phosphatic .....	95	302
Clay: yellowish-green, progressively more indurated with depth (a claystone at depth), very sandy, phosphatic, fossiliferous (fragments, casts and molds of Gastropods) .....	23	325
Sand: fine to medium-grained, subangular, somewhat indurated at certain levels, abundantly glauconitic, fossiliferous (macroshells) .....	19	344
Limestone: gray, coarsely glauconitic, sandy, fossiliferous (macroshells) .....	12	356
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: dark-gray, sandy, carbonaceous, micaceous, pyritiferous, fossiliferous (Foraminifera at certain levels) .....	192	548
<i>Robulus</i> sp., <i>Marginulina</i> sp., <i>Eponides dorfi</i> , <i>Discorbis</i> sp., <i>Valvulineria scrobiculata</i> , <i>Cibicides howelli</i> , <i>Anomalina</i> sp. at 350-371.		

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, subangular, glauconitic .....	24	572
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine to medium-grained, somewhat indurated at certain levels, fossiliferous at depth (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	46	618
<i>Nodosaria affinis</i> , <i>Robulus midwayensis</i> , <i>Eponides lotus</i> , <i>Guttulina</i> sp. at 596-617.		
Indurated sand: as above; interbedded clay, gray, silty, carbonaceous, micaceous .....	45	663
<i>Pseudophragmina stephensoni</i> at 617-627.		
<i>Operculinoides catenula</i> common at 638-663.		
Limestone: light-gray, rather dense, progressively sandier with increased depth, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	21	684
Indurated sand: gray, fine-grained, subangular, glauconitic (finely disseminated grains) .....	30	714
Sand: fine to coarse-grained, subangular; interbedded clay, light-gray, silty, somewhat indurated, fissile; some indurated sands, as above .....	158	872
Sand: fine to coarse-grained, subangular; interbedded clay, gray, chalky, micaceous .....	102	974
Indurated sand: fine to coarse-grained, subangular, fossiliferous (a coquina) .....	42	1,016
Sand: fine to coarse-grained, subangular; interbedded clay, as above .....	13	1,029
<b>Upper Cretaceous: Providence and Ripley Formations (Undifferentiated):</b>		
Sand: fine to coarse-grained, subangular; interbedded marl, gray, chalky, micaceous, fossiliferous (some Foraminifera)....	91	1,120
<i>Guembelina</i> sp., <i>Globotruncana cretacea</i> at 1029-1049.		

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum .....	44	44
Upper Eocene (Ocala limestone).....	48	92
Middle Eocene (Lisbon formation).....	70	162
Middle Eocene (Tallahatta formation).....	194	356
Lower Eocene (Wilcox group, undifferentiated).....	216	572
Paleocene (Clayton formation).....	457	1,029
Upper Cretaceous (Providence and Ripley, undifferentiated).....	91	1,120

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	95	302
Sand: fine to coarse-grained.....	24	572
Limestone .....	21	684
Sand: fine to coarse-grained.....	42	1,016

**EARLY COUNTY**

Location: 1,738 ft. south and 11 ft. west of northeast corner of Land Lot 341, 26th Land District      Well No.: GGS 483  
 Owner: No. 1 R. V. Ellis      Elev.: 163  
 Driller: Sun Oil Company      (derrick floor)

	Thickness (feet)	Depth (feet)
No samples .....	80	80

**In Middle Eocene: Claiborne Group: Lisbon Formation:**

Sand: fine to coarse-grained, angular; some marl, gray, silty, micaceous, fossiliferous (*Radiolaria* and some *Foraminifera*); limestone, yellow to light-gray at depth, crystalline, much calcitized, coarsely glauconitic, sandy, fossiliferous (megafossils and some *Foraminifera*) .....

120      200

*Sigmoilina* sp., *Nonion* sp., *Radiolaria* at 80-120.

*Cibicides pseudoungerianus* var. *lisbonensis*, *Operculinoides* sp. at 120-160.

*Asterocyclina* sp. at 160-200.

**Tallahatta Formation:**

Marl: light-gray, silty, micaceous, fossiliferous (some *Foraminifera*); limestone, as above.....

80      280

*Valvulineria jacksonensis* var., *Cibicides tallahattensis* at 200-240.

	Thickness (feet)	Depth (feet)
Limestone: light-gray, extremely dense, sandy, phosphatic, coarsely glauconitic, fossiliferous (fragments and molds of megafossils) .....	40	320
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: dark-brown, silty, carbonaceous, micaceous, pyritiferous, fossiliferous (some Foraminifera at certain levels) .....	320	640
<i>Valvulineria wilcoxensis</i> at 320-360.		
<i>Eponides dorfi</i> , <i>Valvulineria wilcoxensis</i> at 360-400.		
Sand bed 560-620.		
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Indurated sand: fine-grained, gray, finely glauconitic, fossiliferous (megafossils, bryozoan remains, Ostracods, and Foraminifera) .....	80	720
<i>Operculinoides catenula</i> , <i>Asterocyclina</i> sp., <i>Robulus midwayensis</i> at 680-720.		
Limestone: yellow, gray to white at depth, very dense, crystalline, sandy, coarsely glauconitic, pyritiferous, fossiliferous (megafossils, bryozoan remains, and some Foraminifera) .....	320	1,040
Marl: light-gray, somewhat indurated, chalky, micaceous, fossiliferous (Foraminifera <sup>1</sup> ) .....	80	1,120
<i>Globorotalia</i> sp., <i>Pseudoglandulina</i> sp. at 1040-1080.		
<b>Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Marl: gray, chalky, micaceous, pyritiferous, glauconitic, fossiliferous (common to abundant Foraminifera) .....	1,200	2,320
<i>Globotruncana cretacea</i> at 1120-1160.		
<i>Globotruncana cretacea</i> common, <i>Guembelina</i> sp., <i>Loxostoma plaitum</i> , <i>Dorothia</i> sp., <i>Bolivinoidea decorata</i> at 1160-1200.		
<i>Planulina texana</i> at 1360-1400.		
<i>Kyphopyxa christneri</i> at 1520-1560.		
<i>Vaginulina texana</i> at 2040-2080.		
Marl: as above, but somewhat sandier.....	80	2,400
No samples .....	10	2,410

<sup>1</sup>Tamesi fauna.

	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained, somewhat indurated, angular, micaceous, glauconitic, phosphatic, fossiliferous (macroshells) .....	40	2,450

**Tuscaloosa Formation:**

Sand: fine to coarse-grained, angular, a few grains of "rose quartz"; interbedded clay, yellowish-green to purple (mottled), sandy, micaceous .....	290	2,740
Clay or Shale: dark-gray to black, fissile, carbonaceous, micaceous (finely disseminated producing a speckled appearance), fossiliferous (imprints of megafossils at certain levels) .....	290	3,030
Sand: medium to coarse-grained, angular .....	30	3,060
Sand: coarse-grained, angular, arkosic, massive, a few grains of "rose quartz"; interbedded clay, brick-red to dark-green (mottled), waxy, sideritic, micaceous, sandy .....	115	3,175

**Summary:**

No samples .....	80	80
In middle Eocene (Lisbon formation) .....	120	200
Middle Eocene (Tallahatta formation) .....	120	320
Lower Eocene (Wilcox group, undifferentiated) .....	320	640
Paleocene (Clayton formation) .....	480	1,120
Upper Cretaceous (post-Tuscaloosa, undifferentiated) .....	1,330	2,450
Upper Cretaceous (Tuscaloosa formation) .....	725	3,175

**Potential Water-Bearing Zones:**

Sand: fine to medium-grained .....	60	620
Limestone .....	280	1,040

**ECHOLS COUNTY**

Location: 660 ft. south, 666 ft. east of northwest corner of  
 Land Lot 146, 12th Land District  
 Well No.: GGS 189  
 Elev.: 181  
 Owner: No. 1 Bennett and Langdale  
 (derrick floor)  
 Driller: Humble Oil and Refining Company  
 Drilled: May 1949

	Thickness (feet)	Depth (feet)
No samples .....	170	170



	Thickness (feet)	Depth (feet)
<b>In Miocene (Undifferentiated):</b>		
Limestone: white, calcitized, dense, sandy, sparsely phosphatic, cherty at certain levels.....	40	210
Limestone: brown, somewhat dolomitized, much calcitized, rather massive, sandy, sparsely phosphatic.....	10	220
Limestone: cream, much calcitized, granular, very sandy .....	20	240
Clay: considerably indurated, bluish-green, sandy.....	5	245
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, much calcitized, dense, rather massive, somewhat nodular, fossiliferous (bryozoan remains and some Foraminifera) .....	135	380
<i>Dictyoconus</i> <sup>1</sup> sp. at 245-250.		
<i>Quinqueloculina</i> sp., <i>Dictyoconus</i> <sup>1</sup> sp. at 250-255.		
Limestone: light-gray, massive, much calcitized, somewhat nodular, fossiliferous (some macroshells, echinoid and bryozoan remains, and Foraminifera) .....	60	440
<i>Operculinoides</i> sp. at 390-395.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, granular, somewhat loosely consolidated, fossiliferous (Foraminifera) .....	65	505
<i>Pseudophragmina flintensis</i> at 450-455.		
No samples .....	795	1,300
<b>In Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Limestone: dark-brown, saccharoidal, somewhat dolomitized, cherty at certain levels; interbedded limestone, cream, calcitized, granular, rather loosely consolidated, cherty, gypsiferous, sparsely glauconitic .....	450	1,750
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Sand: fine to medium-grained, subangular, coarsely glauconitic, fossiliferous (some Foraminifera).....	30	1,780
<i>Asterocyclina</i> sp. at 1770-1780.		
Limestone: cream, somewhat nodular, calcitized, cherty; interbedded clay, pale-greenish-gray, silty, micaceous .....	185	1,965

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained, subangular, somewhat indurated at certain levels, coarsely glauconitic, pyritiferous.....	35	2,000
Limestone: cream, granular, somewhat loosely consolidated, cherty, fossiliferous (some Foraminifera at certain levels)....	295	2,295
<i>Asterocyclina</i> sp. common at 2000-2010.		

**Paleocene: Midway Group: Clayton Formation:**

Clay: rather dark-greenish-gray, laminated, silty, micaceous.....	50	2,345
Limestone: cream to gray, rather dense and calcitized, granular, somewhat loosely consolidated at depth, coarsely glauconitic, fossiliferous at certain levels (Foraminifera).....	115	2,460
<i>Asterocyclina</i> sp. common at 2350-2360.		
Marl: light-gray, silty, micaceous, sparsely fossiliferous (some Foraminifera); interbedded limestone, as above .....	210	2,670
No samples .....	340	3,010

**In Upper Cretaceous: Post-Eutaw (Undifferentiated):**

Marl: light-gray, brownish-gray at depth, chalky, micaceous, glauconitic, pyritiferous, fossiliferous (some megafossils, Ostracods, and Foraminifera); interbedded sand at depth, fine-grained, subangular to subrounded, micaceous, glauconitic; sand, somewhat indurated at certain levels, subangular to subrounded, micaceous, phosphatic, fossiliferous at certain levels (some vertebrate remains such as fish teeth and macroshells) .....	330	3,340
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*Kyphopyxa christneri* at 3010-3020.*Vaginulina texana* at 3070-3080.**Eutaw Formation (Restricted):**

Sand: light-gray, fine-grained, subangular to subrounded, phosphatic, micaceous, pyritiferous, fossiliferous at certain levels (fish teeth and abundant macroshells).....	70	3,410
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**Tuscaloosa Formation:**

Clay: pale-green, laminated, micaceous, somewhat sandy; interbedded sand, coarse-grained, subangular, micaceous, limonitic .....	210	3,620
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	Thickness (feet)	Depth (feet)
Clay: dark-gray to black, laminated, somewhat fissile, silty, micaceous (finely disseminated flakes imparting a speckled appearance), carbonaceous; interbedded sand, fine-grained, somewhat indurated at certain levels, subangular, very micaceous, phosphatic and glauconitic at various levels .....	110	3,730
Sand: coarse-grained, subrounded, varicolored, arkosic, grains of white to pink feldspar; interbedded clay; yellowish to brownish-green with brick-red to purple streaks (mottled), somewhat blocky, greasy-appearing, very micaceous, sandy....	370	4,100 <sup>2</sup>

#### Summary:

No samples .....	170	170
In Miocene (undifferentiated).....	75	245
Oligocene (undifferentiated) .....	195	440
Upper Eocene (Ocala limestone).....	65	505
No samples .....	795	1,300
In middle Eocene (Claiborne group, undifferentiated).....	450	1,750
Lower Eocene (Wilcox group, undifferentiated).....	545	2,295
Paleocene (Clayton formation).....	375	2,670
No samples .....	340	3,010
In Upper Cretaceous (post-Eutaw, undifferentiated).....	330	3,340
Upper Cretaceous (Eutaw formation, restricted).....	70	3,410
Upper Cretaceous (Tuscaloosa formation).....	690	4,100 <sup>2</sup>

#### Potential Water-Bearing Zones:

Limestone .....	260	505
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#### EFFINGHAM COUNTY

Location: In Springfield  
 Owner: City of Springfield  
 Driller: Virginia Supply and Well Company  
 Drilled: 1950

Well No.: GGS 211  
 Elev.: 75

	Thickness (feet)	Depth (feet)
No samples .....	20	20
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic, micaceous .....	50	70

<sup>2</sup>Not logged below 4100.

	Thickness (feet)	Depth (feet)
Reddish-brown to jet-black phosphatic pebbles abundant at 20-70.		
Clay: as above; limestone, white, somewhat saccharoidal, dense, sandy .....	125	195

**Oligocene (Undifferentiated):**

Limestone: cream, nodular, fossiliferous (casts and molds of megafossils, some bryozoan remains, and Foraminifera)....	22	217
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 195-217.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white, much calcitized, fossiliferous (common to abundant bryozoan remains and Foraminifera) .....	183	400
<i>Operculinoides floridensis</i> , <i>Siphonina jacksonensis</i> , <i>Eponides cocoaensis</i> , <i>Eponides jacksonensis</i> , <i>Planulina cocoaensis</i> , <i>Planularia</i> sp. at 217-240.		

**Summary:**

No samples .....	20	20
In Miocene (undifferentiated) .....	175	195
Oligocene (undifferentiated) .....	22	217
Upper Eocene (Ocala limestone) .....	183	400

**Potential Water-Bearing Zones:**

Limestone .....	205	400
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**Remarks:**

Samples of poor quality and contaminated with sand from 195 to total depth.

**EFFINGHAM COUNTY**

Location: 2.5 mi. west of Springfield, on State Highway 119  
 Owner: No. 1 Effingham County High School  
 Driller: Cecil Turner  
 Drilled: 1955

Well No.: GGS 457  
 Elev.: 85

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: fine to medium-grained, angular, arkosic; inclusions of kaolin, light, gray, sandy, micaceous.....	30	30
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	Thickness (feet)	Depth (feet)
Sand: fine-grained, arkosic, finely disseminated phosphatic grains .....	25	55
<b>Miocene (Undifferentiated):</b>		
Sand: fine to medium-grained, somewhat phosphatic; clay, dark-green, somewhat granular, sandy, phosphatic, micaceous .....	45	100
Clay: dark-gray, sandy, micaceous, phosphatic .....	60	160
Reddish-brown, phosphatic fragments present at 120.		
Clay: as above, but somewhat cherty, fossiliferous (macroshells); interbedded limestone, white, sandy .....	60	220
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; some clay, as above .....	20	240
Clay: dark-green, blocky, phosphatic .....	37	277
<b>Oligocene (Undifferentiated):</b>		
Limestone: gray to cream, nodular (much calcitized), cherty at depth, fossiliferous (casts and molds of megafossils, bryozoan remains, and Foraminifera) .....	83	360
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp., <i>Robulus cultratus</i> , <i>Dictyoconus</i> <sup>1</sup> sp. at 280.		
<i>Lepidocyclina (Polylepidina) antillea</i> <sup>1</sup> at 290.		
<i>Gypsina globula</i> <sup>1</sup> at 320.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	55	55
Miocene (undifferentiated) .....	222	277
Oligocene (undifferentiated) .....	83	360
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	83	360

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## EFFINGHAM COUNTY

Location: 1 mi. north of Springfield, on State High- Well No.: GGS 458  
 way 21 Elev.: 70  
 Owner: Effingham County Elementary and High School  
 Driller: Cecil Turner  
 Drilled: 1955

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, angular, arkosic; clay; bluish-gray to yellowish-green to tan to red (mottled), sandy, finely disseminated phosphatic grains .....	55	55
<b>Miocene (Undifferentiated):</b>		
Sand: fine-grained, finely disseminated phosphatic grains; clay, dark-green, sandy, somewhat granular, micaceous phosphatic .....	75	130
Reddish-brown to jet-black phosphatic pebbles common at 80.		
Limestone: cream, saccharoidal (much calcitized), sandy, phosphatic; clay, as above.....	10	140
Sand: fine to medium-grained, angular, phosphatic .....	10	150
Clay: dark-green, sandy, abundantly phosphatic, somewhat cherty .....	80	230
Limestone: light-gray, extremely dense (highly calcitized), saccharoidal, sandy, phosphatic, fossiliferous (macroshells and some bryozoan remains) .....	10	240
Sand: fine to coarse-grained, phosphatic; some limestone, as above .....	10	250
<b>Oligocene (Undifferentiated):</b>		
Limestone: gray to cream, nodular (much calcitized), fossiliferous (casts and impressions of megafossils, some echinoid and bryozoan remains, and Foraminifera) .....	40	290
<i>Dictyoconus</i> <sup>1</sup> sp., <i>Gypsina globula</i> <sup>1</sup> , <i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 250.		
Limestone: cream, massive (calcitized), somewhat crystalline (in texture), sparsely fossiliferous .....	65	355

<sup>1</sup>Reworked(?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, much calcitized, crystalline, fossiliferous, (abundant bryozoan and echinoid remains and Foraminifera) .....	5	360

*Robulus alato-limbatus*, *Robulus arcuato-striatus* var., *Saracenaria* sp., *Eponides cocoaensis*, *Planularia* sp., *Marginulina subtilius*, *Textularia conica*, *Guttulina irregularis*, *Guttulina spicaeformis*, *Globulina gibba*, *Sigmomorphina semitecta* var., *Cancris sagra*, *Siphonina jacksonensis*, *Alabama* *obtusa*, *Discorbis assulata*, *Cibicides lobatulus* at 360.

#### Summary:

Pliocene to Recent (undifferentiated) .....	55	55
Miocene (undifferentiated) .....	195	250
Oligocene (undifferentiated) .....	105	355
Upper Eocene (Ocala limestone) .....	5	360

#### Potential Water-Bearing Zones:

Sand: fine to medium-grained .....	10	150
Sand: fine to coarse-grained .....	10	250
Limestone .....	110	360

#### EFFINGHAM COUNTY

Location: North of U.S. Highway 80 at Faulkville      Well No.: GGS 569  
 Owner: No. 1 Savannah Foundation                      Elev.: 42  
 Drilled: 1959

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, subrounded, arkosic; interbedded clay, dark-green to red (mottled), sandy, micaceous .....	128	128
Clay: dark-green, blocky, sandy, micaceous, phosphatic .....	79	207
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic .....	20	227
No samples .....	21	248
Clay: yellowish-green, sandy, finely disseminated black phosphatic? grains .....	61	309

	Thickness (feet)	Depth (feet)
Limestone: light-gray, dense, crystalline, sandy, phosphatic, fossiliferous (fragments, casts and molds of macroshells); sand, fine to coarse-grained, subrounded, phosphatic .....	10	319

**Oligocene (Undifferentiated):**

Limestone: light-gray, nodular, somewhat crystalline and saccharoidal, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	21	340
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*Asterocyclina*<sup>1</sup> sp., *Pyrgo* sp., *Rotalia byramensis* var. at 319-330.

*Dictyoconus*<sup>1</sup> sp. at 330-340.

*Gypsina globula*<sup>1</sup>, *Quinqueloculina* sp. common, *Pyrgo* sp., *Reussella oligocenica*, *Discorbis alabamensis*, *Rotalia byramensis* var., *Globulina* sp., *Baggina xenoula*, *Cibicides lobatulus* at 340-350.

*Dictyoconus*<sup>1</sup> sp. common at 360-370.

Limestone: <sup>2</sup> cream, somewhat soft and weathered(?), fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera) .....	60	400
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**Summary:**

Miocene (undifferentiated) .....	319	319
Oligocene (undifferentiated) .....	81	400

**Potential Water-Bearing Zones:**

Limestone .....	81	400
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**EMANUEL COUNTY**

Location: 0.9 miles southwest of Courthouse in Swainsboro  
 Well No.: GGS 176  
 Elev.: 330  
 Owner: No. 3 City of Swainsboro  
 Driller: Virginia Supply and Well Company  
 Drilled: February 1949

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, dark-green at depth, blocky, sandy; interbedded sand, fine to coarse-grained, angular, arkosic; limestone, yellow to white, massive, crystalline (in texture), sandy .....	178	178

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

<sup>2</sup>May be Ocala limestone of upper Eocene age.



	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: white, dense, crystalline or saccharoidal at certain levels, cherty, coarsely glauconitic at depth, fossiliferous (casts and molds of megafossils, echinoid and bryozoan remains, and Foraminifera); interbedded sand, fine to coarse-grained, angular; clay, gray, sandy .....	180	358
<i>Asterigerina subacuta</i> , <i>Reussella byramensis</i> , <i>Nonion advena</i> , <i>Rotalia</i> sp., <i>Cibicides americanus</i> at 223-236.		
<b>In Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Marl: gray, silty, sparsely glauconitic, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	132	490
<i>Nonion inexcavatus</i> , <i>Nonion advena</i> , <i>Valvulineria jacksonensis</i> , <i>Discorbis assulata</i> at 358-398.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Marl: light-gray to cream, somewhat sandy, limey, with inclusions of hard lime nodules, Ostracods and Foraminifera at certain levels; interbedded sand, fine to coarse, subangular to subrounded, molluscan shells; thin beds of limestone, light-gray, dense, crystalline, sandy, phosphatic .....	160	650
<i>Operculinoides</i> sp., <i>Lepidocyclus</i> sp. at 490-498.		
<i>Cibicides westi</i> at 611-616.		
Glauconite prominent at 621-650.		
Limestone: gray, dense, massive, sandy, phosphatic, at certain levels fragments, molds and impressions of megafossils; interbedded beds of indurated sand, fine to coarse, subangular to subrounded, phosphatic, molluscan shells common .....	100	750
<i>Operculinoides</i> sp. at 710-723.		
Limestone: cream, much calcitized, granular, cherty, Ostracods and Foraminifera at certain levels .....	62	812
Sand: fine to coarse-grained, subangular to subrounded, phosphatic .....	11	823
<b>Tallahatta Formation:</b>		
Marl: pale-green, somewhat sandy, micaceous, phosphatic, fish teeth, molluscan shells (small Gastropods and Pelecypods), Radiolaria and some Foraminifera .....	20	843

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, subangular to subrounded, phosphatic .....	27	870
Marl: as above .....	3	873

**Summary:**

Miocene (undifferentiated) .....	178	178
Oligocene (undifferentiated) .....	180	358
In upper Eocene (Barnwell formation) .....	132	490
Middle Eocene (Lisbon formation) .....	333	823
Middle Eocene (Tallahatta formation) .....	50	873

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	3	72
Sand: fine to coarse-grained .....	5	155
Sand: fine to coarse-grained .....	16	358
Sand: fine to coarse-grained .....	13	550
Sand: fine to coarse-grained .....	10	682
Sand: fine to coarse-grained .....	11	823
Sand: fine to coarse-grained .....	27	870

**Remarks:**

1. The limestones noted above are dense, crystalline in texture, hence are more or less nonporous. Such limestones, therefore, cannot be relied upon for ground-water supplies.

2. The best aquifers lie below the total depth penetrated by this well and are of Late Cretaceous age. The water-bearing sands enumerated above are thought to be satisfactory for domestic needs only.

**EMANUEL COUNTY**

Location: Approximately 12 mi. northeast of Swainsboro, west side of Highway 56, at school house  
 Owner: No. 1 Summertown Consolidated School  
 Driller: Virginia Supply and Well Company  
 Drilled: 1954

Well No.: GGS 372  
 Elev.: 255

Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Clay: bluish-gray to tan to red (mottled), blocky, very sandy.....	25	25
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	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Marl: light-gray to pale-green, blocky, silty, fossiliferous (some Foraminifera); limestone, light-gray to white, dense, saccharoidal, sandy, coarsely but sparsely glauconitic, fossiliferous (fragments, casts and molds of macroshells, echinoid and bryozoan remains) .....	15	40
<i>Textularia conica</i> , <i>Spiroplectammia mississippiensis</i> , <i>Discorbis assulata</i> , <i>Reussella</i> sp., <i>Elphidium texanum</i> , <i>Valvulineria jacksonensis</i> , <i>Rotalia</i> sp., <i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Alabamina mississippiensis</i> , <i>Cibicides americanus</i> var., <i>Cibicides mississippiensis</i> , <i>Cibicides</i> cf. <i>C. refulgens</i> at 25-40.		
Limestone: white to cream, rather dense, saccharoidal, porous <sup>1</sup> , sandy, sparsely phosphatic, fossiliferous (fragments, casts and molds of macroshells, some echinoid and bryozoan remains, and Foraminifera) .....	185	225
<i>Asterigerina subacuta</i> , <i>Rotalia byramensis</i> var., <i>Discorbis hemisphaerica</i> , <i>Reussella</i> cf. <i>R. oligocena</i> at 40-75.		

**Upper Eocene: Barnwell Formation:**

Marl: light-gray, somewhat indurated, sparsely glauconitic, sandier with depth, fossiliferous (Foraminifera and Ostracods); interbedded limestone, as above .....	145	370
<i>Textularia hockleyensis</i> , <i>Textularia dibollensis</i> var., <i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Valvulineria jacksonensis</i> , <i>Discorbis assulata</i> , <i>Angulogerina ocalana</i> , <i>Cibicides americanus</i> , <i>Cibicides mississippiensis</i> , <i>Cibicides</i> cf. <i>C. cocoaensis</i> , <i>Cibicides lobatulus</i> at 225-275.		
<i>Discorbis assulata</i> , <i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Valvulineria jacksonensis</i> prominent at 275-350.		
<i>Discorbis cocoaensis</i> , <i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Reussella eocena</i> prominent at 350-370.		

**Summary:**

Miocene (undifferentiated) .....	25	25
Oligocene (undifferentiated) .....	200	225
Upper Eocene (Barnwell formation) .....	145	370

**Potential Water-Bearing Zones:**

Limestone .....	185	225
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<sup>1</sup>Cavities represent former macroshells that have been dissolved away by percolating ground water.

## EMANUEL COUNTY

Location: Approximately 8 mi. south of Swainsboro at Well No.: GGS 373  
 Lexsy Elev.: 245  
 Owner: No. 1 Lexsy Consolidated School  
 Driller: Virginia Supply and Well Company  
 Drilled: 1954

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: bluish-gray to tan to red (mottled), very sandy .....	70	70
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, saccharoidal, finely disseminated black phosphatic grains, cherty, very sandy .....	80	150
Marl: dark-green, blocky, fossiliferous (some Ostracods and Foraminifera); limestone as above .....	15	165
<i>Spiroplectammina mississippiensis</i> , <i>Quinqueloculina</i> sp., <i>Reussella oligocenica</i> , <i>Rotalia mexicana</i> var., <i>Asterigerina subacuta</i> , <i>Nonion advena</i> , <i>Cibicides americanus</i> var., <i>Cibicides lobatulus</i> at 150-165.		
Sand: fine to coarse-grained, subangular; clay, yellowish-green, silty .....	15	180
Limestone: white to cream, nodular, saccharoidal, very sandy, fossiliferous (some macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	70	250
<i>Rotalia mexicana</i> var. at 180-250.		
Sand: medium-grained, subangular, light-brown phosphatic pebbles; some marl, cream, silty, somewhat granular, fossiliferous (some macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	20	270
<i>Discorbis alveata</i> , <i>Discorbis assulata</i> , <i>Discorbis cocoaensis</i> , <i>Cancris sagra</i> , <i>Valvulineria jacksonensis</i> , <i>Reussella byramensis</i> , <i>Nonion advena</i> , <i>Nonionella hantkeni</i> var., <i>Cibicides americanus</i> var., <i>Cibicides lobatulus</i> , <i>Rotalia mexicana</i> var. at 250-270.		

**Summary:**

Miocene (undifferentiated) .....	70	70
Oligocene (undifferentiated) .....	200	270

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	70	250
Sand .....	15	265

**EMANUEL COUNTY**

Location: Approximately 1 mi. west of Garfield  
 Owner: No. 1 Theodore Johnson  
 Driller: Turner Well Drilling Company  
 Drilled: 1959

Well No.: GGS 567  
 Elev.: 255

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: light-gray to purple (mottled), very sandy, micaceous.....	20	20
Sand: fine to coarse-grained, subangular, arkosic .....	20	40
Clay: yellowish-green, sandy, micaceous, carbonaceous, kaolin inclusions .....	20	60
Clay: as above, but much sandier .....	20	80
Sand: fine to coarse-grained, subangular, arkosic; some clay, dark-green, sandy, micaceous, carbonaceous .....	20	100
Clay: dark-green, sandy, carbonaceous .....	80	180
Clay: as above but much sandier and cherty .....	20	200
Clay: as above; limestone, light-brown, somewhat dolomitized, saccharoidal, sandy, phosphatic .....	30	230

**Oligocene (Undifferentiated):**

Limestone: light-brown, dense, saccharoidal, somewhat sandy, fossiliferous (some macroshells, echinoid and bryozoan re- mains, and Foraminifera) .....	50	280
<i>Elphidium texanum</i> , <i>Cibicides americanus</i> var., <i>Cibicides</i> <i>pseudoungerianus</i> , <i>Cibicides lobatulus</i> at 230-250.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream to light-gray at depth, dense, granular, sandy, somewhat fossiliferous (some macroshells, echinoid and bryozoan remains) .....	70	350
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	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Miocene (undifferentiated) .....	230	230
Oligocene (undifferentiated) .....	50	280
Upper Eocene (Ocala limestone) .....	70	350

**Potential Water-Bearing Zones:**

Sandstone .....	20	40
Limestone .....	70	350

**EMANUEL COUNTY**

Location: Approximately 4 mi. west of Garfield  
 Owner: No. 1 O. O. Brown  
 Driller: Turner Well Drilling Company  
 Drilled: 1959

Well No.: GGS 568  
 Elev.: 335

	Thickness (feet)	Depth (feet)
No samples .....	200	200

**In Miocene (Undifferentiated):**

Sand: fine to coarse-grained, subangular, arkosic; some clay, dark-green, sandy .....	20	220
Clay: dark-gray, sandy; limestone, white to cream, dense, saccharoidal, very sandy, phosphatic, somewhat fossiliferous (some macroshells, echinoid and bryozoan remains) .....	15	235

**Oligocene (Undifferentiated):**

Marl: white to pale-yellowish-green, blocky, fossiliferous (some macroshells, echinoid and bryozoan remains, and Foraminifera) .....	10	245
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*Eponides byramensis*, *Baggina xenoula*, *Eponides alabamensis*, *Asterigerina subacuta*, *Discorbis assulata*, *Reussella oligocenica*, *Reussella byramensis*, *Discorbis hemisphaerica*, *Angulogerina byramensis*, *Cibicides americanus* var., *Rotalia byramensis* var., *Cibicides lobatulus*, *Cibicides hazzardi*, *Anomalina bilateralis* at 235-245.

Clay: light-brown to yellowish-green, blocky; some marl (cave?), as above .....	20	265
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	Thickness (feet)	Depth (feet)
Limestone: white, dense, somewhat crystalline and saccharoidal, cherty, fossiliferous (fragments of macroshells, echinoid and bryozoan remains) .....	15	280
Limestone: white, nodular, dense, fossiliferous (macroshells)....	20	300
Limestone: as above, but considerably leached, much of it weathered to white clay .....	20	320

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, granular, very sandy, coarsely glauconitic, fossiliferous (macroshells, echinoid and bryozoan remains, and some Foraminifera) .....	30	350
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*Spiroplectammina mississippiensis* var., *Textularia* sp., *Robulus alato-limbatus*, *Robulus limbosus* var., *Nodosaria latejugata* var., *Dentalina jacksonensis*, *Guttulina irregularis*, *Guttulina spicaeformis*, *Spirillina* sp., *Planularia* sp., *Gyroidina?* sp., *Eponides jacksonensis*, *Siphonina jacksonensis*, *Cibicides americanus* var., *Cibicides ouachitaensis* at 320-348.

**Summary:**

No samples .....	200	200
In Miocene (undifferentiated) .....	35	235
Oligocene (undifferentiated) .....	85	320
Upper Eocene (Ocala limestone) .....	30	350

**Potential Water-Bearing Zones:**

Limestone .....	30	350
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**GLYNN COUNTY**

Location: City of Brunswick  
 Owner: Hercules Powder Company  
 Driller: Layne-Atlantic Company  
 Drilled: July 1942

Well No.: GGS 5  
 Elev.: 10

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: fine to coarse-grained, phosphatic .....	165	165
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	Thickness (feet)	Depth (feet)
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, cherty, phosphatic; interbedded sand, fine to coarse-grained, phosphatic .....	125	290
Dolomitic limestone: light brown, saccharoidal, sandy, phosphatic .....	15	305
Sand: fine to coarse-grained; interbedded limestone, white, sandy, phosphatic, fossiliferous (macroshells); dolomitic limestone and clay, as above .....	100	405
Limestone: white, very sandy, phosphatic, fossiliferous (macroshells) .....	135	540
No samples .....	20	560

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: light-gray to white, massive, dense (much calcitized), fossiliferous (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	440	1,000
Abundant bryozoan remains, <i>Gyroidina</i> sp., <i>Gypsina</i> sp. at 560.		
<i>Operculinoides</i> sp. at 595.		
<i>Asterocyclina nassauensis</i> , <i>Operculinoides floridensis</i> at 610.		
<i>Amphistegina pinarensis</i> var. at 695-1063.		

**Middle Eocene: Claiborne Group (Undifferentiated):**

Dolomitic limestone: brown, saccharoidal .....	60	1,060
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**Summary:**

Pliocene to Recent (undifferentiated) .....	165	165
In Miocene (undifferentiated) .....	375	540
No samples .....	20	560
In upper Eocene (Ocala limestone) .....	440	1,000
Middle Eocene (Claiborne group, undifferentiated) .....	60	1,060

**Potential Water-Bearing Zones:**

Limestone .....	285	845
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## GLYNN COUNTY

Location: Naval Air Station, St. Simons Island  
 Owner: No. 1 Naval Air Station (U.S. Govt.)  
 Driller: Layne-Atlantic Company  
 Drilled: September 1942

Well No.: GGS 20  
 Elev.: 18

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, phosphatic; interbedded clay, dark-gray, silty, micaceous .....	155	155
<b>In Miocene (Undifferentiated):</b>		
Clay: green, silty, finely phosphatic .....	90	245
No samples .....	75	320
Sand: fine to coarse-grained, abundantly phosphatic; some clay, as above .....	85	405
Dolomitic limestone ("cave"?) at 395-405.		
Sand: fine to coarse-grained, abundantly phosphatic; inter- bedded limestone, white, sandy, fossiliferous (macroshells)....	130	535
<b>Oligocene (Undifferentiated):</b>		
Limestone: gray, nodular, somewhat calcitized, fossiliferous.....	15	550
<i>Rotalia byramensis</i> var. at 535-550.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, calcitized, fossiliferous (abundant bryo- zoan remains and some Foraminifera) .....	144	694
<i>Operculinoides floridensis</i> at 550-610.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	155	155
In Miocene (undifferentiated) .....	380	535
Oligocene (undifferentiated) .....	15	550
Upper Eocene (Ocala limestone) .....	144	694
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained .....	50	455
Limestone .....	159	694

## GLYNN COUNTY

Location: City of Brunswick  
 Owner: Hercules Powder Company  
 Driller: Layne-Atlantic Company  
 Drilled: February 1951

Well No.: GGS 197  
 Elev.: 15<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, nearly gravel at depth .....	150	150
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, silty, cherty, phosphatic; interbedded sand, fine to coarse-grained, phosphatic .....	155	305
Dolomitic limestone: light-brown, saccharoidal, sandy, phos- phatic, fossiliferous (abundant oyster shells) .....	63	368
Sand: fine to coarse-grained, abundantly phosphatic; inter- bedded clay, dark-green, silty, phosphatic .....	26	394
Sand: fine to coarse-grained, abundantly phosphatic; inter- bedded limestone, white, sandy, fossiliferous (macroshells)....	70	464
Limestone: gray to light-brown, somewhat dolomitic, dense (much calcitized), sandy, phosphatic, fossiliferous (frag- ments and molds of macroshells) .....	60	524
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, dense (much calcitized), nodular, fos- siliferous (bryozoan remains, macroshells, and some Fora- minifera) .....	31	555
<i>Pyrgo</i> sp., <i>Gyroidina</i> ? sp., <i>Asterocyclina</i> sp. at 524-555.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, much calcitized, fossiliferous (abundant macroshells and bryozoan remains, and some Foraminifera)..	303	858
<i>Operculinoides floridensis</i> , <i>Pseudophragmina flintensis</i> at 555.		
Dolomitic limestone: brown, saccharoidal .....	157	1,015

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	150	150
Miocene (undifferentiated) .....	374	524
Oligocene (undifferentiated) .....	31	555
Upper Eocene (Ocala limestone) .....	460	1,015

**Potential Water-Bearing Zones:**

Limestone .....	334	858
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**Remarks:**

Samples of poor quality.

**GLYNN COUNTY**

Location: 5 mi. southwest of Brunswick  
 Owner: No. 1 Roy Massey  
 Driller: E. B. LaRue Drilling Company

Well No.: GGS 362  
 Elev.: 20  
 (derrick floor)

Thickness  
(feet)      Depth  
(feet)

**Pliocene to Recent (Undifferentiated):**

Sand: fine-grained, finely disseminated phosphatic grains; interbedded clay, dark-gray, lignitic, micaceous, fossiliferous (megafossils at certain horizons) .....	40	40
Limestone: gray to light-brown, dense (much calcitized), saccharoidal, sparsely phosphatic, fossiliferous (casts of megafossils) .....	20	60
Sand: fine to coarse-grained, rounded, phosphatic .....	120	180

**Miocene (Undifferentiated):**

Clay: dark-green, silty, phosphatic, cherty; interbedded sand, fine to coarse-grained, phosphatic .....	120	300
Dolomitic limestone: light-brown, sandy, phosphatic; sand, fine to coarse-grained, phosphatic .....	60	360
Same lithology as above but with increasing amounts of dark-green sandy clay .....	40	400
Sand: fine to coarse-grained, phosphatic; interbedded limestone, white, sandy, fossiliferous (macroshells); some clay, as above .....	180	580

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, somewhat granular (calcitized), fossiliferous	20	600
<i>Rotalia byramensis</i> var. at 580-600.		

**Upper Eocene: Jackskon Group: Ocala Limestone:**

Limestone: rather dense (calcitized), fossiliferous (bryozoan remains, macroshells, and Foraminifera)	400	1,000
<i>Operculinoides floridensis</i> at 600-620.		
<i>Gypsina globula</i> at 660-680.		
<i>Pseudophragmina flintensis</i> at 700-720.		
<i>Amphistegina pinarensis</i> var. at 920-940.		

**Middle Eocene: Claiborne Group (Undifferentiated):**

Limestone: white, rather calcitized; interbedded dolomitic limestone, brown, saccharoidal	400	1,400
<i>Lepidocyclina (Polylepidina) antillea</i> , <i>Asterocyclina monticellensis</i> at 1000-1020.		

**Summary:**

Pliocene to Recent (undifferentiated)	180	180
Miocene (undifferentiated)	400	580
Oligocene (undifferentiated)	20	600
Upper Eocene (Ocala limestone)	400	1,000
Middle Eocene (Claiborne group, undifferentiated)	400	1,400

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained	120	180
Sand: fine to coarse-grained	150	570
Limestone	400	1,000

## GLYNN COUNTY

Location: 0.25 mi. north of Glynn-Camden County line,  
west side of Highway 17  
Owner: No. 1 C. E. P. Curry  
Driller: E. B. LaRue Drilling Company  
Drilled: 1955

Well No.: GGS 376  
Elev.: 20  
(derrick floor)

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, phosphatic, finely disseminated phosphatic grains; interbedded with thin stringers of clay, dark-brown, fissile, silty, lignitic, micaceous, fossiliferous.....	20	20
Indurated sand: fine to medium-grained, fossiliferous.....	15	35
Limestone: light-gray, dense (much calcitized), sandy, sparsely phosphatic, fossiliferous (casts and impressions of megafossils) .....	65	100
Clay: dark-gray, silty.....	10	110
Sand: very coarse-grained, rounded, phosphatic .....	40	150
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic, cherty (at certain horizons); interbedded with sand, fine to coarse-grained, phosphatic .....	190	340
Dolomitic limestone: light-brown, saccharoidal, sandy, coarsely phosphatic; some clay as above.....	60	400
Clay: dark-green, silty; with sand, fine to coarse-grained, phosphatic .....	40	440
Sand: fine to coarse-grained, phosphatic; interbedded limestone, dense (calcitized), sandy, phosphatic, fossiliferous (molds, impressions, and fragments of megafossils).....	140	580
<b>Oligocene (Undifferentiated):</b>		
Lithology as in interval 440-580; fragments of limestone, light-gray, dense (calcitized), nodular, fossiliferous (Foraminifera scarce) .....	20	600
<i>Rotalia byramensis</i> var. at 580-600.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: dense (calcitized), fossiliferous, dolomitized at depth .....	310	910
Bryozoan remains and macroshells at 600-620.		
<i>Operculinoides</i> sp., <i>Gypsina globula</i> at 620-640.		
<i>Pseudophragmina flintensis</i> at 640-660.		
Dolomitic limestone: brown, saccharoidal.....	70	980

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Dolomitic limestone: brown, saccharoidal; interbedded limestone, white, fossiliferous.....	370	1,350

**Summary:**

Pliocene to Recent (undifferentiated).....	150	150
Miocene (undifferentiated) .....	430	580
Oligocene (undifferentiated) .....	20	600
Upper Eocene (Ocala limestone).....	380	980
Middle Eocene (Claiborne group, undifferentiated).....	370	1,350

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	40	150
Sand: fine to coarse-grained.....	60	600
Limestone .....	300	900

**GLYNN COUNTY**

Location: Jekyll Island  
 Owner: No. 1 Jekyll Island (State of Georgia)  
 Driller: M. M. Gray  
 Drilled: 1955

Well No.: GGS 431  
 Elev.: 12<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, phosphatic (finely disseminated).....	25	25
Clay: dark-gray, silty, sparsely phosphatic, micaceous, fossiliferous; sand, as above.....	80	105
<b>Miocene (Undifferentiated):</b>		
Sand: fine to medium-grained, phosphatic.....	20	125
Clay: dark-green, sandy, phosphatic, cherty; interbedded with sand, fine to coarse-grained, phosphatic.....	160	285
Sand: fine to coarse-grained, abundantly phosphatic; interbedded limestone, white, sandy, phosphatic, fossiliferous; dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic; and clay, as above.....	280	565

Dolomitic limestone prominent at 285-295.

Macroshells common at 435-475.

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, nodular, much calcitized, fossiliferous (macroshells, bryozoan remains, and some Foraminifera).....	10	575
<i>Rotalia mexicana</i> var., <i>Argyrotheca</i> sp., <i>Operculinooides</i> <sup>2</sup> sp., and macroshells common at 575-585.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white, rather dense (calcitized), fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera) .....	131	706
<i>Operculinooides</i> sp. at 575-585.		
<i>Gypsina globula</i> at 635-645.		

**Summary:**

Pliocene to Recent (undifferentiated).....	105	105
Miocene (undifferentiated) .....	460	565
Oligocene (undifferentiated) .....	10	575
Upper Eocene (Ocala limestone).....	131	706

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	20	175
Sand: fine to coarse-grained.....	50	495
Limestone .....	131	706

**GLYNN COUNTY**

Location: Jekyll Island	Well No.: GGS 452
Owner: No. 2 Jekyll Island (State of Georgia)	Elev.: 12 <sup>1</sup>
Driller: M. M. Gray	
Drilled: 1955	

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, finely disseminated phosphatic grains; interbedded clay, dark-gray, silty, lignitic, micaceous, fossiliferous .....	50	50
Sand: fine to coarse-grained, rounded, phosphatic; limestone, dark-gray, dense (much calcitized), sandy, sparsely phosphatic .....	10	60
Clay: yellowish-green to cream, very sandy.....	45	105

<sup>1</sup>Average elevation based on Georgia State Highway Maps.<sup>2</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, blocky, phosphatic, cherty at certain levels; interbedded sand, fine to coarse-grained, phosphatic ..	145	250
Sand: fine to coarse-grained, phosphatic; interbedded limestone, white, sandy, phosphatic, fossiliferous; dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic; clay, dark-green, silty.....	300	550
Dolomitic limestone common at 250-260.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: light-gray, dense (calcitized), fossiliferous (macroshells, bryozoan remains, and Foraminifera).....	150	700
<i>Operculinoides floridensis</i> at 550-560.		

**Summary:**

Pliocene to Recent (undifferentiated).....	105	105
Miocene (undifferentiated) .....	445	550
Upper Eocene (Ocala limestone).....	150	700

• **Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	10	60
Sand: fine to coarse-grained.....	50	400
Limestone .....	150	700

**GLYNN COUNTY**

Location: Brunswick Well No.: GGS 530  
 Owner: Allied Chemical Company, Solvay Process Division Elev.: 15<sup>1</sup>  
 Driller: Layne-Atlantic Company  
 Drilled: 1955

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, finely disseminated phosphatic grains; interbedded clay, dark-gray, fissile, lignitic, micaceous, fossiliferous at certain levels.....	65	65
Limestone: dark-gray, dense (much calcitized), sandy, phosphatic, fossiliferous .....	15	80
Clay: gray, somewhat indurated, sandy, containing coarse grains of quartz.....	15	95
Sand: medium to very coarse-grained, rounded, phosphatic.....	55	150

<sup>1</sup>Average elevation based on Georgia State Highway Maps.



	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic, cherty; interbedded limestone, gray, dense (much calcitized), sandy, fossiliferous; sand, fine to coarse-grained, phosphatic.....	115	265
Dolomitic limestone: light-brown, fine-grained, saccharoidal; clay, pale-green, sandy; limestone, white, dense (calcitized), very sandy, coarsely phosphatic, fossiliferous.....	235	500
Limestone, white, sandy, fossiliferous (a coquina) at 265-280.		
Indurated sand (or dolomitic limestone), light-brown, fine-grained, saccharoidal, phosphatic, at 280-310.		
Clay, pale-green, sandy, with interbedded dolomitic limestone at 310-370.		
Limestone, white, dense (much calcitized), very sandy, coarsely phosphatic, fossiliferous at 390-500.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, massive, much calcitized, fossiliferous (macroshells, bryozoan remains, and Foraminifera).....	300	800
<i>Operculinoides</i> sp. at 500-510.		
<i>Asterocyclina</i> sp. at 520-530.		
<i>Asterocyclina nassauensis</i> , <i>Gypsina globula</i> at 530-540.		
<i>Pseudophragmina flintensis</i> at 590-600.		
<i>Operculina mariannensis</i> at 610-620.		

**Summary:**

Pliocene to Recent (undifferentiated).....	150	150
Miocene (undifferentiated).....	350	500
Upper Eocene (Ocala limestone).....	300	800

**Potential Water-Bearing Zones:**

Sand: coarse-grained.....	55	150
Limestone.....	300	800

## GRADY COUNTY

Location: Northern part of town, 2 blocks west of Broad Street (Highway 84) in Cairo  
 Well No.: GGS 140  
 Elev.: 265  
 Owner: No. 1 ("North Well") City of Cairo  
 Driller: Layne-Atlantic Company  
 Drilled: 1946

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, micaceous, phosphatic (finely disseminated) .....	51	51
<b>Miocene (Undifferentiated):</b>		
Clay: pale-green, sandy; sand, medium-grained, angular.....	106	157
Clay: yellowish-green, sandy, somewhat indurated and tough at depth; interbedded limestone, light-gray to cream, sandy....	128	285
Limestone: cream, much calcitized, somewhat saccharoidal, sandy, fossiliferous (casts and molds of megafossils, rare Ostracods and Foraminifera).....	83	368
<i>Archaias</i> sp. at 362-368.		
<b>In Oligocene(?) (Undifferentiated):</b>		
Limestone: cream, nodular, somewhat sandy, fossiliferous (megafossils and Foraminifera <sup>1</sup> ).....	71	439
<b>Upper Eocene(?): Jackson Group: Ocala Limestone:</b>		
Dolomitic limestone: gray to brown at depth, saccharoidal.....	56	495
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	51	51
Miocene (undifferentiated) .....	317	368
In Oligocene(?) (undifferentiated).....	71	439
Upper Eocene(?) Ocala limestone .....	56	495
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	139	439

<sup>1</sup>So poorly preserved as to be unidentifiable.

## GRADY COUNTY

Location: Southern part of town, west side of Broad Street, in Cairo Well No.: GGS 141  
 Elev.: 234  
 Owner: No. 2 ("South Well") City of Cairo  
 Driller: Layne-Atlantic Company  
 Drilled: 1946

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: bluish-gray to pink (mottled), sandy, limonitic .....	4	9
Clay: tan to bluish-gray (mottled), sandy, limonitic .....	6	15
Sand: fine-grained, micaceous, phosphatic (finely disseminated) .....	18	33
Lignite: black; and clay, gray, blocky, sandy .....	16	49
<b>Miocene and Oligocene (Undifferentiated):</b>		
Sand: medium-grained, angular, arkosic; and clay, as above .....	14	63
No samples .....	21	84
Clay: yellowish-green to red (mottled), sandy; interbedded limestone, cream to gray to light-brown, somewhat dolomitized and saccharoidal at certain levels, sandy, fossiliferous at depth (casts and molds of megafossils) .....	318	402
Limestone with casts and molds of megafossils prominent at 323-370.		
<b>Upper Eocene(?): Jackson Group: Ocala Limestone:</b>		
Dolomitic limestone: brown, saccharoidal .....	32	434
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	49	49
Miocene and Oligocene (undifferentiated) .....	353	402
Upper Eocene(?) (Ocala limestone) .....	32	434
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	47	370
Limestone .....	32	434

**Remarks:**

Samples appear to be of poor quality.

## GRADY COUNTY

Location: Center of town, south side of Atlantic Coast Line R.R., west side of City Water Works in Cairo  
 Well No.: GGS 205  
 Elev.: 240  
 Owner: City of Cairo  
 Driller: Layne-Atlantic Company  
 Drilled: May 1950

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: bluish-gray to tan to red (mottled), very sandy, limonitic	15	15
Sand: fine-grained, somewhat argillaceous, finely disseminated phosphate grains	15	30
<b>Miocene (Undifferentiated):</b>		
Clay: white to pale-green, blocky, tough, sandy, cherty at depth; interbedded sand, fine to coarse-grained, angular, phosphatic at depth	82	112
Chert prominent at 81-96.		
Brown phosphatic pebbles common at 96-112.		
Limestone: white, sandy, somewhat dolomitized at certain levels; interbedded clay, as above	182	294
Limestone: gray, nodular, rather massive, fossiliferous (casts and molds of megafossils and rare Foraminifera)	61	355
<i>Archaias</i> sp. at 309-325.		
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, sandy, somewhat dolomitized at depth, fossiliferous (casts and molds of megafossils); beds of clay, dark-green, somewhat indurated, tough	122	477
<b>In upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-brown, dense, nodular, somewhat dolomitized, fossiliferous (echinoid and bryozoan remains and Foraminifera)	47	524
<i>Robulus</i> sp., <i>Quinqueloculina</i> sp., <i>Gypsina globula</i> at 494-509.		
Dolomitic limestone: brown, saccharoidal	63	587
<b>Summary:</b>		
Pliocene to Recent (undifferentiated)	30	30
Miocene (undifferentiated)	325	355
Oligocene (undifferentiated)	122	477
In upper Eocene (Ocala limestone)	110	587

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	130	500

**Remarks:**

Water below depth of 500 not suitable because of excessive mineralization.

**GRADY COUNTY**

Location: .7 mi. north of Cairo  
 Owner: No. 1 Shiver Elementary School  
 Drilled: 1956

Well No.: GGS 493

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: brick-red, mottled at depth, sandy, micaceous, limonitic .....	90	90
Clay: yellowish-green, sandy.....	40	130
Sand: fine-grained, angular.....	20	150
Limestone: white to brown, dolomitized at certain levels, sandy..	120	270
Clay: dark-green, sandy .....	40	310
Limestone: as above.....	10	320
No samples .....	20	340

**In Oligocene and Upper Eocene (Undifferentiated):**

Limestone: cream, somewhat crystalline and calcitized, nodular, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	40	380
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*Rotalia mexicana* var. at 340.

No samples .....	20	400
Dolomitic limestone: brown, saccharoidal.....	?	400
No samples .....	20	420
Limestone: brown to cream, nodular, fossiliferous (Foraminifera); dolomitic limestone, as above.....	120	540

*Asterigerina subacuta* at 420.

*Operculinoides* sp., *Lepidocyclina* sp. at 460.

*Operculinoides* sp., *Lepidocyclina* sp. at 540.

	Thickness (feet)	Depth (feet)
No samples .....	10	550
Dolomitic limestone: as above.....	?	550

**Summary:**

Miocene (undifferentiated) .....	320	320
No samples .....	20	340
In Oligocene and upper Eocene (undifferentiated).....	210	550

**Potential Water-Bearing Zones:**

Limestone .....	40	380
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**Remarks:**

Samples of poor quality—too poor to permit selection of top of upper Eocene (Ocala) limestone.

**GRADY COUNTY**

Location: 14 mi. south of Cairo  
 Owner: No. 1 Beckbranch School  
 Drilled: 1956

Well No.: GGS 494

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: yellow (or ochre), sandy, limonitic.....	60	60
No samples .....	20	80
<b>In Miocene (Undifferentiated):</b>		
Clay: pale-green, somewhat fossiliferous.....	?	80
No samples .....	20	100
Limestone: cream, sandy.....	?	100
No samples .....	20	120
Clay: light to dark-green, phosphatic; interbedded with limestone, cream to light-gray to light-brown, somewhat dolomitized and saccharoidal at certain levels, sandy.....	160	280
No samples .....	20	300
Clay: light-gray, blocky; interbedded with limestone, as above....	80	380

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	60	60
No samples .....	20	80
In Miocene (undifferentiated).....	300	380

**Potential Water-Bearing Zones:**

None observed to total depth of well.

**HOUSTON COUNTY**

Location: Approximately 75 ft. east of Big Indian Creek, Well No.: GGS 53  
 at City Water Works, Perry Elev.: 295  
 Owner: City of Perry  
 Driller: Layne-Atlantic Company  
 Drilled: 1939

	Thickness (feet)	Depth (feet)
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**Middle and Lower Eocene and Paleocene (Undifferentiated):**

Sand: fine to medium-grained, limonitic; and clay, gray, sandy.....	78	78
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**Upper Cretaceous: Providence Sand:**

Kaolin: gray to red (mottled), sandy, micaceous; interbedded sand, fine to coarse-grained, arkosic, limonitic.....	122	200
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**Ripley, Cusseta and Blufftown (Undifferentiated):**

Clay: dark-gray, silty, micaceous, pyritiferous.....	75	275
Sand: fine to coarse-grained, arkosic; interbedded clay (or kaolin), gray to red (mottled), micaceous, sandy.....	480	755
No samples .....	165	920

**In Tuscaloosa Formation:**

Clay: gray to purple (mottled), micaceous, sandy; numerous beds of sand, fine to coarse-grained, angular, arkosic, limonitic .....	340	1,260
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**Summary:**

Middle and lower Eocene and Paleocene (undifferentiated).....	78	78
Upper Cretaceous (Providence sand).....	122	200
Upper Cretaceous (Ripley, Cusseta and Blufftown, undifferentiated) .....	555	755
No samples .....	165	920
In Upper Cretaceous (Tuscaloosa formation).....	340	1,260

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: coarse-grained .....	6	92
Sand: coarse-grained .....	15	200
Sand: coarse-grained .....	19	319
Sand: coarse-grained .....	4	371
Sand: coarse-grained .....	20	676
Sand: coarse-grained .....	11	715
Sand: coarse-grained .....	5	975
Sand: coarse-grained .....	20	1,220

**HOUSTON COUNTY**

Location: Southeast corner of Land Lot 266, 14th Land District  
 Well No.: GGS 194  
 Elev.: 364

Owner: No. 1 H. B. Gilbert  
 Driller: Tricon Minerals, Inc.  
 Drilled: September 1949

	Thickness (feet)	Depth (feet)
<b>Oligocene and Eocene (Undifferentiated):</b>		
Clay: yellowish-green to red (mottled), blocky, carbonaceous, somewhat sandy; and limestone, cream colored, cherty, fossiliferous (bryozoan remains) .....	30	30
Limestone: as above .....	38	68
Sand: fine to medium-grained, angular .....	21	89
Clay: dark-green to tan to red (mottled), sandy; limestone, as above; and sand, fine to medium grained .....	30	119
Sand: fine to medium-grained .....	31	150
No samples .....	40	190
<b>In Paleocene: Midway Group: Clayton Formation:</b>		
Clay: dark-brown, blocky, lignitic; and sand, fine to coarse-grained, pyritiferous .....	15	205
<b>Upper Cretaceous: Providence Sand:</b>		
Sand: fine to coarse, angular, arkosic, pyritiferous; and thin beds of clay (or kaolin), mottled, sandy, micaceous .....	180	385
<b>Ripley and Cusseta (Undifferentiated):</b>		
Clay: bluish-gray to black, carbonaceous, micaceous, sideritic, pyritiferous; some sand, fine to coarse-grained, arkosic, pyritiferous .....	95	480



	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, arkosic, pyritiferous; and thin beds of clay (or kaolin), gray to red (mottled), micaceous, sandy .....	340	820
<b>Blufftown and Eutaw (Undifferentiated):</b>		
Sand: fine to coarse-grained, arkosic; and thin beds of clay, dark-brown, fissile, lignitic, micaceous, somewhat sandy .....	90	910
<b>Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, massive, arkosic, pyritiferous; interbedded clay (or kaolin), white to gray (mottled), micaceous, sandy .....	285	1,195
Sand: as above; interbedded clay, green to red (somewhat mottled), iron-stained, somewhat fissile, micaceous, sandy .....	265	1,460
Sand: coarse-grained, arkosic, massive .....	95	1,555
<b>Lower Cretaceous(?) (Undifferentiated):</b>		
Clay: brick-red, sandy, highly micaceous .....	130	1,685
<b>Basement Complex (Undifferentiated):</b>		
Crystalline rock .....	13	1,698

#### Summary:

Oligocene and Eocene (undifferentiated) .....	150	150
No samples .....	40	190
In Paleocene (Clayton formation) .....	15	205
Upper Cretaceous (Providence sand) .....	180	385
Upper Cretaceous (Ripley and Cusseta, undifferentiated) .....	435	820
Upper Cretaceous (Blufftown and Eutaw, undifferentiated) .....	90	910
Upper Cretaceous (Tuscaloosa formation) .....	645	1,555
Lower Cretaceous(?) (undifferentiated) .....	130	1,685
Basement complex (undifferentiated) .....	13	1,698

#### Potential Water-Bearing Zones:

Sand: fine to coarse-grained .....	21	89
Sand: fine to coarse-grained .....	31	150
Sand: fine to coarse-grained .....	30	270
Sand: fine to coarse-grained .....	60	385
Sand: fine to coarse-grained .....	125	675
Sand: fine to coarse-grained .....	125	960
Sand: fine to coarse-grained .....	205	1,195
Sand: fine to coarse-grained .....	95	1,555

## HOUSTON COUNTY

Location: Approximately 2 blocks west of New Perry Well No.: GGS 318  
 Hotel, ½ block east of City Water Works, opposite Elev.: 318  
 cemetery in Perry  
 Owner: City of Perry  
 Driller: Layne-Atlantic Company  
 Drilled: September 1952

	Thickness (feet)	Depth (feet)
<b>Middle and Lower Eocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, limonitic; interbedded clay, gray, lignitic, micaceous .....	90	90
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay; dark-gray, hackly, lignitic .....	6	96
<b>Upper Cretaceous: Providence Sand:</b>		
Clay (or kaolin): white to pink (mottled), micaceous, somewhat sandy; interbedded sand, fine to coarse-grained, arkosic, pyritiferous, sideritic .....	47	143
Sand: fine to coarse-grained, arkosic, pyritiferous, sideritic; interbedded clay (or kaolin), gray to red (mottled), sandy, micaceous .....	73	216
<b>Ripley and Cusseta (Undifferentiated):</b>		
Marl: bluish-gray, lignitic, micaceous, sandy, sideritic, pyritiferous .....	29	245
Sand: fine to coarse-grained, rather massive, angular, arkosic; interbedded clay (or kaolin), gray, micaceous, sandy .....	245	490
<b>Blufftown Formation:</b>		
Clay: dark-brown, fissile, lignitic, micaceous, sandy .....	14	504
Sand: fine to coarse-grained, massive, angular, arkosic, micaceous, pyritiferous; interbedded clay, dark-brown, fissile, lignitic, micaceous, sandy .....	120	624
<b>Summary:</b>		
Middle and lower Eocene (undifferentiated) .....	90	90
Paleocene (Clayton formation) .....	6	96
Upper Cretaceous (Providence sand) .....	120	216
Upper Cretaceous (Ripley and Cusseta, undifferentiated) .....	274	490
Upper Cretaceous (Blufftown formation) .....	134	624

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	10	153
Sand: fine to coarse-grained.....	35	215
Sand: fine to coarse-grained.....	52	329
Sand: fine to coarse-grained.....	24	385
Sand: fine to coarse-grained.....	64	471
Sand: fine to coarse-grained.....	15	586
Sand: fine to coarse-grained.....	25	624

**HOUSTON COUNTY**

Location: Southwest part of City of Warner Robins  
 Owner: No. 1 City of Warner Robins  
 Driller: Layne-Atlantic Company  
 Drilled: January 1954

Well No.: GGS 370  
 Elev.: 239

	Thickness (feet)	Depth (feet)
<b>Tertiary (Undifferentiated):</b>		
Clay: brick-red, very sandy, limonitic.....	20	20
<b>Upper Cretaceous: Providence Sand:</b>		
Kaolin: gray to pink (mottled), micaceous, sandy; sand, fine to coarse-grained.....	34	54
Sand: fine to coarse-grained, massive, angular, arkosic.....	56	110
<b>Ripley, Cusseta, Blufftown and Eutaw (Undifferentiated):</b>		
Clay: gray to pink, sandy, micaceous.....	32	142
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, as above.....	68	210
<b>Tuscaloosa Formation:</b>		
Clay: gray, micaceous, sandy.....	8	218
Sand: fine to coarse-grained, massive, angular, arkosic, li- monitic.....	90	308
Sand: as above, but much coarser-grained; interbedded clay, gray to red (mottled), micaceous, sandy.....	92	400

**Summary:**

	Thickness (feet)	Depth (feet)
Tertiary (undifferentiated) .....	20	20
Upper Cretaceous (Providence sand).....	90	110
Upper Cretaceous (Ripley, Cusseta, Blufftown and Eutaw, un- differentiated) .....	100	210
Upper Cretaceous (Tuscaloosa formation).....	190	400

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	10	110
Sand: fine to coarse-grained .....	34	176
Sand: fine to coarse-grained .....	14	206
Sand: fine to coarse-grained .....	18	240
Sand: fine to coarse-grained .....	33	281
Sand: fine to coarse-grained .....	14	302
Sand: fine to coarse-grained .....	40	380

**HOUSTON COUNTY**

Location: Southwest part of City of Warner Robins

Well No.: GGS 374

Owner: No. 2 City of Warner Robins

Elev.: 239

Driller: Layne-Atlantic Company

Drilled: February 1954

Thickness (feet)	Depth (feet)
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**Summary:**

Tertiary (undifferentiated) .....	36	36
Upper Cretaceous (Providence sand).....	69	105
Upper Cretaceous (Ripley, Cusseta, Blufftown and Eutaw, un- differentiated) .....	105	210
Upper Cretaceous (Tuscaloosa formation).....	223	433

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	4	112
Sand: fine to coarse-grained .....	6	130
Sand: fine to coarse-grained .....	6	146
Sand: fine to coarse-grained .....	16	172
Sand: fine to coarse-grained .....	10	194
Sand: fine to coarse-grained .....	58	290
Sand: fine to coarse-grained .....	82	382
Sand: fine to coarse-grained .....	39	433

**Remarks:**

Samples of poor quality, hence formational tops estimated from electric log of the above well.

## HOUSTON COUNTY

Location: At City Water Works, Perry  
 Owner: No. 5 City of Perry  
 Driller: Layne-Atlantic Company  
 Drilled: March 1955

Well No.: GGS 414  
 Elev.: 295

	Thickness (feet)	Depth (feet)
<b>Middle and Lower Eocene (Undifferentiated):</b>		
Sand: fine to medium-grained; and clay, gray.....	7	7
Sand and clay: as above; with considerable amount of clay, dark-gray, micaceous, lignitic.....	13	20
Clay (or kaolin): light-gray to white, sandy.....	22	42
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: dark-gray to black, lignitic, pyritiferous.....	8	50
<b>Upper Cretaceous: Providence Sand:</b>		
Clay (or kaolin): white to red (mottled), sandy, micaceous; interbedded sand, fine to coarse-grained, angular, arkosic, limonitic .....	100	150
Sand: fine to coarse-grained, angular, arkosic, limonitic.....	40	190
<b>Ripley and Cusseta (Undifferentiated):</b>		
Clay: gray, sandy, micaceous, somewhat lignitic, pyritiferous; interbedded sand, fine to coarse-grained, angular, arkosic .....	70	260
Sand: fine to coarse-grained, rather massive (at certain horizons), arkosic; interbedded clay (or kaolin), white to gray to red (mottled), micaceous, sandy.....	228	488
<b>Summary:</b>		
Middle and lower Eocene (undifferentiated).....	42	42
Paleocene (Clayton formation).....	8	50
Upper Cretaceous (Providence sand).....	140	190
Upper Cretaceous (Ripley and Cusseta, undifferentiated).....	298	488
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	26	180
Sand: fine to coarse-grained.....	192	454

## IRWIN COUNTY

Location: At City Water Works, in Ocilla  
 Owner: No. 3 City of Ocilla  
 Driller: Stevens Southern Drilling Company  
 Drilled: March 1952

Well No.: GGS 274  
 Elev.: 330

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic .....	30	30
Clay: yellowish-green, sandy.....	40	70
Sand: fine to coarse-grained, angular, arkosic.....	20	90
Clay: yellowish-green, sandy; interbedded sand, as above; limestone, white, sandy.....	80	170
Sand: fine to coarse-grained, angular.....	60	230
<b>Oligocene (Undifferentiated):</b>		
Limestone: white to light-gray, very dense, highly calcitized, crystalline, cherty, sandy, fossiliferous (bryozoan remains, and Foraminifera) .....	70	300
<i>Rotalia mexicana</i> var. at 230-240.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, much calcitized (more so at depth), crystal- line, fossiliferous (bryozoan remains and Foraminifera at certain levels) .....	200	500
<i>Operculinoides floridensis</i> at 300-310.		
Limestone: as above; interbedded dolomitic limestone, brown, saccharoidal, rather massive.....	130	630
<b>Summary:</b>		
Miocene (undifferentiated) .....	230	230
Oligocene (undifferentiated) .....	70	300
Upper Eocene (Ocala limestone).....	330	630

**Potential Water-Bearing Zones:**

Limestone .....	240	470
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## JEFF DAVIS COUNTY

Location: Hazelhurst, 0.1 mi. north of U.S. Highway  
341, few hundred yd. east of Georgia-Florida R.R.,  
at City Water Works

Well No.: GGS 157  
Elev.: 259

Owner: No. 3 City of Hazelhurst  
Driller: Layne-Atlantic Company  
Drilled: June 1948

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic.....	20	20
Sand: medium-grained, angular, arkosic; and clay, as above.....	35	55
Clay: yellowish-green, sandy, cherty at certain levels; interbedded sand, fine to medium-grained, angular, arkosic, phosphatic (at depth).....	305	360
Gray phosphate pebbles at 200-260.		
Clay: light-gray, sandy, phosphatic; interbedded limestone, white, dense, sandy.....	80	440
Limestone: light-gray to white to light-brown, dolomitized at depth, dense, sandy, fossiliferous at certain levels.....	117	557
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, nodular, dense, crystalline, sandy, somewhat fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera).....	10	567
<i>Elphidium</i> sp., <i>Rotalia mexicana</i> var., <i>Asterigerina subacuta</i> , <i>Quinqueloculina</i> sp. at 557-567.		
Limestone: brown, nodular, rather dense, much calcitized fossiliferous (as above).....	103	670
<i>Coskinolina</i> ? <sup>1</sup> sp. at 567-587.		
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, rather soft, granular (in texture), fossiliferous (echinoid and bryozoan remains and "larger Foraminifera" at certain levels).....	170	840
<i>Lepidocyclina</i> sp. at 760-810.		
<b>Summary:</b>		
Miocene (undifferentiated).....	557	557
Oligocene (undifferentiated).....	113	670
In upper Eocene (Ocala limestone).....	170	840

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	273	840

**Remarks:**

Sample intervals too great to permit accurate determination of formational top of upper Eocene (Ocala limestone).

**JEFFERSON COUNTY**

Location: Few hundred yards west of U.S. Highway 1, south side of Quakel Street, in Wrens  
 Owner: No. 2 U.S. Geological Survey test hole  
 Driller: J. K. Scott Drilling Company  
 Drilled: July 1946

Well No.: GGS 133  
 Elev.: 445

	Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Clay: light-gray to red to purple (mottled), sandy, limonitic.....	20	20
Clay: yellowish-green to red (somewhat mottled), blocky, sandy, limonitic .....	10	30
Sand: fine to coarse-grained, subangular, arkosic.....	20	50

**Upper Eocene: Jackson Group: Barnwell Formation:**

Clay: white to light-gray, somewhat indurated, very sandy .....	20	70
Sand: fine to coarse-grained, angular; clay, light-gray.....	10	80
Clay: yellowish-green to tan (mottled), somewhat indurated, blocky, sandy .....	30	110
Sand: fine to coarse-grained, angular, arkosic.....	30	140
Clay: dark-green, sandy, carbonaceous, fossiliferous (Foraminifera) .....	10	150

*Valvulineria jacksonensis* abundant, *Nonion advena* at 140-150.

**Middle Eocene: Claiborne Group (Undifferentiated):**

Clay: light-gray to chocolate-brown, carbonaceous, micaceous, sandy .....	10	160
Clay: as above; and indurated clay, dark-green, carbonaceous, micaceous (finely disseminated).....	25	185



**Upper Cretaceous: Tuscaloosa Formation:**

Kaolin: light-gray to pink (mottled), sandy, micaceous.....	65	250
Sand: fine to medium-grained, angular; kaolin, mottled, sandy, micaceous .....	20	270
Sand: fine to coarse-grained, arkosic.....	20	290
Sand: fine to coarse-grained; clay, gray to yellowish-green, sandy, micaceous .....	50	340
Clay or kaolin: light-gray, micaceous (sericitic).....	10	350
Sand: fine to coarse-grained; clay, gray, sandy, micaceous.....	130	480
Clay; pale-green to white, micaceous.....	20	500
Sand: fine to coarse-grained, arkosic.....	49	549

**Summary:**

Miocene (undifferentiated) .....	50	50
Upper Eocene (Barnwell formation).....	100	150
Middle Eocene (Claiborne group, undifferentiated).....	35	185
Upper Cretaceous (Tuscaloosa formation).....	364	549

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	30	140
Sand: fine to coarse-grained.....	20	290
Sand: fine to coarse-grained.....	10	510

**JEFFERSON COUNTY**

Location: In Louisville  
 Owner: City of Louisville  
 Drilled: March 1952

Well No.: GGS 219  
 Elev.: 300<sup>1</sup>

	Thickness (feet)	Depth (feet)
No samples .....	25	25

**In Upper Eocene: Jackson Group: Barnwell Formation:**

Marl: yellowish-green to gray, silty, somewhat indurated at depth, fossiliferous (Foraminifera); interbedded sand, fine to coarse-grained, angular .....	92	117
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*Nonion advena* at 25.

*Valvulineria jacksonensis* at 75.

*Angulogerina ocalana* prominent at 95.

Limestone prominent at 102-107.

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Limestone: white to gray, argillaceous, sandy, micaceous, carbonaceous, fossiliferous (macroshells and bryozoan remains); clay, brown, micaceous, lignitic.....	5	122
Marl: dark-green, somewhat indurated, sandy, phosphatic (finely disseminated), carbonaceous, fossiliferous (Foraminifera); interbedded sand, fine to coarse-grained, angular, phosphatic.....	58	180
<i>Buliminella robertsi</i> , <i>Cibicides westi</i> at 155.		
Sand: fine to medium-grained, angular, abundantly glauconitic; interbedded marl, dark gray, silty, coarsely glauconitic, fossiliferous (Foraminifera at certain horizons).....	67	247
<i>Valvulineria jacksonensis</i> var. at 195. <i>Anomalina</i> sp. at 225.		
Clay: dark-green to brown, fissile, lignitic; inclusions of kaolin, light-gray, somewhat indurated, sandy, micaceous, lignitic	4	251
Lignite abundant at 250.		

**Summary:**

No samples.....	25	25
In upper Eocene (Barnwell formation).....	92	117
Middle Eocene (Claiborne group, undifferentiated).....	134	251

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	10	117
Sand: fine to coarse-grained.....	5	127
Sand: fine to medium-grained.....	30	210

**JEFFERSON COUNTY**

Location: Few miles north of Louisville on U.S. Highway 1, 8th Military District  
 Well No.: GGS 480  
 Owner: No. 1 Enola Kelly  
 Driller: Owen Hembree  
 Drilled: October 1955

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: brick-red, sandy, limonitic.....	20	20
Sand: fine to medium-grained, phosphatic (finely disseminated).....	10	30

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Marl: gray to yellowish-green, fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera); interbedded sand, fine to coarse-grained.....	80	110
<i>Valvulineria jacksonensis</i> at 30-40.		
Limestone: light-gray, massive, saccharoidal, sandy, sparsely phosphatic, fossiliferous (casts and molds of megafossils).....	10	120
Sand: fine to medium-grained, angular, sparsely phosphatic.....	10	130
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Indurated marl: dark-green, sandy, coarsely glauconitic, phosphatic, fossiliferous (fragments and molds of megafossils, echinoid and bryozoan remains, Ostracods, and Foraminifera)	20	150
<i>Nonion advena</i> , <i>Cibicides americanus</i> var. <i>antiquus</i> at 140-150.		
Limestone: gray to yellowish-green, massive, saccharoidal, sandy, sparsely phosphatic, fossiliferous (fragments and molds of megafossils).....	20	170
No samples .....	10	180
Sand: fine to medium-grained, angular, phosphatic.....	20	200
Marl: dark-green, somewhat indurated and fissile, glauconitic; interbedded sand, fine to medium-grained, angular.....	70	270
Glauconite and siderite nodules prominent at 230-240.		
Sand: fine to coarse-grained, phosphatic; interbedded clay, dark-brown, fissile, carbonaceous, micaceous .....	50	320
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained; and clay, green to red (mottled), fissile .....	10	330
Sand: fine to coarse-grained, limonitic.....	70	400
Sand: coarse-grained, angular, arkosic, limonitic, sideritic, pyritiferous; interbedded kaolin, white to gray to red (mottled), micaceous .....	350	750
Kaolin (mottled) and siderite nodules prominent at 400-410.		
<b>Summary:</b>		
Miocene (undifferentiated) .....	30	30
Upper Eocene (Barnwell formation).....	100	130
Middle Eocene (Claiborne group, undifferentiated).....	190	320
Upper Cretaceous (Tuscaloosa formation).....	430	750

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to medium-grained.....	10	130
Sand: fine to medium-grained.....	20	200
Sand <sup>1</sup> : fine to coarse-grained.....	80	400

**Remarks:**

Samples of very poor quality.

**JEFFERSON COUNTY**

Location: Northeast of Wadley at Smith's Fish Pond      Well No.: GGS 532  
 Owner: No. 1 W. P. Smith      Elev.: 180<sup>2</sup>  
 Driller: M. M. Gray Drilling Company  
 Drilled: June 1957

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: fine to coarse-grained, angular, arkosic; clay, brick-red, sandy, limonitic .....	30	30
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**Oligocene(?) (Undifferentiated):**

Limestone: white, crystalline, saccharoidal, very sandy, coarsely glauconitic, fossiliferous (fragments and molds of megafossils, and echinoid and bryozoan remains); interbedded sand, fine to medium-grained.....	35	65
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**Upper Eocene: Jackson Group: Barnwell Formation:**

Marl: gray to light-brown, silty, indurated at certain levels, carbonaceous, fossiliferous (Foraminifera); interbedded sand, fine to coarse-grained; limestone, light-gray, somewhat saccharoidal, sandy, sparsely phosphatic, glauconitic, fossiliferous (fragments and molds of megafossils).....	185	250
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Limestone prominent at 70-80.

*Valvulineria jacksonensis* at 80-90.

*Nonion advena* at 100-110.

*Discorbis assulata* at 140-150.

Sand at 220-250.

<sup>1</sup>Additional sand aquifers occur below 400', but owing to poor samples cannot be delineated.

<sup>2</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Marl: gray to yellowish-green, somewhat indurated, phosphatic (finely disseminated), glauconitic at depth, fossiliferous (macroshells, Radiolaria, Ostracods and Foraminifera); interbedded sand, fine to coarse-grained, angular, phosphatic; and limestone, white, sandy, coarsely glauconitic, fossiliferous (macroshells, echinoid and bryozoan remains) .....	70	320
<i>Cibicides americanus</i> var., <i>Radiolaria</i> at 250-260.		
<i>Asterigerina texana</i> , <i>Cibicides westi</i> at 280-290.		
Macroshells prominent at 290-300.		
Sand: fine to coarse-grained, angular, phosphatic .....	90	410

**Summary:**

Pliocene to Recent (undifferentiated) .....	30	30
Oligocene (?) (undifferentiated) .....	35	65
Upper Eocene (Barnwell formation) .....	185	250
Middle Eocene (Claiborne group, undifferentiated) .....	160	410

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	30	250
Sand: fine to coarse-grained .....	90	410

**JEFFERSON COUNTY**

Location: In Louisville  
 Owner: City of Louisville  
 Driller: Virginia Supply and Well Company  
 Drilled: April 1958

Well No.: GGS 554  
 Elev.: 300<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular, arkosic; and clay, dark-brown, lignitic .....	25	25
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Marl: gray to yellowish-green, silty, fossiliferous (Ostracods and Foraminifera) .....	60	85

*Nonion advena*, *Nonion inexcavatus* at 30.

*Valvulineria jacksonensis* at 50.

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, angular.....	10	95
Limestone: gray to cream, nodular, saccharoidal, glauconitic, fossiliferous (casts and molds of megafossils, echinoid and bryozoan remains) .....	10	105
Sand: fine to coarse-grained, angular.....	10	115

**Middle Eocene: Claiborne Group (Undifferentiated):**

Marl: gray to light-brown, carbonaceous, micaceous; inter- bedded limestone, gray to light-brown, saccharoidal, sandy, micaceous, carbonaceous, phosphatic (finely disseminated), fossiliferous (casts and molds of megafossils).....	80	195
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*Discorbis* sp., *Cibicides americanus* var. at 120.

Glauconite prominent at 165.

Clay: dark-brown to black, somewhat fissile, carbonaceous, micaceous; and sand, fine to coarse-grained, angular.....	90	285
Sand: coarse-grained, subangular, limonitic.....	50	335

**In Upper Cretaceous: Tuscaloosa Formation:**

Sand: coarse-grained, limonitic, pyritiferous, arkosic; inter- bedded clay, yellowish-green to light-brown, somewhat iron- stained and mottled, micaceous, sideritic.....	35	370
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Sideritic nodules at 335.

**Summary:**

Pliocene to Recent (undifferentiated).....	25	25
Upper Eocene (Barnwell formation).....	90	115
Middle Eocene (Claiborne group, undifferentiated).....	220	335
In Upper Cretaceous (Tuscaloosa formation).....	35	370

**Potential Water-Bearing Zones:**

Sand: coarse-grained .....	50	335
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## JENKINS COUNTY

Location: Approximately 5.2 mi. north of junction of  
Highways 17 and 25 in Millen, Magnolia Springs, at  
domestic dwelling

Well No.: GGS 227  
Elev.: 185<sup>1</sup>

Owner: No. 1 U.S. Fish and Wildlife Service

Driller: L. P. Mons and Sons

Drilled: April 1951

	Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Sand: fine to medium-grained, phosphatic, finely disseminated  
phosphatic grains; interbedded clay, light-gray to black, lig-  
nitic, micaceous .....

3	3
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Sand: fine to medium-grained; interbedded clay, tan, sandy.....

22	25
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**Upper Eocene: Jackson Group: Cooper Marl:**

Marl: cream, hard lime nodules, fossiliferous (macroshells,  
abundant echinoid and bryozoan remains, Ostracods, and  
Foraminifera); and clay, dark brown, lignitic.....

95	120
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*Discorbis alveata*, *Discorbis assulata*, *Spirillina* sp., *Planu-  
laria truncana*, *Siphonina jacksonensis*, *Nodosaria fissicos-  
tata*, *Cibicides lobatulus* at 70-75.

*Marginulina cocoaensis*, *Guttulina spicaeformis*, *Globulina  
gibba*, *Robulus limbosus* var., *Spiroplectammina mississip-  
piensis* var., *Saracenia* sp., *Planularia truncana*, *Eponides  
jacksonensis*, *Cibicides mississippiensis* at 75-120.

**Middle Eocene: Claiborne Group: Lisbon Formation:**

Sand: fine to medium-grained, phosphatic, angular.....

130	250
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Limestone: light-gray, very dense (highly calcitized), sandy,  
phosphatic, fossiliferous (macroshells and rare Ostracods  
and Foraminifera) .....

59	309
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**Summary:**

Miocene (undifferentiated) .....	25	25
Upper Eocene (Cooper marl).....	95	120
Middle Eocene (Lisbon formation).....	189	309

**Potential Water-Bearing Zones:**

Sand: fine to medium-grained.....	40	250
Limestone .....	59	309

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

## LANIER COUNTY

Location: In Lakeland  
 Owner: City of Lakeland  
 Driller: Layne-Atlantic Company  
 Drilled: May 1953

Well No.: GGS 346  
 Elev.: 175<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, inclusions of kaolin; interbedded with clay, light-gray to yellow to red (mottled), very sandy, limonitic .....	64	64
<b>Miocene (Undifferentiated):</b>		
Clay: light-gray or olive-green, somewhat indurated, cherty, phosphatic (white phosphatic pebbles).....	20	84
Sand: fine to medium-grained, phosphatic.....	10	94
Clay: light-gray to white, indurated, sandy, carbonaceous.....	11	105
Limestone: light-gray to white, dense (much calcitized), sandy, finely disseminated phosphatic grains.....	20	125
Clay: turquoise-blue, somewhat indurated, tough, sandy.....	29	154
Dolomitic limestone: light-brown, saccharoidal, phosphatic.....	69	223
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray to cream, dense (much calcitized), nodular, fossiliferous (Foraminifera).....	108	331
<i>Pyrgo</i> sp., <i>Dictyoconus</i> <sup>2</sup> sp. at 223.		
<i>Miliolidae</i> prominent at 280-302.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray, very dense (highly calcitized), massive, fossiliferous (bryozoan and echinoid remains, macroshells, and some Foraminifera).....	19	350
<i>Operculinoides</i> sp. at 331-350.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	64	64
Miocene (undifferentiated) .....	159	223
Oligocene (undifferentiated) .....	108	331
Upper Eocene (Ocala limestone).....	19	350

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

<sup>2</sup>Reworked (?) fossil of middle Eocene age.



	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to medium-grained.....	10	94
Limestone .....	127	350

**LAURENS COUNTY**

Location: Dublin  
 Owner: City of Dublin  
 Driller: Layne-Atlantic Company  
 Drilled: May 1955

Well No.: GGS 438  
 Elev.: 198

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: coarse-grained, angular, arkosic; clay, light-gray to red (mottled), sandy, limonitic; residual limestone, white to yellow, iron-stained, dense, crystalline, cherty, sandy, fossiliferous (fragments, casts and molds of megafossils, echinoid and bryozoan remains, and some Foraminifera).....	5	5
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**Oligocene (Undifferentiated):**

Limestone: white to yellow, dense, crystalline, cherty, sandy (sandier at depth), fossiliferous (fragments, casts and molds of megafossils, echinoid and bryozoan remains, and Foraminifera); interbedded clay, olive-green to tan, sandy.....	40	45
<i>Quinqueloculina</i> sp., <i>Pyrgo</i> sp., <i>Asterigerina</i> cf. <i>A. subacuta</i> at 5-28.		
<i>Gypsina globula</i> <sup>1</sup> at 28-35.		
Indurated sand: fine-grained.....	7	52

**Upper Eocene: Jackson Group: Barnwell Formation:**

Marl: gray, silty, fossiliferous (Foraminifera).....	18	70
<i>Discorbis cocoaensis</i> , <i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Cibicides lobatulus</i> at 52-56.		
<i>Nonion advena</i> common, <i>Valvulineria jacksonensis</i> abundant at 56-65.		
Limestone: cream, dense, crystalline, very sandy.....	20	90
Marl: gray, silty, fossiliferous (Foraminifera).....	78	168
Limestone: light-gray to white, somewhat saccharoidal, coarsely glauconitic, fossiliferous (macroshells, echinoid and bryozoan remains and Foraminifera).....	32	200
<i>Gypsina globula</i> , <i>Operculinoides floridensis</i> , <i>Lepidocyclina</i> sp., <i>Asterocyclina</i> sp. at 176-200.		

<sup>1</sup>Reworked(?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Limestone: gray, dense, saccharoidal, sandy, micaceous, phosphatic (finely disseminated), fossiliferous (fragments, casts and molds of megafossils, and Foraminifera).....	20	220
<i>Gyroidina soldanii</i> var., <i>Nonion advena</i> , <i>Cibicides americanus</i> var., <i>Cibicides</i> cf. <i>C. refulgens</i> at 206-216.		
Marl: dark-green, silty, fossiliferous (Ostracods and Foraminifera) .....	60	280
<i>Nonion micrus</i> , <i>Cibicides americanus</i> var., <i>Cibicides westi</i> at 235-245.		
Sericitic clay: yellowish-green to pink, prominent at 245-267.		
Limestone: gray to dark-green, argillaceous, dense, carbonaceous, micaceous, coarsely glauconitic, sandy, fossiliferous (fragments, casts and molds of megafossils); interbedded sand, fine to medium-grained, lignitic, phosphatic; and clay, dark-green to brown, somewhat indurated.....	94	374
Macroshells prominent at 318-328.		
Sand: medium to coarse-grained, angular, phosphatic .....	30	404
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Sand: coarse-grained, angular, limonitic; interbedded kaolin, gray to red (mottled), micaceous, sandy.....	16	420
Sand: fine to coarse-grained, angular.....	24	444
Kaolin: gray to red (mottled), micaceous.....	24	468
Sand: coarse-grained, angular, sideritic.....	102	570
Siderite nodules prominent at 478-490.		
Sand: fine to coarse-grained, angular, sideritic; interbedded clay (or kaolin), gray to red, micaceous, sandy.....	165	735
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	5	5
Oligocene (undifferentiated) .....	47	52
Upper Eocene (Barnwell formation).....	148	200
Middle Eocene (Claiborne group, undifferentiated).....	204	404
Upper Cretaceous (Tuscaloosa formation).....	331	735

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	30	404
Sand: fine to coarse-grained.....	24	444
Sand: fine to coarse-grained.....	102	570
Sand: fine to coarse-grained.....	23	626
Sand: fine to coarse-grained.....	16	672
Sand: fine to coarse-grained.....	30	720

## LEE COUNTY

Location: 0.45 mi. west of Main Park Entrance, few hundred yards north of caretaker's residence in Chehaw State Park  
 Well No.: GGS 74  
 Elev.: 216  
 Owner: No. 1 Chehaw State Park  
 Drilled: January 1937

	Thickness (feet)	Depth (feet)
<b>In Residuum:</b>		
Sand: coarse-grained, angular.....	37	37
No samples.....	13	50

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, nodular, much calcitized, glauconitic at depth, fossiliferous (macroshells, bryozoan remains and Foraminifera)..... 130 180

*Operculinooides* sp. at 60-70.

*Gypsina globula* at 90-100.

*Amphistegina pinarensis* var., *Operculina mariannensis* at 150-160.

**Middle Eocene: Claiborne Group: Lisbon Formation:**

Limestone: light-gray, dense, crystalline, sandy, coarsely glauconitic at depth, fossiliferous (fragments, casts and molds of megafossils, echinoid and bryozoan remains, and Foraminifera)..... 95 275

*Cibicides pseudoungerianus* var. *lisbonensis* at 210-220.

*Asterocyclina monticellensis*, *Asterigerina* sp. at 220-230.

Glauconite prominent at 250-260.

	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, angular, phosphatic, fossiliferous (common to abundant macroshells); interbedded marl, gray, silty, micaceous.....	105	380
<i>Cibicides tallahattensis</i> at 360-370.		
Limestone: gray, dense, sandy; marl, gray, silty, micaceous, glauconitic (finely disseminated), fossiliferous (Foraminifera) .....	30	410
<i>Valvulineria jacksonensis</i> var. at 380-390.		
<i>Cibicides blanchi</i> at 390-400.		
Sand: fine to medium-grained, subangular, phosphatic; interbedded marl, gray, silty, micaceous, fossiliferous (Foraminifera) .....	40	450
Black phosphatic pebbles prominent at 410-420.		
Fish teeth prominent at 430-440.		
Limestone (or buhrstone): dark-gray to brown, very dense, crystalline, sandy, cherty; some marl, as above.....	20	470
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Indurated sand: fine to coarse-grained, coarsely and abundantly glauconitic, fossiliferous (Foraminifera).....	50	520
<i>Valvulineria wilcoxensis</i> , <i>Cibicides howelli</i> , <i>Eponides dorfi</i> at 480-490.		
Marl: dark-gray, silty, micaceous, carbonaceous.....	40	560
Sand: fine to coarse-grained, angular, green quartz grains.....	10	570
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Indurated sand: fine to medium-grained, glauconitic, fossiliferous (macroshells and Foraminifera); interbedded clay, black, fissile, carbonaceous, micaceous (finely disseminated).....	50	620
<i>Operculinoides catenula</i> at 570-580.		
<i>Discorbis midwayensis</i> var. <i>trinitatensis</i> at 590-600.		
Limestone: light-gray, dense, crystalline, coarsely but sparsely glauconitic, fossiliferous (carrying fragments, casts and molds of megafossils and bryozoan remains).....	100	720
Limestone: as above, but very sandy.....	10	730
Sand: medium-grained, angular.....	30	760

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Providence Sand:</b>		
Indurated sand: medium-grained, angular.....	30	790
Marl: gray, silty, chalky, fossiliferous (Foraminifera).....	10	800
<i>Anomalina pseudopapillosa</i> at 790-800.		

**Summary:**

Residuum .....	37	37
No samples .....	13	50
In upper Eocene (Ocala limestone).....	130	180
Middle Eocene (Lisbon formation).....	95	275
Middle Eocene (Tallahatta formation).....	195	470
Lower Eocene (Wilcox group, undifferentiated).....	100	570
Paleocene (Clayton formation).....	190	760
Upper Cretaceous (Providence sand).....	40	800

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	105	380
Sand: fine to medium-grained.....	40	450
Sand: fine to coarse-grained.....	10	570
Limestone .....	100	729
Sand: fine to medium-grained.....	30	760

**LEE COUNTY**

Location: Approximately 3.5 mi. northeast of center of Well No.: GGS 270  
 Leesburg, 0.5 mi. south of Muckalee Creek bridge, east Elev.: 265  
 side of State Highway 195, about 20 ft. east of dwelling  
 Owner: No. 1 Will Gillam  
 Driller: F. P. Jones  
 Drilled: February 1952

	Thickness (feet)	Depth (feet)
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**Residuum:**

Sand: fine to coarse-grained, angular, limonitic.....	25	25
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**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, dense, crystalline, much calcitized, some- what saccharoidal, porous at certain levels, fossiliferous (remains of macroshells, echinoids and bryozoa and some Foraminifera) .....	45	70
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*Operculina* sp., *Lepidocyclina* sp. at 60-70.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum .....	25	25
Upper Eocene (Ocala limestone) .....	45	70

**Potential Water-Bearing Zones:**

Limestone .....	45	70
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**LEE COUNTY**

Location: 3.2 mi. north-northeast of Leesburg, approximately 1 mi. east of State Highway 195, 0.25 mi. south of east-west county road in bottom of valley  
 Well No.: GGS 271  
 Elev.: 267  
 Owner: No. 1 Farm Craft Association (Citizens Bank, Americus)  
 Driller: F. P. Jones  
 Drilled: February 1952

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine-grained .....	25	25

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, much calcitized, rather massive, crystalline and somewhat saccharoidal, fossiliferous (macroshells, echinoid and bryozoan remains, and some Foraminifera)..... 136 161  
*Operculina* sp., *Lepidocyclina* sp. at 35-45.

**Summary:**

Residuum .....	25	25
Upper Eocene (Ocala limestone) .....	136	161

**Potential Water-Bearing Zones:**

Limestone .....	136	161
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## LEE COUNTY

Location: Central-north part of county, 0.25 mi. south of Lee-Sumter County line, 0.95 mi. northwest of New Hope Church, 0.5 mi. north of prominent curve in county road on west side of field road, about 50 ft. north of dwelling

Well No.: GGS 286  
Elev.: 354

Owner: Robert Snead

Driller: F. P. Jones

Drilled: March 1952

	Thickness (feet)	Depth (feet)
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**Residuum:**

Clay: mottled, very sandy, limonitic.....	30	30
Clay: brown, very sandy, limonitic.....	15	45

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white to cream, calcitized, somewhat crystalline and saccharoidal, fossiliferous (bryozoan remains and Foraminifera) .....	55	100
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*Operculina* sp., *Lepidocyclina* sp. at 80-90.

Sand: medium-grained, angular.....	39	139
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**Summary:**

Residuum .....	45	45
Upper Eocene (Ocala limestone).....	94	139

**Potential Water-Bearing Zones:**

Limestone .....	55	100
Sand: medium-grained .....	39	139

## LEE COUNTY

Location: 6.5 mi. due east of Central of Georgia R.R. crossing in Leesburg via county road, 1 mi. north on north-south county road, west side of road at dwelling

Well No.: GGS 299  
Elev.: 286

Owner: No. 1 Henrietta Hubert

Driller: F. P. Jones

Drilled: May 1952

	Thickness (feet)	Depth (feet)
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**Residuum:**

Clay: mottled, sandy, limonitic.....	20	20
Clay: brown to black, lignitic, sandy.....	20	40

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone</b>		
Limestone: white to cream, calcitized, rather dense and crystalline, fossiliferous (macroshells, echinoid spines and frequent bryozoan remains, and Foraminifera).....	100	140
<i>Operculina mariannensis</i> at 40-50.		
Sand: medium to coarse-grained, angular.....	20	160

**Summary:**

Residuum .....	40	40
Upper Eocene (Ocala limestone).....	120	160

**Potential Water-Bearing Zones:**

Limestone .....	100	140
Sand: medium to coarse-grained.....	20	160

**LEE COUNTY**

Location: 10.2 mi. northwest of Leesburg, 0.55 mi. west of Highway 19  
 Owner: No. 1 Dixie Pines Company  
 Driller: Southeastern Drilling Company  
 Drilled: March 1955

Well No.: GGS 424  
 Elev.: 303

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: bluish-gray to tan to red (mottled), very sandy, limonitic .....	20	20
Sand: fine to medium-grained, angular.....	10	30

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: yellow, iron-stained, much leached, very sandy, fossiliferous (megafossils, echinoid and bryozoan remains and Foraminifera) .....	10	40
Sand: fine to coarse-grained, angular.....	16	56
<i>Gypsina globula</i> , <i>Eponides jacksonensis</i> at 50-60.		

**Middle Eocene: Claiborne Group: Lisbon Formation:**

Limestone: cream, sandy, glauconitic (finely disseminated), fossiliferous (macroshells and bryozoan remains); interbedded marl, gray, silty, glauconitic (finely disseminated), fossiliferous (Foraminifera) .....	18	74
<i>Siphonina claibornensis</i> , <i>Gyroidina soldanii</i> var., <i>Cibicides americanus</i> , <i>Cibicides westi</i> at 60-70.		



	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained, angular; interbedded marl and limestone, as above.....	64	138
<b>Tallahatta Formation:</b>		
Marl: gray, silty, glauconitic (finely disseminated), fossiliferous (Foraminifera) .....	4	142
<i>Planularia</i> sp., <i>Cibicides americanus</i> var., <i>Cibicides westi</i> , <i>Cibicides tallahattensis</i> at 130-140.		
Sand: fine to coarse-grained, angular, phosphatic, fossiliferous (macroshells at certain levels); interbedded marl, gray, silty, glauconitic (finely disseminated), fossiliferous (Foraminifera); and limestone, gray, dense, sandy, cherty, fossiliferous (macroshells) .....	78	220
Macroshells prominent at 170-180.		
<i>Valvulineria jacksonensis</i> var., <i>Siphonina claibornensis</i> , <i>Nonion advena</i> , <i>Cibicides tallahattensis</i> , <i>Cibicides blaniptedi</i> at 170-180.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: tan to olive-green to red (mottled), dark-gray at depth, glauconitic, carbonaceous, micaceous, pyritiferous at depth....	80	300
Sand: fine to coarse-grained, angular, abundantly glauconitic, contains grains of pale-green quartz.....	25	325
<b>Paleocene(?):</b>		
Sand: as above; interbedded clay, light-gray, blocky, somewhat indurated, micaceous, carbonaceous.....	25	350
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: dark-gray, carbonaceous, micaceous; interbedded sand, fine to coarse-grained, angular, somewhat indurated; and limestone, light-gray, dense, crystalline, coarsely but sparsely glauconitic, sandy, fossiliferous (fragments, casts and molds of megafossils, bryozoan remains and Foraminifera)....	34	384
<i>Discorbis midwayensis</i> , <i>Valvulineria scrobiculata</i> , <i>Siphonina prima</i> , <i>Eponides lotus</i> , <i>Cibicides newmanae</i> at 370-380.		
Limestone: light-gray to white, crystalline, coarsely but sparsely glauconitic, sandy, fossiliferous (as above) .....	46	430
<i>Robulus midwayensis</i> , <i>Eponides lotus</i> , <i>Anomalina midwayensis</i> , <i>Cibicides howelli</i> at 380-390.		
No samples .....	50	480

	Thickness (feet)	Depth (feet)
<b>In Upper Cretaceous: Providence and Ripley (Undifferentiated):</b>		
Marl: dark-bluish-gray, sandy, somewhat chalky, micaceous, pyritiferous, fossiliferous at certain levels (macroshells, Ostracods and Foraminifera); interbedded sand, fine to coarse-grained, angular, indurated, fossiliferous (a coquina at certain levels).....	210	690
<i>Anomalina pseudopapillosa</i> at 480-490.		
<i>Gaudryina rudita</i> at 620-630.		
<i>Vaginulina webbervillensis</i> at 680-690.		

**Summary:**

Residuum .....	30	30
Upper Eocene (Ocala limestone) .....	26	56
Middle Eocene (Lisbon formation) .....	82	138
Middle Eocene (Tallahatta formation) .....	82	220
Lower Eocene (Wilcox group, undifferentiated) .....	105	325
Paleocene(?) .....	25	350
Paleocene (Clayton formation) .....	80	430
No samples .....	50	480
In Upper Cretaceous (Providence and Ripley, undifferentiated)....	210	690

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	18	160
Sand: fine to coarse-grained .....	25	325
Sand: fine to coarse-grained .....	10	350
Limestone .....	46	430
Sand: fine to coarse-grained .....	46	602

**Remarks:**

On the basis of the electric log, top of the Upper Cretaceous is probably at 460.

**LIBERTY COUNTY**

Location: 1.6 mi. northwest of County Courthouse at Well No.: GGS 6  
Hinesville, and about 200 yd. southwest of Taylors Elev.: 91

Creek Rd. at Camp Stewart

Owner: U. S. Government (War Department)

Driller: Layne-Atlantic Company

Drilled: November 1940

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, finely disseminated phosphatic grains .....	100	100
Sand: coarse-grained, arkosic .....	50	150

	Thickness (feet)	Depth (feet)
<b>In Miocene (Undifferentiated):</b>		
Sand: coarse-grained, arkosic; and clay, dark-green, silty.....	100	250
Limestone: white, sandy, phosphatic; sand and clay, as above....	10	260
Clay: dark-green, silty, phosphatic .....	75	335
Sand: fine to coarse-grained, phosphatic .....	20	355
No samples .....	40	395
Clay: as above; dolomitic limestone, brown, saccharoidal, sandy, phosphatic .....	40	435
Dolomitic limestone: brown, saccharoidal, sandy, phosphatic; limestone, white, very sandy, phosphatic .....	10	445
No samples .....	26	471
Limestone: light-gray to white, dense (much calcitized), sandy, phosphatic, fossiliferous (casts and molds of mega- fossils) .....	?	471
No samples .....	20	491

**In Oligocene (Undifferentiated):**

Limestone: as above; fragments of cream limestone, nodular (much calcitized), fossiliferous (Foraminifera) .....	?	491
No samples .....	20	511

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: light-gray, saccharoidal (much calcitized), crys- talline, fossiliferous (abundant bryozoan remains and Foraminifera) .....	305	816
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*Operculinoides* sp., *Gypsina globula*, *Asterocyclina nas-  
sauensis* at 511.

*Amphistegina pinarensis* var. at 730-750.

**Summary:**

Pliocene to Recent (undifferentiated).....	150	150
In Miocene (undifferentiated) .....	321	471
No samples .....	20	491
In Oligocene (undifferentiated) .....	?	491
No samples .....	20	511
In upper Eocene (Ocala limestone) .....	305	816

**Potential Water-Bearing Zones:**

Sand: coarse-grained .....	50	150
Sand: fine to coarse-grained .....	20	355
Limestone .....	315	816

## LIBERTY COUNTY

Location: 1.8 mi. north of Flemington, Liberty Field Well No.: GGS 38  
 (Camp Stewart) Elev.: 46  
 Owner: U. S. Government (War Department)  
 Driller: Virginia Machine and Well Company  
 Drilled: October 1942

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: bluish-gray to red (mottled), sandy .....	10	10
Clay: brick-red, sandy .....	5	15
Sand: fine to coarse-grained, arkosic; interbedded clay, dark-gray to black, lignitic, micaceous .....	25	40
Sand: fine-grained, argillaceous, finely disseminated phosphatic grains .....	5	45
Clay: gray to bluish-gray, somewhat indurated, blocky, phosphatic (brown phosphate pebbles) .....	10	55
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, silty, micaceous, reddish-brown phosphatic grains .....	245	300
Limestone: light-gray, very sandy, phosphatic, fossiliferous (fragments and impressions of megafossils) .....	7	307
Clay: as above, but much sandier .....	48	355
Limestone: white, dense, very sandy, phosphatic; interbedded dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic .....	30	385
<b>Oligocene (Undifferentiated):</b>		
Limestone: gray, very dense (much calcitized), sandy, fossiliferous (casts and impressions of megafossils); scattered fragments of porous limestone, cream, fossiliferous (Foraminifera) .....	25	410
<i>Rotalia mexicana</i> var. at 385-390.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	55	55
Miocene (undifferentiated) .....	330	385
Oligocene (undifferentiated) .....	25	410

Thickness  
(feet)      Depth  
(feet)

**Potential Water-Bearing Zones:**

None observed to 410.

**Remarks:**

Well reportedly reached a total depth of 508.

**LIBERTY COUNTY**

Location: 7 mi. northwest of Liberty County Courthouse at Hinesville, about 1,600 ft. northeast of Taylors Creek Rd., at Camp Stewart      Well No.: GGS 66  
Elev.: 88  
Owner: U.S. Government (War Department)  
Driller: Virginia Machine and Well Company  
Drilled: October 1940

Thickness  
(feet)      Depth  
(feet)

**Pliocene to Recent (Undifferentiated):**

Sand: fine to medium-grained, phosphatic (finely disseminated); interbedded clay, dark-gray, lignitic, micaceous.....	80	80
Sand: very coarse-grained, rounded .....	65	145
Sand: fine-grained .....	50	195

**In Miocene (Undifferentiated):**

Clay: dark-green, silty, phosphatic .....	50	245
Clay: pale to dark-green, somewhat indurated, sandy, phosphatic .....	110	355
Clay: dark-green, very sandy, phosphatic .....	10	365
Sand: very coarse-grained .....	5	370
Sand: fine to coarse-grained, phosphatic; limestone, white, dense (much calcitized), very sandy, phosphatic, fossiliferous (casts and molds of megafossils) .....	70	440
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic .....	5	445
Limestone: white to light-gray, highly calcitized, sandy, phosphatic .....	15	460
<i>Quinqueloculina</i> sp., <i>Massilina</i> sp. at 460.		
No samples .....	40	500

	Thickness (feet)	Depth (feet)
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray, crystalline (much calcitized), fossiliferous (bryozoan remains and Foraminifera) .....	?	500
<i>Gypsina vesicularis</i> , <i>Operculinoides</i> sp., <i>Asterocyclina</i> sp. at 500.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	195	195
In Miocene (undifferentiated) .....	265	460
No samples .....	40	500
In upper Eocene (Ocala limestone) .....	?	500

**Potential Water-Bearing Zones:**

Limestone .....	55	500
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**LIBERTY COUNTY**

Location: 1.7 mi. northwest of Liberty County Courthouse at Hinesville, 1,900 ft. northeast of Taylors Creek Rd., at Camp Stewart

Well No.: GGS 72  
Elev.: 86

Owner: U.S. Government (War Department)

Driller: Layne-Atlantic Company

Drilled: December 1940

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, phosphatic (finely disseminated) .....	100	100
No samples .....	20	120
Sand: coarse-grained, arkosic .....	62	182
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic; sand, fine to coarse-grained, arkosic .....	98	280
Clay: dark-green, phosphatic, cherty .....	40	320
No samples .....	20	340
Dolomitic limestone: light-brown, sandy, phosphatic; interbedded limestone, gray, dense (much calcitized), very sandy, phosphatic .....	100	440

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: as above; with fragments of limestone, white, dense (much calcitized), fossiliferous (casts of megafossils and Foraminifera) .....	70	510
<i>Rotalia mexicana</i> var. at 440-452.		
No samples .....	20	530

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white, rather massive, much calcitized, fossiliferous (bryozoan remains, macroshells and Foraminifera) .....	120	650
<i>Operculinoides floridensis</i> , <i>Asterocyclina</i> sp. at 530-550.		
<i>Asterocyclina nassauensis</i> , <i>Gypsina globula</i> , <i>Pseudophragmina flintensis</i> at 550-570.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	182	182
In Miocene (undifferentiated) .....	258	440
Oligocene (undifferentiated) .....	70	510
No samples .....	20	530
In upper Eocene (Ocala limestone) .....	120	650

**Potential Water-Bearing Zones:**

Limestone .....	210	650
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**LIBERTY COUNTY**

Location: Long 81°20'45" W., Lat 31°41'15" N.	Well No.: GGS 363
Owner: No. 1 Jelks-Rogers	Elev.: 26
Driller: E. B. LaRue	(derrick floor)
Drilled: 1953	

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: fine to medium-grained, angular, finely disseminated black phosphatic grains; interbedded clay, dark-gray, silty, micaceous .....	80	80
Sand: coarse-grained, subangular, arkosic .....	30	110

**Miocene (Undifferentiated):**

Clay: dark-green, sandy, phosphatic .....	175	285
Claystone, dark-brown, dense, sandy, micaceous, prominent at 240-260.		

	Thickness (feet)	Depth (feet)
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic .....	45	330
Clay: dark-green, sandy, phosphatic .....	15	345
Limestone: white, massive, sandy, phosphatic, fossiliferous (fragments, casts and molds of megafossils) .....	30	375

**Oligocene (Undifferentiated):**

Limestone: light-gray, somewhat chalky (weathered ?), nodular, calcitized, fossiliferous (bryozoan remains and Foraminifera) .....	90	465
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*Rotalia mexicana* var. at 400-420.

*Asterocyclina*<sup>1</sup> sp., *Gypsina globula*<sup>1</sup> at 440-460.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, rather massive, nodular (calcitized), fossiliferous (macroshells, echinoid and bryozoan remains, and some Foraminifera) .....	335	800
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*Operculinoides* cf. *O. floridensis* at 460-480.

*Gypsina globula* at 480-500.

*Asterocyclina nassauensis* at 500-520.

*Pseudophragmina flintensis* at 520-540.

*Camerina striatoreticulata* at 700-720.

*Amphistegina pinarensis* var. at 740-760.

*Lepidocyclina (Polylepidina) antillea*<sup>1</sup> at 1000-1020.

Limestone: as above, but granular, loosely consolidated .....	240	1,040
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**Middle Eocene: Claiborne Group: Lisbon Formation:**

Limestone: white, massive, somewhat nodular (calcitized), coarsely but sparsely glauconitic, fossiliferous (macroshells, echinoid and bryozoan remains and Foraminifera) .....	40	1,080
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*Asterocyclina monticellensis* at 1040-1060.

*Discorbis inornatus* at 1060-1080.

Limestone: as above; and dolomitic limestone, gray to light-brown, saccharoidal, sparsely glauconitic, gypsiferous .....	220	1,300
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Limestone: cream, granular, loosely consolidated, cherty .....	135	1,435
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Chert abundant at 1320-1340.

<sup>1</sup>Reworked (?) fossil of middle Eocene age.



	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Marl: brownish-green, somewhat indurated, silty, glauconitic, micaceous, pyritiferous, fossiliferous (Foraminifera) .....	70	1,505
<i>Cyclammina</i> sp., <i>Robulus alato-limbatus</i> , <i>Marginulina vacavillensis</i> , <i>Gyroidina soldanii</i> var., <i>Reussella subrotundata</i> , <i>Valvulineria jacksonensis</i> var., <i>Cibicides pippeni</i> var., <i>Cibicides blanpiedi</i> at 1460-1480.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Limestone: light-brown, argillaceous, somewhat granular and loosely consolidated, glauconitic, micaceous, cherty at depth....	175	1,680
<i>Robulus</i> sp., <i>Eponides</i> cf. <i>E. dorfi</i> at 1500-1520.		
Indurated sand: light-gray, medium-grained, coarsely but abundantly glauconitic; grades downward into limestone, cream to light-gray, much calcitized, rather dense, finely glauconitic (a pepper and salt appearance), cherty at certain levels .....	160	1,840
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Marl: dark-gray, somewhat indurated and tough, silty, coarsely glauconitic, micaceous, fossiliferous (Foraminifera); interbedded indurated sand, light-gray, fine-grained, micaceous, fossiliferous (Foraminifera) .....	60	1,900
<i>Spiroplectammina wilcoxensis</i> , <i>Nodosaria affinis</i> , <i>Polymorphina</i> cf. <i>P. cushmani</i> , <i>Guembelina</i> sp., <i>Anomalina acuta</i> at 1860-1880.		
<i>Robulus midwayensis</i> at 1890-1900.		
Limestone: light-gray, rather dense, crystalline, sandy, coarsely glauconitic, fossiliferous (Foraminifera) .....	40	1,940
<i>Robulus pseudo-mamilligerus</i> , <i>Robulus</i> cf. <i>R. turbinatus</i> at 1900-1920.		
▪ <i>Vaginulina longiforma</i> at 1920-1940.		
Limestone: gray, sandy, glauconitic; interbedded marl, gray, glauconitic, fossiliferous (Foraminifera) .....	155	2,095
<i>Robulus midwayensis</i> at 1960-1980.		
Limestone (or calcareous sandstone): gray, sandy.....	185	2,280

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Post-Eutaw (Undifferentiated):</b>		
Marl: gray to brown at depth, carbonaceous, somewhat fissile at depth, chalky, silty, much sandier at depth, micaceous, glauconitic, pyritiferous .....	1,190	3,470
<i>Guembelina</i> sp. at 2280-2290.		
<i>Planulina taylorensis</i> at 2740-2750.		
<i>Kyphopyxa christneri</i> at 3090-3100.		
<i>Vaginulina texana</i> at 3290-3300.		

**Eutaw Formation (Restricted):**

Sand: fine to medium-grained, somewhat indurated, phosphatic, fossiliferous (macroshells); interbedded clay, gray, micaceous, carbonaceous, somewhat fissile .....	145	3,615
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**Tuscaloosa Formation:**

Sand: fine to coarse-grained, angular, arkosic; interbedded clay, yellowish-green to red to purple (mottled), sandy, micaceous .....	255	3,870
Clay (or shale): dark-gray to black, fissile, carbonaceous, micaceous (finely disseminated); interbedded sand, fine to coarse-grained, angular, arkosic .....	95	3,965
Indurated sand: fine to coarse-grained, glauconitic .....	20	3,985
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, yellowish-green to red to purple, greasy, sandy, micaceous .....	265	4,250

**Basement Complex (Undifferentiated):**

Crystalline Rock .....	4	4,254
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**Summary:**

Pliocene to Recent (undifferentiated) .....	110	110
Miocene (undifferentiated) .....	265	375
Oligocene (undifferentiated) .....	90	465
Upper Eocene (Ocala limestone) .....	575	1,040
Middle Eocene (Lisbon formation) .....	395	1,435
Middle Eocene (Tallahatta formation) .....	70	1,505
Lower Eocene (Wilcox group, undifferentiated) .....	335	1,840
Paleocene (Clayton formation) .....	440	2,280
Upper Cretaceous (post-Eutaw, undifferentiated) .....	1,190	3,470
Upper Cretaceous (Eutaw formation, restricted) .....	145	3,615
Upper Cretaceous (Tuscaloosa formation) .....	635	4,250
Basement complex (undifferentiated) .....	4	4,254

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	705	1,080

**Remarks:**

Overall quality of cuttings poor.

**LIBERTY COUNTY**

Location: Taylors Creek, Camp Stewart  
 Owner: U.S. Government (War Department)  
 Driller: M. M. Gray Drilling Company  
 Drilled: 1955

Well No.: GGS 460  
 Elev.: 50

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, limonitic; interbedded clay, bluish-gray to tan to red (mottled), sandy .....	40	40
Sand: coarse-grained, rounded, arkosic; clay, dark-green, sandy, micaceous .....	100	140
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, micaceous .....	40	180
Clay: as above; interbedded limestone, light-gray, saccharoidal (much calcitized), sandy, phosphatic .....	30	210
Clay: bluish-gray, indurated, sandy, cherty; interbedded limestone, light-gray, saccharoidal (much calcitized), sandy, phosphatic, fossiliferous (casts and impressions of megafossils) .....	110	320
Limestone: gray to light-brown, saccharoidal (much calcitized), sandy, phosphatic, dolomitized at certain levels, fossiliferous (fragments and casts of megafossils) .....	70	390
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, massive, nodular (much calcitized), fossiliferous (Foraminifera) .....	20	410
<i>Quinqueloculina</i> sp., <i>Rotalia mexicana</i> var. at 390-400.		

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream to white, saccharoidal (much calcitized), crystalline, fossiliferous (macroshells, bryozoan remains and Foraminifera) .....	58	468
<i>Asterocyclina nassauensis</i> , <i>Gypsina vesicularis</i> , <i>Operculinoides floridensis</i> at 410-420.		
<i>Pseudophragmina flintensis</i> at 450-460.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	140	140
In Miocene (undifferentiated) .....	250	390
Oligocene (undifferentiated) .....	20	410
Upper Eocene (Ocala limestone) .....	58	468

**Potential Water-Bearing Zones:**

Limestone .....	78	468
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**LIBERTY COUNTY**

Location: 0.5 mi. south of Midway, on U.S. Highway 17, at firetower      Well No.: GGS 548  
 Owner: No. 1 State Forestry Department      Elev.: 10  
 Driller: Bailey Drilling Company  
 Drilled: 1957

**Pliocene to Recent (Undifferentiated):**

Sand: fine-grained, arkosic, phosphatic (finely disseminated) ..	10	10
Sand: fine to coarse-grained, rounded, arkosic; interbedded clay, dark-gray, to black, fissile, lignitic, micaceous .....	17	27
Clay: dark-gray, blocky, carbonaceous .....	15	42
Sand: very coarse-grained, rounded, arkosic .....	51	93

**Miocene (Undifferentiated):**

Clay: dark-green, sandy, phosphatic; interbedded sand, fine to coarse-grained, phosphatic .....	214	307
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; interbedded clay, dark-green, sandy, phosphatic; sand, fine to coarse-grained, phosphatic .....	83	390

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, rather dense and crystalline (much calcitized), nodular, fossiliferous (Foraminifera) .....	55	445
<i>Rotalia mexicana</i> var. at 390-400.		

<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>			4
Limestone: light-gray to white, somewhat saccharoidal (much calcitized), fossiliferous (bryozoan remains, Ostracods, and (Foraminifera) .....	109	554	
<i>Operculinoides</i> sp., <i>Asterocyclina nassauensis</i> at 441-451.			

**Summary:**

Pliocene to Recent (undifferentiated) .....	93	93
Miocene (undifferentiated) .....	297	390
Oligocene (undifferentiated) .....	55	445
Upper Eocene (Ocala limestone) .....	109	554

**Potential Water-Bearing Zones:**

Limestone .....	164	554
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**LONG COUNTY**

Location: West side of Atlantic Coast Line R.R. in Ludowici	Well No.: GGS 67
Owner: No. 1 City of Ludowici	Elev.: 69
Driller: Gray Well and Pump Company	
Drilled: June 1939	

	Thickness (feet)	Depth (feet)
No samples .....	395	395

**In Miocene (Undifferentiated):**

Limestone: light-gray, sandy, phosphatic, fossiliferous (molds and impressions of megafossils); sand, fine to medium-grained; dolomitic limestone, light-brown, saccharoidal, sandy	10	405
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**Oligocene (Undifferentiated):**

Limestone: gray, dense (much calcitized), fossiliferous (Foraminifera); sand, as above .....	20	425
<i>Rotalia byramensis</i> var., <i>Quinqueloculina</i> sp. at 405-415.		
<i>Operculinoides</i> sp. at 415-425.		

	Thickness (feet)	Depth (feet)
Limestone: cream, massive (much calcitized), nodular, somewhat oolitic, fossiliferous (abundant Foraminifera) .....	10	435

*Miliolidae* abundant at 425-435.

#### Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: white, dense (much calcitized), somewhat saccharoidal, fossiliferous (bryozoan remains and Foraminifera)....	150	585
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*Asterocyclina nassauensis*, *Pseudophragmina flintensis*, *Gypsina globula* at 435-445.

#### Summary:

No samples .....	395	395
In Miocene (undifferentiated) .....	10	405
Oligocene (undifferentiated) .....	30	435
Upper Eocene (Ocala limestone) .....	150	585

#### Potential Water-Bearing Zones:

Limestone .....	180	585
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#### LOWNDES COUNTY

Location: 12 mi. north of Valdosta on Highway 125

Well No.: GGS 15

Owner: U.S. Government (Moody Field) No. 2

Elev.: 236

Driller: U.S. Corps of Engineers

Drilled: September 1941

#### Pliocene to Recent (Undifferentiated):

Sand: fine to medium-grained, phosphatic (finely disseminated), kaolin inclusions .....	40	40
Clay: yellow, sandy, limonitic .....	25	65
Limonite prominent at 55-60.		
Sand: as above .....	5	70

#### Miocene (Undifferentiated):

Clay: olive-green, sandy, somewhat limonitic, phosphatic, sandier at depth .....	15	85
Sand: fine to coarse-grained, phosphatic .....	20	105
Clay: gray to turquoise-blue, somewhat indurated, tough, sandy, phosphatic, cherty; interbedded limestone, light-gray to white, very sandy, sparsely phosphatic; claystone, light-		

	Thickness (feet)	Depth (feet)
gray, sandy, cherty, sparsely phosphatic .....	90	195
Claystone prominent at 180-185.		
Limestone, light-gray to white, very sandy, sparsely phosphatic at 145-160.		
Brown phosphatic pebbles abundant 185-190.		
Clay: white, calcareous, very sandy, fossiliferous (bryozoan remains and Foraminifera) .....	10	205
<i>Elphidium?</i> sp., <i>Rotalia</i> sp. at 195-200.		
Dolomitic limestone: light-brown, dense, saccharoidal, sandy.....	23	228
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, extremely dense (highly calcitized), somewhat saccharoidal, fossiliferous (macroshells, bryozoan remains, and Foraminifera) .....	147	375
<i>Quinqueloculina</i> sp. at 230-235.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 260-265.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, massive, somewhat calcitized, fossiliferous (bryozoan remains, macroshells, and Foraminifera) .....	50	425
<i>Operculinoides floridensis</i> , <i>Operculinoides</i> sp., <i>Lepidocyclina</i> sp. at 375-380.		
<i>Gypsina globula</i> at 395-400.		
<i>Pseudophragmina flintensis</i> , <i>Lepidocyclina</i> sp. at 400-405.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	70	70
Miocene (undifferentiated) .....	158	228
Oligocene (undifferentiated) .....	147	375
Upper Eocene (Ocala limestone) .....	50	425
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained .....	20	105
Limestone .....	197	425

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## LOWNDES COUNTY

Location: Barrett  
 Owner: Fred Schroer  
 Driller: Winter Hardware Company  
 Drilled: November 1941

Well No.: GGS 24

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: red, sandy, limonitic, finely phosphatic .....	60	60
Clay: ochre to yellow, sandy, abundantly limonitic .....	20	80
Clay: dark-green, very sandy, finely phosphatic .....	20	100
<b>Miocene (Undifferentiated):</b>		
Clay: light-gray to white, indurated, very sandy, carbonaceous, cherty; interbedded limestone, white, sandy .....	100	200
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	100	100
Miocene (undifferentiated) .....	100	200

**Potential Water-Bearing Zones:**

None observed to total depth (200).

## LOWNDES COUNTY

Location: Valdosta  
 Owner: No. 1 J. W. Holloway  
 Driller: Winter Hardware Company  
 Drilled: November 1941

Well No.: GGS 27  
 Elev.: 250

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic .....	10	20
Clay: ochre, very sandy, limonitic .....	20	40
Sand: fine to medium-grained, argillaceous, inclusions of kaolin .....	20	60
<b>Miocene (Undifferentiated):</b>		
Sand: fine to medium-grained, argillaceous; clay, gray, indurated, sandy, phosphatic, cherty; limestone, white, dense (much calcitized), sandy, carbonaceous .....	20	80



	Thickness (feet)	Depth (feet)
Clay and limestone: as above .....	20	100
Limestone: white, sandy; and clay, gray, indurated, sandy.....	20	120
Clay: light-gray, indurated, sandy; and limestone, as above.....	20	140
Clay: as above; and dolomitic limestone, light-brown, saccharoidal, sandy .....	20	160
Clay: light-gray to pale-green, sandy; and dolomitic limestone, as above .....	20	180

**Oligocene (Undifferentiated):**

Limestone: light-brown to light-gray, dense (highly calcitized), somewhat dolomitized (?), fossiliferous (Foraminifera, macro-shells and bryozoan remains) .....	200	380
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*Miliolidae* prominent at 200-220.

*Dictyoconus*<sup>1</sup> sp. at 220-240.

**Upper Eocene(?): Jackson Group: Ocala Limestone:**

Limestone: light-gray, dense (much calcitized), fossiliferous (bryozoan remains and Foraminifera) .....	20	400
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*Operculinoides* sp. at 380-400.

**Summary:**

Pliocene to Recent (undifferentiated) .....	60	60
Miocene (undifferentiated) .....	120	180
Oligocene (undifferentiated) .....	200	380
Upper Eocene(?) (Ocala limestone) .....	20	400

**Potential Water-Bearing Zones:**

Limestone .....	220	400
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**LOWNDES COUNTY**

Location: 3 mi. west of Valdosta

Well No.: GGS 40

Owner: No. 1 Abligard

Driller: Winter Hardware Company

Drilled: April 1943

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, finely phosphatic, somewhat indurated; clay, ochre, sandy .....	20	20
Clay: gray to greenish-gray, sandy .....	20	40

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: gray to greenish-gray, sandy, phosphatic .....	20	60
Clay: as above, but much sandier .....	20	80
Claystone (indurated clay): pale-green, phosphatic, sandy, cherty .....	20	100
Sand: fine to coarse-grained, somewhat silicified; and clay- stone, as above .....	40	140
Limestone: white, rather soft, sandy .....	60	200

**Summary:**

Pliocene to Recent (undifferentiated) .....	40	40
Miocene (undifferentiated) .....	160	200

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	40	140
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**LOWNDES COUNTY**

Location: 8 mi. west of Valdosta  
 Owner: No. 1 C. C. Giddens  
 Driller: Winter Hardware Company  
 Drilled: January 1943

Well No.: GGS 42

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: red to purple, sandy .....	20	20
Clay: ochre, very sandy, abundantly limonitic .....	20	40
<b>Miocene (Undifferentiated):</b>		
Clay: light-gray, somewhat indurated, sandy, phosphatic, cherty	40	80
Clay: as above; limestone, white, sandy .....	20	100
Limestone: white, sandy; clay, as above .....	40	140
Claystone: pale-green, cherty .....	20	160

**Oligocene (Undifferentiated):**

Claystone: as above; limestone, light-brown to cream, rather dense (calcitized), fossiliferous (Foraminifera) .....	60	220
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*Quinqueloculina* sp., *Dictyoconus*<sup>1</sup> sp. at 180-200.

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	40	40
Miocene (undifferentiated) .....	120	160
Oligocene (undifferentiated) .....	60	220

**Potential Water-Bearing Zones:**

Limestone .....	30	220
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**LOWNDES COUNTY**

Location: 8 mi. north of Valdosta

Well No.: GGS 47

Owner: No. 1 Walter Todd

Driller: Winter Hardware Company

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: light-gray to pink, very sandy, arkosic .....	10	20
<b>Miocene (Undifferentiated):</b>		
Clay: ochre, sandy, phosphatic .....	40	60
Sand: fine to medium-grained, angular, phosphatic .....	40	100
Clay: light-gray to pale-green, sandy, cherty; and limestone, white, sandy, much leached .....	20	120
Dolomitic limestone: light-brown, saccharoidal .....	100	220

**Summary:**

Pliocene to Recent (undifferentiated) .....	20	20
Miocene (undifferentiated) .....	200	220

**Potential Water-Bearing Zones:**

Sand: fine to medium-grained .....	40	100
Dolomitic limestone .....	100	220

**LOWNDES COUNTY**

Location: In Bemiss

Well No.: GGS 78

Owner: No. 1 T. M. Dasher

Elev.: 251

Driller: Winter Hardware Company

Drilled: 1941

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: pink, sandy, finely phosphatic .....	40	40
Clay: ochre, sandy, abundantly limonitic .....	20	60

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: ochre to dark green, sandy, phosphatic .....	20	80
Sand: medium-grained .....	20	100
Sand: fine-grained, phosphatic; limestone, white, sandy .....	40	140
Clay: light-gray to pale-green, sandy; limestone, as above.....	40	180

**Oligocene (Undifferentiated):**

Sand: fine to coarse-grained, phosphatic; limestone, gray to cream, dense (much calcitized), sandy, fossiliferous at depth (macroshells, echinoid spines, and Foraminifera) .....	60	240
<i>Quinqueloculina</i> sp. at 200-240.		
No samples .....	20	260
Limestone: cream, soft, fossiliferous (Foraminifera) .....	18	278

**Summary:**

Pliocene to Recent (undifferentiated) .....	60	60
Miocene (undifferentiated) .....	120	180
Oligocene (undifferentiated) .....	98	278

**Potential Water-Bearing Zones:**

Sand: medium-grained .....	20	100
Limestone .....	18	278

**LOWNDES COUNTY**

Location: Bemiss  
 Owner: No. 1 Mount Zion School  
 Drilled: 1941

Well No.: GGS 79  
 Elev.: 250

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: ochre, sandy, abundantly limonitic .....	20	20
Clay: ochre, very sandy, finely phosphatic, argillaceous, containing inclusions of kaolin .....	20	40
<b>Miocene (Undifferentiated):</b>		
Clay: as above, but phosphatic .....	10	50
Clay: light-gray to pale-green, very sandy, phosphatic .....	20	70
Sand: fine to medium-grained, somewhat argillaceous, phosphatic .....	10	80

	Thickness (feet)	Depth (feet)
Clay: light-gray, very sandy, phosphatic; limestone, white, sandy, much leached .....	10	90
Sand: fine to medium-grained; limestone, white, sandy, cherty..	10	100
Limestone: dense (much calcitized), sandy .....	20	120
Sand: fine to coarse-grained, angular, phosphatic; limestone, as above .....	60	180

**Oligocene (Undifferentiated):**

Limestone: gray to light-brown, somewhat dolomitized and saccharoidal; limestone, cream, dense (much calcitized), nodular, fossiliferous (Foraminifera) .....	20	200
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*Quinqueloculina* sp. at 180-200.

**Summary:**

Pliocene to Recent (undifferentiated) .....	40	40
Miocene (undifferentiated) .....	140	180
Oligocene (undifferentiated) .....	20	200

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	30	150
Limestone .....	20	200

**LOWNDES COUNTY**

Location: Valdosta  
Owner: City of Valdosta  
Drilled: 1947

Well No.: GGS 173  
Elev.: 230<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, carbonaceous, limonitic .....	2	2
Clay: ochre to red (mottled), sandy, abundantly limonitic .....	18	20
Clay: light-gray to pink (mottled), sandy; limestone, white, dense (much calcitized), sandy .....	20	40
Clay: ochre, sandy, limonitic; limestone, as above .....	30	70
Clay and limestone: as above, containing inclusions of kaolin.....	20	90

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay and limestone: as above; clay, pale-green, sandy, phosphatic	40	130
Limestone: white, sandy, cherty .....	20	150
Limestone: as above; interbedded clay, dark-green to turquoise-blue, indurated .....	40	190
Dolomitic limestone: light-brown, saccharoidal, sandy .....	5	195

**Oligocene (Undifferentiated):**

Dolomitic limestone: as above; and limestone, light-gray, very dense (highly calcitized), cherty, nodular, fossiliferous at depth .....	175	370
<i>Quinqueloculina</i> sp., <i>Dictyoconus</i> <sup>2</sup> sp. at 205-235.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white to cream, much calcitized, massive, fossiliferous (bryozoan remains and Foraminifera); interbedded dolomitic limestone .....	390	760
<i>Gypsina globula</i> , <i>Operculinoides</i> sp. at 370-390.		
Dolomitic limestone at 450-530 and 550-570.		
<i>Amphistegina pinarensis</i> var. at 590-610.		
Gypsiferous crystals common at 650-670.		
Dolomitic limestone at 670-710.		

**Middle Eocene: Claiborne Group (Undifferentiated):**

Limestone: light-gray, extremely dense (highly calcitized), massive, somewhat nodular, fossiliferous (bryozoan remains and Foraminifera); interbedded dolomitic limestone, dark-brown, saccharoidal .....	58	818
<i>Miliolidae</i> prominent at 760-770.		
<i>Asterocyclina</i> sp. at 800-810.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	90	90
Miocene (undifferentiated) .....	105	195
Oligocene (undifferentiated) .....	175	370
Upper Eocene (Ocala limestone) .....	390	760
Middle Eocene (Claiborne group, undifferentiated) .....	58	818

**Potential Water-Bearing Zones:**

Limestone .....	300	450
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<sup>2</sup>Reworked (?) fossil of middle Eocene age.

## LOWNDES COUNTY

Location: 4 mi. south of Lake Park  
 Owner: No. 1 U.S. Bureau of Fisheries  
 Driller: W. R. McGrew  
 Drilled: 1929

Well No.: GGS 179  
 Elev.: 145

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, arkosic .....	18	18
Sand: fine to medium-grained, finely phosphatic, argillaceous at depth .....	42	60

**Miocene(?) (Undifferentiated):**

Clay: light-gray, indurated, sandy, cherty .....	15	75
No samples .....	20	95

**In Oligocene (Undifferentiated):**

Limestone: light-gray, dense (highly calcitized), nodular, fossiliferous (Foraminifera) .....	113	208
<i>Quinqueloculina</i> sp. at 95-110.		
Dictyoconus <sup>1</sup> sp. common at 200-208.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	60	60
Miocene(?) (undifferentiated) .....	15	75
No samples .....	20	95
In Oligocene (undifferentiated) .....	113	208

**Potential Water-Bearing Zones:**

Limestone .....	113	208
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## LOWNDES COUNTY

Location: 3 mi. southeast of Base (Moody Field), at Ordnance Site  
 Owner: No. 3 Moody Air Field (U.S. Govt.)  
 Driller: Winter Hardware Company

Well No.: GGS 182  
 Elev.: 202

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: mottled, sandy, arkosic, limonitic .....	15	15

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Clay: ochre, abundantly limonitic, sandy, sandier with increased depth .....	15	30
Sand: fine to coarse-grained, finer-grained at depth, angular, arkosic, finely phosphatic .....	15	45

**Miocene (Undifferentiated):**

Sand: as above, but phosphatic .....	10	55
Clay: ochre to dark-green, indurated, sandy, phosphatic .....	10	65
Sand: fine-grained, phosphatic; limestone, white, sandy, much leached .....	10	75
Clay: gray to light-brown, sandy, phosphatic .....	10	85
Sand: fine-grained; limestone, as above .....	10	95
Clay: light-gray, indurated, sandy, cherty at depth; interbedded limestone, white, sandy; and sand, fine to medium-grained, phosphatic .....	55	150
Dolomitic limestone: light-brown, saccharoidal, sandy; sand, as above .....	5	155
Clay: white, very sandy, cherty; dolomitic limestone, as above ..	5	160
Limestone: white, very sandy, cherty, fossiliferous (macroshells and Foraminifera) .....	15	175

*Sorites* sp. at 165-170.

**Oligocene (Undifferentiated):**

Dolomitic limestone: light-brown, saccharoidal; interbedded limestone, dense (highly calcitized), fossiliferous (Foraminifera) .....	25	200
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*Rotalia byramensis* var. at 190-195.

Limestone: cream, dense (highly calcitized), fossiliferous (Foraminifera) .....	48	248
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*Dictyoconus*<sup>1</sup> sp. at 200-205.

**Summary:**

Pliocene to Recent (undifferentiated) .....	45	45
Miocene (undifferentiated) .....	130	175
Oligocene (undifferentiated) .....	73	248

**Potential Water-Bearing Zones:**

Limestone .....	88	248
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<sup>1</sup>Reworked (?) fossil of middle Eocene age.



## LOWNDES COUNTY

Location: Valdosta  
 Owner: No. 1 City of Valdosta  
 Driller: Layne-Atlantic Company  
 Drilled: 1949

Well No.: GGS 198

	Thickness (feet)	Depth (feet)
No samples .....	176	176

**In Miocene (Undifferentiated):**

Limestone: white, sandy; clay, pale-green, indurated, sandy, cherty .....	16	192
Dolomitic limestone: light-brown, dense, saccharoidal, sandy.....	15	207

**Oligocene (Undifferentiated):**

Limestone: cream, very dense (highly calcitized) fossiliferous (bryozoan remains, macroshells, and Foraminifera) .....	154	361
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*Rotalia byramensis* var. at 207-212.

*Dictyoconus*<sup>1</sup> sp. at 212-217.

*Gypsina globula*<sup>1</sup>, *Lepidocyclina*<sup>1</sup> sp., *Operculinoides*<sup>1</sup> sp. at 327-332.

**Summary:**

No samples .....	176	176
In Miocene (undifferentiated) .....	31	207
Oligocene (undifferentiated) .....	154	361

**Potential Water-Bearing Zones:**

Limestone .....	154	361
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## LOWNDES COUNTY

Location: 7 mi. southeast of Valdosta  
 Owner: No. 2 National Container Company  
 Driller: Layne-Atlantic Company  
 Drilled: 1954

Well No.: GGS 356

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, limonitic, arkosic; clay, mottled, sandy .....	10	10
Clay: light-gray to purple, very sandy, limonitic .....	10	20

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, limonitic, arkosic; clay, ochre, sandy .....	13	33
Clay: ochre, very sandy, abundantly limonitic .....	3	36
Sand: fine to medium-grained, angular, argillaceous, containing inclusions of kaolin .....	14	50
Sand: coarse-grained, arkosic .....	5	55

**Miocene (Undifferentiated):**

Clay: pale-green to turquoise to ochre, sandy, phosphatic .....	25	80
Phosphatic pebbles prominent at 55-70.		
Sand: fine to coarse-grained, phosphatic .....	20	100
Clay: light-gray to white, sandy, indurated (approaching a claystone), cherty at depth .....	40	140
Dolomitic limestone: light-brown, saccharoidal, sandy; and limestone, white, sandy .....	10	150

**Summary:**

Pliocene to Recent (undifferentiated) .....	55	55
Miocene (undifferentiated) .....	95	150

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	20	100
Dolomitic limestone .....	10	150

**LOWNDES COUNTY**

Location: 7 mi. southeast of Valdosta  
 Owner: No. 1 National Container Company  
 Driller: Layne-Atlantic Company  
 Drilled: 1954

Well No.: GGS 404

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: pale-green to ochre to red (mottled), very sandy, limonitic .....	21	21
Clay: ochre, sandy .....	6	27
Sand: fine to medium-grained, argillaceous, angular .....	25	52

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green to brown (somewhat mottled), cherty, sandy.....	8	60
Sand: fine-grained, phosphatic; clay, light-gray, somewhat indurated, sandy .....	5	65
Clay: light-gray, somewhat indurated, phosphatic, sandy .....	13	78
Sand: fine to medium-grained, phosphatic, argillaceous at depth	22	100
Clay: light-gray, sandy; indurated clay, white, sandy, carbonaceous; interbedded limestone at depth, white, sandy.....	33	133
Clay: pale-green to turquoise, somewhat indurated, sandy, cherty .....	17	150
Clay: as above; dolomitic limestone, light-brown, saccharoidal, sandy .....	10	160
Clay: white, indurated, sandy, carbonaceous; limestone, white, sandy, fossiliferous (Foraminifera) .....	20	180
<i>Archaias</i> sp. at 160-165.		

**Oligocene (Undifferentiated):**

Limestone: dense (highly calcitized), nodular, fossiliferous (macroshells and some Foraminifera) .....	136	316
<i>Dictyoconus</i> <sup>1</sup> sp., <i>Rotalia byramensis</i> var. at 180-190.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	52	52
Miocene (undifferentiated) .....	128	180
Oligocene (undifferentiated) .....	136	316

**Potential Water-Bearing Zones:**

Sand: fine to medium-grained .....	22	100
Limestone .....	136	316

**LOWNDES COUNTY**

Location: 4 mi. north of Post Office in Valdosta  
 Owner: No. 1 Schroer Plant Farm  
 Driller: Duval Drilling Company

Well No.: GGS 412  
 Elev.: 250

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, gray to yellow, argillaceous, limonitic .....	5	5

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Clay: light-gray to purple (mottled), sandy, finely disseminated phosphatic grains and kaolin inclusions .....	65	70
<b>Miocene (Undifferentiated):</b>		
Clay: yellow, olive-green at depth, sandy, phosphatic (light-gray pebbles); some sand, fine-grained .....	48	118
Claystone: white, sandy, abundant chert .....	5	123
Clay: pale-green, sandy, phosphatic; limestone, white, dense (much calcitized), sandy, somewhat carbonaceous .....	27	150
Clay: turquoise, indurated, tough, sandy, light-gray to transparent phosphatic? pebbles .....	37	187
Clay: turquoise, indurated, sandy; limestone, white to light-brown (dolomitized) at depth, very sandy, fossiliferous at depth (macroshells and bryozoan remains) .....	49	236
Macroshells at 200-207.		
Dolomitic limestone at 207-226.		
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-brown to cream at depth, fossiliferous at depth .....	127	363
<i>Quinqueloculina</i> sp. at 236-246.		
<i>Rotalia bryamensis</i> var. at 246-266.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, dense (much calcitized,) fossiliferous (macroshells and some Foraminifera); interbedded dolomitic limestone in certain zones .....	137	500
Dolomitic limestone, dark-brown, saccharoidal at 363-370.		
<i>Operculinoides</i> sp. at 370-385.		
<i>Pseudophragmina flintensis</i> , <i>Gypsina globula</i> at 400-420.		
<i>Camerina striatoreticulata</i> (abundant), <i>Asterocyclina nas-sauensis</i> at 440-459.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	70	70
Miocene (undifferentiated) .....	166	236
Oligocene (undifferentiated) .....	127	363
Upper Eocene (Ocala limestone) .....	137	500
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	210	460

## LOWNDES COUNTY

Location: In Valdosta  
 Owner: No. 1 City of Valdosta  
 Driller: M. M. Gray Drilling Company  
 Drilled: 1955

Well No.: GGS 500  
 Elev.: 250

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, coarser-grained at depth, arkosic, limonitic, finely disseminated phosphate grains, inclusions of kaolin; interbedded clay, yellow to olive-green to purple (mottled), sandy, limonitic .....	50	50
<b>Miocene (Undifferentiated):</b>		
Clay: pale-green to turquoise, light-gray to white at depth, somewhat indurated at depth, sandy, cherty, carbonaceous, phosphatic (light-gray to brown pebbles); interbedded limestone, white, sandy, carbonaceous .....	120	170
Light-gray to brown phosphatic pebbles prominent at 50-60. 50-60.		
Dolomitic limestone, light-brown, saccharoidal, sandy.....	10	180
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, dense (much calcitized), nodular, fossiliferous (Foraminifera) .....	195	375
<i>Rotalia</i> sp. at 190-200.		
<i>Quinqueloculina</i> sp., <i>Dictyoconus</i> <sup>1</sup> sp. at 230-240.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray, fossiliferous (bryozoan remains and some Foraminifera) .....	25	400
<i>Operculinooides</i> sp. at 370-380.		
<i>Operculinooides</i> sp. common, <i>Lepidocyclina</i> sp. at 390-400.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	50	50
Miocene (undifferentiated) .....	130	180
Oligocene (undifferentiated) .....	195	375
Upper Eocene (Ocala limestone) .....	25	400

**Potential Water-Bearing Zones:**

Limestone .....	220	400
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<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## LOWNDES COUNTY

Location: In Valdosta  
 Owner: No. 1 City of Valdosta  
 Driller: M. M. Gray Drilling Company  
 Drilled: 1955

Well No.: GGS 511

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: light-gray to yellow to purple (mottled), sandy, limonitic; interbedded sand, fine to medium-grained, phosphatic (finely disseminated grains), inclusions of kaolin .....	70	70
<b>Miocene (Undifferentiated):</b>		
Clay: white to light-gray, green to turquoise at depth, somewhat indurated, sandy, carbonaceous, phosphatic; interbedded limestone, white, dense (much calcitized), sandy, phosphatic .....	120	190
Light-gray to brown phosphatic pebbles prominent at 80-90.		
Dolomitic limestone: light-brown, dense, saccharoidal .....	20	210
No samples .....	10	220
<b>In Oligocene (Undifferentiated):</b>		
Limestone: light-gray, dense (much calcitized), saccharoidal, cherty .....	100	320
<i>Quinqueloculina</i> sp. at 230-240.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 240-250.		
Dolomitic limestone: brown, saccharoidal .....	30	350
Limestone: as in interval 220-320 .....	25	375
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white to cream, fossiliferous (Foraminifera) .....	25	400
<i>Operculinoides</i> sp. at 370-380.		
<i>Gypsina globula</i> at 380-390.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	70	70
Miocene (undifferentiated) .....	140	210
No samples .....	10	220
In Oligocene (undifferentiated) .....	155	375
Upper Eocene (Ocala limestone) .....	25	400

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	180	400

**McINTOSH COUNTY**

Location: West side of Blackbeard Island, 3.25 mi. south of north end of island, near boat landing Well No.: GGS 84  
 Elev.: 9  
 Owner: No. 4 U.S. Biological Survey (U.S. Govt.)  
 Driller: J. R. Neikirk  
 Drilled: March 1935

	Thickness (feet)	Depth (feet)
No samples .....	355	355

**In Miocene (Undifferentiated):**

Sand: fine to coarse-grained, phosphatic; limestone, yellow, very dense, (much calcitized), sandy, fossiliferous (echinoid and bryozoan remains) .....

	45	400
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**Oligocene (Undifferentiated):**

Limestone: cream, granular (poorly cemented), fossiliferous (Foraminifera) .....

	105	505
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*Rotalia beccarii* var., *Elphidium* sp., *Discorbis subaraucana*, *Textularia adalta*, *Asterigerina* sp., *Cibicides americanus*, *Discorbis assulata* at 400-424.

*Textularia tumidula*, *Rotalia byramensis* var., *Nonion alabamensis*, *Nonionella hantkeni* var., *Reussella oligocenica* 445-455.

*Spiroplectammina mississippiensis* var. *alabamensis*, *Reussella byramensis*, *Baggina xenoula*, *Rotalia mexicana* var. at 486-505.

Limestone: cream to reddish-brown, rather massive (much calcitized), nodular, fossiliferous (bryozoan remains, mega-fossils, and Foraminifera) .....

	40	545
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*Siphonina advena*, *Dictyoconus*<sup>1</sup> sp., *Reussella byramensis*, *Reussella oligocenica*, *Rotalia mexicana* var., *Discorbis* sp., *Quinqueloculina* sp., *Gypsina globula*<sup>1</sup> at 505-565.

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray, crystalline (much calcitized), fossiliferous (abundant bryozoan remains and some Foraminifera)	70	615
<i>Operculinoides</i> sp. at 545-555.		
<i>Operculinoides floridensis</i> at 555-570.		
<i>Asterocyclina nassauensis</i> , <i>Gypsina globula</i> , <i>Argyrotheca</i> sp. at 580-615.		
<i>Gypsina globula</i> , <i>Asterocyclina nassauensis</i> , <i>Lingulina</i> sp., <i>Baggina xenoula</i> , <i>Eponides jacksonensis</i> , <i>Nonion planatus</i> , <i>Argyrotheca</i> sp. at 615-645.		
Limestone: white, densely crystalline (highly calcitized), fossiliferous (abundant bryozoan remains and Foraminifera).....	96	711

**Summary:**

No samples .....	355	355
In Miocene (undifferentiated) .....	45	400
Oligocene (undifferentiated) .....	145	545
Upper Eocene (Ocala limestone).....	166	711

**Potential Water-Bearing Zones:**

Limestone .....	166	711
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**McINTOSH COUNTY**

Location: Northeastern part of Harris Neck, 1,760 ft. south of Newport River  
 Owner: No. 1 Harris Neck Airport (U.S. Govt.)  
 Driller: Stevens Southern  
 Drilled: July 1942

Well No.: GGS 88  
 Elev.: 16

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular, arkosic .....	78	78
Sand: fine-grained, finely disseminated phosphatic grains; and clay, dark-gray, carbonaceous, micaceous .....	122	200
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-green, abundantly phosphatic, cherty, sandy, sandier with depth .....	135	335
Sand: medium to coarse-grained, phosphatic, fossiliferous (echinoid and bryozoan remains, and macroshells).....	35	370



	Thickness (feet)	Depth (feet)
Limestone: white, dense (much calcitized), very sandy, coarsely phosphatic; sand, as above.....	5	375
No samples .....	75	450

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: light-gray, crystalline (much calcitized), fossiliferous (abundant bryozoan remains and some Foraminifera); soft limestone, cream, somewhat nodular in texture.....	115	565
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**Summary:**

Pliocene to Recent (undifferentiated).....	200	200
In Miocene (undifferentiated).....	175	375
No samples .....	75	450
In upper Eocene (Ocala limestone) .....	115	565

**Potential Water-Bearing Zones:**

Sand: medium to coarse-grained.....	35	370
Limestone .....	115	565

**McINTOSH COUNTY**

Location: 5 mi. northwest of Darien  
 Owner: No. 1 Charles Fountain  
 Driller: Woodrow Sapp Drilling Company  
 Drilled: 1959

Well No.: GGS 596  
 Elev.: 15

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, subangular to subrounded, somewhat phosphatic, micaceous; interbedded clay, brownish-green to greenish-gray, sandy, micaceous.....	265	265
<b>Miocene (Undifferentiated):</b>		
Clay: dark-olive-green, somewhat blocky, tough, phosphatic at depth, cherty at certain levels.....	75	340
Sand: fine to medium-grained, subangular to subrounded, phosphatic .....	50	390
Clay: dark-greenish-gray, sandy, phosphatic.....	50	440
Limestone: cream to light-brown, rather dense, calcitized, sandy, phosphatic .....	10	450

	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained, subangular, phosphatic; interbedded clay and limestone, as above.....	40	490
Limestone: cream, sandy, phosphatic, fossiliferous (fragments and impressions of megafossils).....	20	510
Sand: fine to coarse-grained, subangular to subrounded.....	80	590

**Oligocene (Undifferentiated):**

Limestone: cream, nodular, somewhat granular, fossiliferous (bryozoan remains and Foraminifera).....	40	630
<i>Rotalia mexicana</i> var. at 590-600.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white, much calcitized, crystalline, fossiliferous (abundant macroshells, bryozoan remains, and some Foraminifera).....	150	780
<i>Lepidocyclina</i> sp. at 630-640.		
<i>Operculinoides</i> sp. at 640-650.		
<i>Pseudophragmina flintensis</i> , <i>Asterocyclina</i> sp. at 720-730.		

**Summary:**

Pliocene to Recent (undifferentiated).....	265	265
Miocene (undifferentiated).....	325	590
Oligocene (undifferentiated).....	40	630
Upper Eocene (Ocala limestone).....	150	780

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	45	120
Sand: fine to medium-grained.....	50	390
Sand: fine to coarse-grained.....	80	590
Limestone.....	150	780

**MACON COUNTY**

Location: 40' west of Highway 90, north side of Beaver Creek, in Montezuma  
 Owner: No. 1 City of Montezuma  
 Driller: Layne-Atlantic Company  
 Drilled: 1938

Well No.: GGS 60  
 Elev.: 280

	Thickness (feet)	Depth (feet)
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Sand: medium to coarse-grained, limonitic.....	65	65
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: as above; and clay, brown, lignitic.....	20	85

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Providence Sand:</b>		
Sand: fine to coarse-grained, limonitic, pyritiferous, lignitic, containing fragments of fossil wood.....	57	142
Limestone: gray, dense, sandy, crystalline (in texture), fossil- iferous (macroshells); indurated sand at depth .....	64	206
<i>Inoceramus</i> prisms prominent at 180-206.		
<b>Ripley and Cusseta (Undifferentiated):</b>		
Clay: light- to dark-bluish-gray, micaceous, sandy, pyritifer- ous, fossiliferous (Foraminifera).....	62	268
No samples .....	22	290
Sand: fine to coarse-grained; limestone, gray, dense, sandy; and clay, as above.....	112	402
<b>Blufftown Formation:</b>		
Sand: fine to coarse-grained; and clay, brown, fissile, highly micaceous, lignitic .....	13	415
Sand: fine to coarse-grained; interbedded clay, brown, fissile, splintery, highly micaceous, lignitic.....	121	536
<b>Summary:</b>		
Lower Eocene (Wilcox group, undifferentiated).....	65	65
Paleocene (Clayton formation).....	20	85
Upper Cretaceous (Providence sand).....	121	206
Upper Cretaceous (Ripley and Cusseta, undifferentiated).....	196	402
Upper Cretaceous (Blufftown formation).....	134	536
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	57	142
Sand: fine to coarse-grained.....	26	206
Sand: fine to coarse-grained.....	33	445
Sand: fine to coarse-grained.....	30	536
<b>Remarks:</b>		
Well contains numerous sample gaps, hence complete resume of potential water- bearing sands cannot be picked.		

## MACON COUNTY

Location: At old Water Works Plant, approximately 200 yards southeast of southeast corner of R.R. Station in Montezuma

Well No.: GGS 145  
Elev.: 277

Owner: No. 2 City of Montezuma

Driller: Layne-Atlantic Company

Drilled: April 1947

	Thickness (feet)	Depth (feet)
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Sand: fine to coarse-grained; interbedded clay, light-gray, fossiliferous at certain horizons.....	66	66
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: chocolate, blocky, lignitic; sand, fine to medium-grained....	15	81
<b>Upper Cretaceous: Providence Sand:</b>		
Sand: fine to coarse-grained; interbedded clay (or kaolin), white to gray to dark-gray, micaceous, sandy.....	109	190
<b>Ripley and Cusseta (Undifferentiated):</b>		
Clay: gray, micaceous, silty, fossiliferous (Foraminifera)..... <i>Anomalina pseudopapillosa, Cibicides harperi</i> at 190-268.	78	268
Limestone: gray, dense, crystalline (in texture), sandy, fossiliferous; indurated sand at depth.....	31	299
Clay: gray, micaceous, sandy.....	97	396
Sand: fine to coarse-grained.....	49	445
<b>In Blufftown Formation:</b>		
Sand: fine to coarse-grained; interbedded clay, dark-brown, fissile, somewhat splintery, highly micaceous, lignitic.....	82	527
Clay: dark-brown, fissile, splintery, highly micaceous, lignitic, sandy; sand, fine to coarse-grained.....	91	618
<b>Summary:</b>		
Lower Eocene (Wilcox group, undifferentiated).....	66	66
Paleocene (Clayton formation).....	15	81
Upper Cretaceous (Providence sand).....	109	190
Upper Cretaceous (Ripley and Cusseta, undifferentiated).....	255	445
Upper Cretaceous (in Blufftown formation).....	173	618

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	39	120
Sand: fine to coarse-grained.....	21	299
Sand: fine to coarse-grained.....	49	445
Sand: fine to coarse-grained.....	20	527

**MACON COUNTY**

Location: In Marshallville  
 Owner: No. 3 City of Marshallville  
 Driller: Layne-Atlantic Company  
 Drilled: August 1951

Well No.: GGS 229  
 Elev.: 493  
 (derrick floor)

	Thickness (feet)	Depth (feet)
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Sand: fine to medium-grained, limonitic; clay, mottled, sandy ...	22	22
Sand: fine to coarse-grained; clay (or kaolin), white, mica- ceous, somewhat sandy.....	36	58
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: gray to tan, hackly; some sand, coarse-grained, limonitic..	20	78
<b>Upper Cretaceous: Providence Sand:</b>		
Sand: fine to coarse-grained, limonitic; clay (or kaolin), gray, micaceous, somewhat sandy.....	19	97
Clay (or kaolin): white to gray to purple (mottled), mica- ceous, somewhat sandy.....	15	112
Sand: fine to coarse-grained, limonitic; clay (or kaolin), as above .....	53	165
<b>Ripley and Cusseta (Undifferentiated):</b>		
Clay: dark-gray, sandy, micaceous, carbonaceous .....	24	189
Sand: coarse-grained .....	14	203
Clay: dark-gray, sandy, micaceous.....	60	263
Sand: fine to coarse-grained .....	17	280
Sand: fine to coarse-grained; interbedded clay (or kaolin), white to gray to red (mottled), micaceous, somewhat sandy....	136	416
Sand: fine to coarse-grained.....	60	476

	Thickness (feet)	Depth (feet)
<b>Blufftown and Eutaw (Undifferentiated):</b>		
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
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**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)
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Sand: fine to coarse-grained, yellow, argillaceous .....	7	7
<b>Paleocene: Midway Group: Clayton Formation:</b>		
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)
<b>Upper Cretaceous: Providence Sand:</b>		
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
<b>Ripley Formation:</b>		
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
<b>Cusseta Sand:</b>		
Sand: fine to coarse-grained, angular, arkosic; interbedded clay (or kaolin), gray, somewhat sandy, micaceous .....	55	403
<b>Blufftown Formation:</b>		
Sand: fine to coarse-grained, arkosic; interbedded clay, dark-brown, fissile, splintery, highly micaceous, lignitic, pyritiferous .....	111	504
<b>Summary:</b>		
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
<b>Potential Water-Bearing Zones:</b>		
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

## MACON COUNTY

Location: 8-10 miles north of Montezuma  
 Owner: No. 1 Norris Cattle Company  
 Driller: Layne-Atlantic Company  
 Drilled: 1954

Well No.: GGS 422

	Thickness (feet)	Depth (feet)
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: brick-red, sandy, limonitic.....	16	16
Sand: fine to coarse-grained, angular, somewhat phosphatic, limonitic .....	58	74
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: black, fissile, carbonaceous, sparsely glauconitic.....	10	84
Sand: fine to coarse-grained, angular, limonitic, pyritiferous, sideritic .....	10	94
Clay: light-gray; limestone, gray, dense, crystalline (much calcitized), sandy, fossiliferous (macroshells and some Foraminifera); sand, as above.....	21	115
<i>Cibicides newmanae, Eponides lotus</i> at 94-105.		
<b>Upper Cretaceous: Providence Sand:</b>		
Clay: black, micaceous, lignitic; sand, fine to coarse-grained, arkosic, pyritiferous, sideritic.....	11	126
Sand: fine to coarse-grained, angular, arkosic, limonitic; in- terbedded clay, dark-gray, silty, micaceous, pyritiferous.....	51	177
<b>Ripley Formation:</b>		
Clay: dark-gray, sandy, micaceous, pyritiferous, sideritic, fossiliferous at certain horizons (macroshells); interbedded sand, fine to coarse-grained, limonitic.....	215	392
Siderite abundant at 228-249.		
Macroshells present at 249-260.		
<b>Summary:</b>		
Lower Eocene (Wilcox, undifferentiated).....	74	74
Paleocene (Clayton formation).....	41	115
Upper Cretaceous (Providence sand).....	62	177
Upper Cretaceous (Ripley formation).....	215	392
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	51	177
Sand: fine to coarse-grained.....	61	392



## MARION COUNTY

Location: 4.35 mi. south of junction of Highways 41 and 26 in Buena Vista, east side of Highway 41, west of side of small dairy barn Well No.: GGS 329  
 Elev.: 657  
 Owner: No. 1 M. B. Wells, Jr.  
 Driller: Southeastern Drilling Company  
 Drilled: November 1952

No samples .....	20	20
<b>In Paleocene: Midway Group: Clayton Formation:</b>		
Clay: black, fissile.....	8	28
<b>Upper Cretaceous: Providence Sand:</b>		
Sand: fine to coarse-grained, arkosic, angular .....	6	34
Kaolin: white to light-gray to pink (mottled), very sandy, micaceous; interbedded sand, fine to medium-grained, angular .....	46	80
Sand: fine to coarse-grained; clay, as above (latter "cave" from above) .....	60	140
<b>Ripley Formation:</b>		
Marl: mottled, bluish-gray at depth, micaceous, silty, sideritic, glauconitic, fossiliferous (Foraminifera) .....	182	322
<i>Cibicides harperi</i> at 200-220.		
<i>Gaudryina rudita</i> , <i>Cibicides harperi</i> at 240-260.		

## Summary:

No samples .....	20	20
In Paleocene (Clayton formation) .....	8	28
Upper Cretaceous (Providence sand) .....	112	140
Upper Cretaceous (Ripley formation) .....	182	322

## Potential Water-Bearing Zones:

Sand: fine to coarse-grained .....	60	140
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## MARION COUNTY

Location: At Water Works, in Buena Vista  
 Owner: No. 2 City of Buena Vista  
 Driller: Layne-Atlantic Company  
 Drilled: August 1948

Well No.: GGS 347  
 Elev.: 633

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Providence Sand:</b>		
Sand: fine to coarse-grained, angular, limonitic.....	34	34
<b>Ripley and Cusseta (Undifferentiated):</b>		
Marl: bluish-gray, sandy, micaceous.....	40	74
Marl: as above; limestone, gray, dense, crystalline, very sandy, fossiliferous (macroshells).....	54	128
Marl: bluish-gray, silty, micaceous, sideritic, fossiliferous (Ostracods and Foraminifera).....	67	195
<i>Cibicides harperi, Anomalina clementiana, Loxostoma plai- tum, Gaudryina rudita</i> at 128-145.		
Sand: fine to coarse-grained, angular, arkosic; interbedded clay (or kaolin), gray to red (mottled), micaceous.....	115	310

**Summary:**

Upper Cretaceous (Providence sand).....	34	34
Upper Cretaceous (Ripley and Cusseta, undifferentiated).....	276	310

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	115	310
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## MARION COUNTY

Location: In Buena Vista  
 Owner: No. 3 City of Buena Vista  
 Driller: Southeastern Drilling Company  
 Drilled: July 1954

Well No.: GGS 388  
 Elev.: 640

	(feet) Thickness	(feet) Depth
<b>Upper Cretaceous: Providence Sand:</b>		
Sand: fine to coarse-grained, angular, arkosic, limonitic, contains inclusions of kaolin.....	35	35

	Thickness (feet)	Depth (feet)
<b>Ripley and Cusseta (Undifferentiated):</b>		
Marl: gray to red (mottled), micaceous, sandy.....	5	40
Marl: bluish-gray, micaceous, sandy, sideritic, fossiliferous (Foraminifera) .....	48	88
Sideritic nodules prominent at 50-80.		
<i>Haplophragmoides</i> sp., <i>Gaudryina rudita</i> , <i>Anomalina clem- entiana</i> , <i>Loxostoma plaitum</i> at 70-80.		
Limestone: gray, dense, crystalline, very sandy.....	12	100
Marl: bluish-gray, micaceous, sandy.....	90	190
Sand: coarse-grained, angular, limonitic.....	85	275
Marl: as above.....	17	292

**Summary:**

Upper Cretaceous (Providence sand).....	35	35
Upper Cretaceous (Ripley and Cusseta, undifferentiated).....	257	292

**Potential Water-Bearing Zones:**

Sand: coarse-grained .....	85	275
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**MARION COUNTY**

Location: 6-7 mi. southwest of Buena Vista  
 Owner: No. 2 E. N. Murray  
 Driller: Southeastern Drilling Company  
 Drilled: December 1954

Well No.: GGS 409  
 Elev.: 562

	Thickness (feet)	Depth (feet)
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: red, very sandy, limonitic.....	28	28
<b>Upper Cretaceous: Providence Sand:</b>		
Sand: coarse-grained, arkosic.....	10	38
Clay: yellow, very sandy, limonitic.....	2	40
Sand: fine to coarse-grained, limonitic.....	10	50
Sand: fine to medium-grained, angular; interbedded clay (or kaolin), white, micaceous, sandy.....	75	125

**Ripley and Cusseta (Undifferentiated):**

	Thickness (feet)	Depth (feet)
Marl: bluish-gray, silty, micaceous, pyritiferous, sideritic, glauconitic, fossiliferous (Foraminifera).....	135	260
<i>Anomalina clementiana</i> , <i>Globotruncana</i> sp., <i>Gaudryina rudita</i> at 130-140.		
Sand: fine to coarse-grained, angular; interbedded clay, dark-gray to brown, micaceous, pyritiferous, lignitic.....	120	380

**Summary:**

Paleocene (Clayton formation).....	28	28
Upper Cretaceous (Providence sand).....	97	125
Upper Cretaceous (Ripley and Cusseta, undifferentiated).....	255	380

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	76	366
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**MARION COUNTY**

Location: 2 mi. north of Tazewell, at the "Bryant Place" Well No.: GGS 427  
 Owner: No. 1 Tommy Brock  
 Driller: R. G. Duke  
 Drilled: December 1954

	Thickness (feet)	Depth (feet)
No samples.....	45	45

**In Upper Cretaceous: Tuscaloosa Formation:**

Sand: fine to coarse-grained, limonitic, arkosic; interbedded kaolin, white, micaceous.....	100	145
Sand: coarse-grained, angular.....	15	160
Sand: fine to medium-grained, arkosic.....	5	165

**Summary:**

No samples.....	45	45
In Upper Cretaceous (Tuscaloosa formation).....	120	165

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	25	160
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## MARION COUNTY

Location: 7.5 mi. south of Marion-Talbot County line, east side of Highway 41, north side of dwelling  
 Well No.: GGS 443  
 Elev.: 680  
 Owner: No. 1 James Rush  
 Driller: Southeastern Drilling Company  
 Drilled: August 1955

	Thickness (feet)	Depth (feet)
No samples .....	10	10

**In Upper Cretaceous: Blufftown and Eutaw (Undifferentiated:**

Sand: fine to coarse-grained, angular, arkosic, limonitic; interbedded clay, gray to yellow to brown to red (mottled), micaceous, sandy .....

	244	254
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**Summary:**

No samples .....	10	10
In Upper Cretaceous (Blufftown and Eutaw, undifferentiated)	244	254

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	8	176
Sand: fine to coarse-grained .....	7	234
Sand: fine to coarse-grained .....	3	246
Sand: fine to coarse-grained .....	6	254

**Remarks:**

Additional aquifers occur at still lower levels, i.e. in the more deeply buried Tuscaloosa formation.

## MARION COUNTY

Location: Approximately 4 mi. southeast of Buena Vista, about ½ mi. west of Highway 26, Land Lot 207, Land District 31  
 Well No.: GGS 476  
 Elev.: 600<sup>1</sup>  
 Owner: No. 1 Senator Burgin  
 Operator: Lee Oil and Gas Company  
 Drilled: February 1956

	Thickness (feet)	Depth (feet)
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: brick-red, very sandy, limonitic; inclusions of kaolin, white, sandy, micaceous .....	10	10
No samples .....	10	20

<sup>1</sup>Approximate elevation above sea level.

	Thickness (feet)	Depth (feet)
<b>In Upper Cretaceous: Providence Sand:</b>		
Sand: fine to coarse-grained, subangular, micaceous, limonitic; interbedded clay, light-gray to red (somewhat mottled), sandy, micaceous .....	80	100
Sand: coarse-grained, subangular, arkosic, limonitic; interbedded clay, dark-bluish-gray, sandy, micaceous, pyritiferous; indurated sand, fine to medium-grained, rather dense, crystalline, pyritiferous, micaceous, fossiliferous (mega-fossils) .....	80	180
<b>In Ripley and Cusseta (Undifferentiated):</b>		
Sand: fine to medium-grained, subangular; interbedded clay, red to dark-bluish-gray, sandy, micaceous, pyritiferous, fossiliferous at certain levels (macroshells) .....	250	430
Sand: coarse-grained, subangular; interbedded clay, white to red (mottled), sandy, micaceous .....	50	480
<b>In Blufftown and Eutaw (Undifferentiated):</b>		
Sand: fine to medium-grained, subangular; interbedded clay, dark-brown, somewhat laminated, silty, very micaceous, lignitic, pyritiferous .....	30	510
Clay: dark-brown, laminated, silty, very micaceous, lignitic, pyritiferous, fossiliferous (macroshells, Ostracods and Foraminifera at depth); interbedded sand, fine to medium-grained, subangular, micaceous, pyritiferous, lignitic .....	410	920
Sand: medium-grained, coarser-grained with increased depth, subangular, phosphatic, somewhat arkosic, micaceous, pyritiferous .....	40	960
<b>In Upper Tuscaloosa Formation:</b>		
Sand: coarse-grained, subangular, arkosic, lignitic, containing scattered grains of "rose quartz" .....	110	1,070
Sand: as above but somewhat finer-grained; interbedded kaolin, light-gray to red (mottled), sandy, micaceous .....	80	1,150
<b>In Middle Tuscaloosa Formation:</b>		
Clay: dark-gray to pale-yellowish-green, somewhat iron stained, laminated, sandy, micaceous, carbonaceous; interbedded sand, coarse-grained, subangular, arkosic .....	160	1,310

	Thickness (feet)	Depth (feet)
<b>In Lower Tuscaloosa Formation:</b>		
Sand: coarse-grained, subangular grains of "rose quartz"; interbedded clay, yellowish-green to brick red to purple (mottled), very micaceous, greasy appearing, sandy.....	220	1,530
Sand: as above but finer-grained; interbedded clay, as above .....	60	1,590

**Basement Complex (Undifferentiated):**

Crystalline rock: dark-gray to black, dense, crystalline, biotite gneiss (?) .....	180	1,770
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**Summary:**

Paleocene (Clayton formation).....	10	10
No samples .....	10	20
In Upper Cretaceous (Providence sand).....	160	180
In Upper Cretaceous (Ripley and Cusseta, undifferentiated).....	300	480
In Upper Cretaceous (Blufftown and Eutaw, undifferentiated).....	480	960
In Upper Cretaceous (Tuscaloosa formation).....	630	1,590
Basement complex (undifferentiated).....	180	1,770

**Remarks:**

1. Interval 430-480 probably representative of Cusseta sand.
2. Interval 920-960 possible Eutaw formation restricted.

**MILLER COUNTY**

Location: Below elevated steel reservoir in Colquitt  
 Owner: No. 2 City of Colquitt  
 Driller: W. B. Graham  
 Drilled: June 1946

Well No.: GGS 112  
 Elev.: 169

	Thickness (feet)	Depth (feet)
No samples .....	450	450

**In Lower Eocene: Wilcox Group (Undifferentiated):**

Limestone: white, sandy, coarsely glauconitic, fossiliferous (Foraminifera) .....	70	520
<i>Asterocyclina</i> sp. at 510-520.		
Sand: fine to medium-grained, glauconitic, fossiliferous (Foraminifera) .....	140	660
<i>Eponides dorfi</i> at 600-610.		
Marl: gray, silty, carbonaceous, micaceous.....	50	710
No samples .....	230	940

	Thickness (feet)	Depth (feet)
<b>In Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: gray, crystalline, fossiliferous (Foraminifera) .....	100	1,040
<i>Anomalina midwayensis</i> at 940-950.		
<i>Operculinoides</i> sp. at 1010-1020.		

**Summary:**

No samples .....	450	450
In lower Eocene (Wilcox group, undifferentiated) .....	260	710
No samples .....	230	940
In Paleocene (Clayton formation) .....	100	1,040

**Potential Water-Bearing Zones:**

Limestone .....	100	1,040
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**MITCHELL COUNTY**

Location: In Sale City below elevated steel reservoir  
 Owner: No. 1 Sale City  
 Driller: Gray Well Pump Company  
 Drilled: February 1940

Well No.: GGS 100  
 Elev.: 350<sup>1</sup>

	Thickness (feet)	Depth (feet)
No samples .....	315	315

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white to cream, dense, much calcitized, crystalline, fossiliferous at certain levels (Foraminifera) .....	60	375
<i>Camerina striatoreticulata</i> at 315-330.		
No samples .....	15	390
Limestone: as above; interbedded dolomitic limestone, dark- brown, saccharoidal .....	110	500

**Summary:**

No samples .....	315	315
In upper Eocene (Ocala limestone) .....	185	500

**Potential Water-Bearing Zones:**

Limestone .....	185	500
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<sup>1</sup>Average elevation based on Georgia State Highway Maps.



## MITCHELL COUNTY

Location: About 5.5 mi. east of Pelham, Land Lot 133,  
10th Land District

Well No.: GGS 109

Elev.: 338

Owner: No. 1 J. H. Pullen

(derrick floor)

Driller: Stanolind Oil and Gas Company

Drilled: August 1944

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular, limonitic, somewhat arkosic; interbedded clay, mottled to light-gray, sandy .....	70	70
Clay: pale-green, sandy; some sand as above .....	60	130
Clay and sand: as above; interbedded limestone, white, sandy ...	100	230
Limestone: white, sandy; interbedded clay and sand .....	110	340
Sand: fine to coarse-grained; some clay and limestone .....	20	360
Sand, clay, and limestone: as above; some dolomitic limestone, brown, saccharoidal .....	10	370
<b>Oligocene (Undifferentiated):</b>		
Limestone, clay, and sand: as above; more nodular limestone with depth, cream, rather massive, fossiliferous in certain zones (macroshells, Ostracods, and Foraminifera) .....	25	395
<i>Rotalia byramensis</i> var., at 370-380.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Dolomitic limestone: dark-brown, saccharoidal; interbedded limestone, cream, much calcitized, fossiliferous (macroshells and Foraminifera) .....	315	710
<i>Gypsina globula</i> at 420-430.		
<i>Asterocyclina nassauensis</i> , <i>Camerina striatoreticulata</i> at 450-460.		
Dolomitic limestone: as above .....	80	790
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: light-gray, sandy, coarsely glauconitic, fossiliferous (macroshells, Ostracods, and Foraminifera); interbedded marl, light-gray, finely glauconitic, fossiliferous (Ostracods and Foraminifera); indurated sand, fine to medium grained, light-gray, finely glauconitic .....	145	935
<i>Lepidocyclina (Polylepidina) antillea</i> at 760-770.		
<i>Siphonina claibornensis</i> , <i>Cibicides westi</i> at 860-870.		

	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Limestone: light-gray, sandy, somewhat argillaceous, finely glauconitic, fossiliferous (Foraminifera).....	215	1,150
<i>Valvulineria jacksonensis</i> var. <i>persimilis</i> , <i>Valvulineria danvillensis</i> var. <i>gyroidinoides</i> , <i>Cibicides westi</i> , <i>Cibicides tallahattensis</i> at 1045-1060.		
Dolomitic limestone: dark brown, saccharoidal, coarsely glauconitic .....	45	1,195
<b>In Lower Eocene(?): Wilcox Group (Undifferentiated):</b>		
Indurated sand: fine to medium-grained, coarsely glauconitic, fossiliferous (a coquina).....	30	1,225
No samples .....	30	1,255
Marl: light-gray, somewhat fissile, silty, carbonaceous, micaceous, glauconitic, fossiliferous (some Foraminifera).....	10	1,265
<i>Robulus</i> sp., <i>Eponides dorfi</i> , <i>Alabamina wilcoxensis</i> , <i>Marginalina</i> sp. at 1255-1265.		
Sand: fine to coarse-grained, micaceous, abundantly glauconitic; interbedded marl, as above.....	60	1,325
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: white, dense; interbedded sand, fine-grained, limey (somewhat indurated), finely glauconitic, micaceous, fossiliferous (macroshells and some Foraminifera); clay, light-gray, fissile, glauconitic, fossiliferous (Foraminifera).....	100	1,425
<i>Pseudophragmina stephensoni</i> , <i>Operculinoides catenula</i> at 1335-1350.		
<i>Anomalina acuta</i> at 1395-1410.		
Limestone: light-gray, dense, coarsely glauconitic, sandy, fossiliferous (macroshells, bryozoan remains and Foraminifera); interbedded thin beds of clay, light-gray, fissile glauconitic .....	150	1,575
<i>Vaginulina midwayana</i> at 1545-1560.		
Limestone: cream, granular, loosely cemented, cherty.....	110	1,685
Marl: dark-gray, sandy, glauconitic, fossiliferous (abundant Foraminifera) .....	55	1,740

Thickness  
(feet)      Depth  
(feet)

### Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):

Marl: bluish-gray to brown, somewhat sandy, chalky, glauconitic, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods and Foraminifera)..... 1,155      2,895

*Bolivinooides decorata*, *Globotruncana cretacea* at 1890-1905.

*Kyphopyxa christneri* at 2370-2385.

*Vaginulina texana* at 2625-2640.

Sand: fine to medium-grained, more or less indurated, phosphatic, micaceous, glauconitic, fossiliferous (macroshells); interbedded clay or shale, dark-gray to pale-green, fissile, silty, finely micaceous, glauconitic..... 210      3,105

### Tuscaloosa Formation:

Sand: fine to coarse-grained, angular, arkosic; interbedded clay, pale-green, sandy, iron-stained..... 295      3,400

"Shale": dark-gray to black, fissile, finely micaceous, carbonaceous, fossiliferous (macroshells at certain levels)..... 100      3,500

Sand: fine to coarse-grained, glauconitic; interbedded shale, as above..... 100      3,600

Sand: fine to coarse-grained, angular, massive, arkosic; interbedded clay, green to purple (mottled), sandy, micaceous..... 650      4,250

### In Lower Cretaceous(?) (Undifferentiated):

Clay: dark-green to purple to red, blocky, micaceous, sideritic, greasy appearance; brick-red, sandy, highly micaceous at depth..... 38      4,288<sup>1</sup>

### Summary:

Miocene (undifferentiated).....	370	370
Oligocene (undifferentiated).....	25	395
Upper Eocene (Ocala limestone).....	395	710
Middle Eocene (Lisbon formation).....	145	635
Middle Eocene (Tallahatta formation).....	260	1,195
In lower Eocene(?) (Wilcox group, undifferentiated).....	130	1,325
Paleocene (Clayton formation).....	415	1,740
Upper Cretaceous (post-Tuscaloosa, undifferentiated).....	1,365	3,105
Upper Cretaceous (Tuscaloosa formation).....	1,145	4,250
In Lower Cretaceous(?) (undifferentiated).....	38	4,288

<sup>1</sup>Not reported below 4288. Total depth 7490.

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	120	500
Limestone .....	170	1,150
Sand: fine to coarse-grained.....	60	1,325
Limestone .....	100	1,425
Limestone .....	150	1,575

**MITCHELL COUNTY**

Location: At City Water Works in Camilla  
 Owner: No. 3 City of Camilla  
 Driller: Stevens Southern Company  
 Drilled: June 1949

Well No.: GGS 218  
 Elev.: 182

**Residuum:**

Clay: mottled, sandy, limonitic.....	20	20
Sand: fine to coarse-grained, angular.....	10	30
Clay: mottled, sandy, limonitic.....	60	90

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white, porous, fossiliferous (abundant bryozoan remains and Foraminifera).....	160	250
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*Operculinoides* sp. common at 90-100.

*Camerina striatoreticulata* at 130-140.

*Amphistegina pinarensis* var. at 240-250.

Limestone: white, dense, highly calcitized and recrystallized.....	60	310
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**Summary:**

Residuum .....	90	90
Upper Eocene (Ocala limestone).....	220	310

**Potential Water-Bearing Zones:**

Limestone .....	160	250
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## MITCHELL COUNTY

Location: 1.7 mi. northeast of Cotton, 0.1 mi. north of  
Highway 93  
Owner: No. 1 Cotton Consolidated Elementary School  
Drilled: October 1954

Well No.: GGS 400  
Elev.: 340<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: bluish-gray to purple (mottled), sandy, limonitic.....	23	23
Clay: tan to olive-green, sandy, limonitic.....	41	64
Clay: yellowish-green, sandy, phosphatic (finely disseminated)...	51	115
Dolomitic limestone: light-brown, rather dense.....	13	128
Clay: dark-green, sandy; interbedded limestone, white, dense, sandy.....	80	208
Limestone: white, dense, sandy, dolomitized and brown at depth.....	108	316

**Summary:**

Miocene (undifferentiated).....	316	316
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**Potential Water-Bearing Zones:**

Limestone.....	108	316
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**Remarks:**

Better aquifers occur below total depth (316) of above well.

## MITCHELL COUNTY

Location: 10.5 mi. southwest of Camilla via Highway 97  
to junction with county road, then 0.12 mi. west via county road to site which  
is 0.1 mi. north of county road  
Owner: No. 1 Oak Grove Elementary School  
Driller: Layne-Atlantic Company  
Drilled: March 1955

Well No.: GGS 417

Elev.: 340<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: mottled, sandy, limonitic, fragments of residual lime- stone at depth.....	38	38

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
Clay: dark-brown, sandy, limonitic; residual limestone, as above	20	58
No samples .....	5	63

**In. Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: somewhat leached but soft, porous, fossiliferous (some Foraminifera) .....	21	84
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*Camerina* cf. *C. striatoreticulata* at 63-84.

**Summary:**

Residuum .....	58	58
No samples .....	5	63
In upper Eocene (Ocala limestone).....	21	84

**Potential Water-Bearing Zones:**

Limestone .....	21	84
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**MITCHELL COUNTY**

Location: In Camilla  
 Owner: No. 4 City of Camilla  
 Driller: Layne-Atlantic Company

Well No.: GGS 564  
 Elev.: 180<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: light-gray to tan to pink (mottled), very sandy, limonitic..	25	25
Clay: dark-brown to olive-green, lignitic, sandy, limonitic.....	21	46
Limonitic bed: dark-brown, dense.....	4	50

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: yellow to tan at depth, calcitized, more calcitized and crystalline with depth, fossiliferous (macroshells, echi- noid and bryozoan remains, Ostracods, and Foraminifera).....	291	341
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*Operculina mariannensis* at 50-61.

*Heterostegina ocalana*, *Gypsina globula*, *Lepidocyclus* sp.  
at 101-115.

*Camerina striatoreticulata* at 115-135.

*Amphistegina pinarensis* var. at 255-263.

*Lepidocyclus* sp. common at 330-337.

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
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**Middle Eocene(?): Claiborne Group (Undifferentiated):**

Sandstone: tan, fine-grained, angular, coarsely glauconitic.....	?	341
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**Summary:**

Residuum .....	50	50
Upper Eocene (Ocala limestone) .....	291	341
Middle Eocene(?) (Claiborne group, undifferentiated) .....	?	341

**Potential Water-Bearing Zones:**

Limestone .....	291	341
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**MITCHELL COUNTY**

Location: 0.2 mi. southeast of Jenkins Quarry  
 Owner: Test Hole  
 Driller: Marquette Cement Company

Well No.: GGS 620  
 Elev.: 270

	Thickness (feet)	Depth <sup>1</sup> (feet)
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**In Oligocene (Undifferentiated):**

Limestone: white, somewhat saccharoidal, fossiliferous (Foraminifera); some clay, pale brownish-gray, blocky, tough.....		16
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*Asterigerina subacuta*, *Siphonina advena*, *Lepidocyclina* sp.  
at 16.

Limestone: as above, but more calcitized, sparingly fossiliferous (rare Foraminifera) .....		30
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Limestone: white, much calcitized, somewhat nodular, granular, porous .....		60
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Limestone: cream, somewhat saccharoidal, nodular, calcitized .....		78
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Limestone: as above, but fossiliferous (Foraminifera) .....		93
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*Rotalia mexicana* var. at 93.

Limestone: as above .....		113
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Limestone: as above .....		125
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**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: flat-white, much calcitized, somewhat saccharoidal, fossiliferous (abundant bryozoan remains and some Foraminifera) .....		132
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*Eponides jacksonensis*, *Operculina mariannensis* at 132.

<sup>1</sup>Depth below land surface of spot samples.

	Thickness (feet)	Depth (feet)
Limestone: as above.....		151
Limestone: flat-white, more calcitized than above, granular, saccharoidal, fossiliferous (bryozoan remains).....		171

**Summary:**

In Oligocene (undifferentiated).....	109 <sup>2</sup>	125
In upper Eocene (Ocala limestone).....	39 <sup>2</sup>	171

**Potential Water-Bearing Zones:**

Limestone .....	155	171
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**MONTGOMERY COUNTY**

Location: 10.35 mi. northwest of Uvalda (map distance), and 0.5 mi. south of McAllister Creek

Well No.: GGS 319  
Elev.: 133

Owner: No. 1 Hugh Peterson

Driller: Dixie Well Drilling Company

Drilled: September 1952

Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Sand: fine to medium-grained, angular, arkosic; interbedded clay, light-gray, sandy, limonitic.....	50	50
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Clay: dark-green, sandy; interbedded sand, as above.....	50	100
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Clay: dark-green, sandy, sandier with depth; interbedded limestone, white, somewhat calcitized and crystalline, sandy, fossiliferous (macroshells at depth); beds of sand, fine to coarse-grained, angular grains, phosphatic (at depth).....	120	220
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Macroshells at 140-150.

Black phosphatic pebbles common at 160-170.

Macroshells abundant at 200-220.

**Oligocene (Undifferentiated):**

Limestone: white to light-gray, nodular, fossiliferous (bryo- zoan remains and some Foraminifera).....	20	240
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*Elphidium* sp. at 220-230.

*Pyrgo* sp. at 230-240.

<sup>2</sup>Estimated from spot samples.



	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Miocene (undifferentiated) .....	220	220
Oligocene (undifferentiated) .....	20	240

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	10	180
Limestone .....	20	240

**MONTGOMERY COUNTY**

Location: Near Mt. Vernon Well No.: GGS 450  
 Owner: No. 1 Mt. Vernon Elementary and High School Elev.: 228  
 Driller: M. M. Gray Drilling Company  
 Drilled: 1955

	Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Clay: mottled, sandy, limonitic; interbedded sand, fine to coarse-grained, angular, arkosic .....	60	60
Clay: yellowish-green, sandy, fossiliferous at depth; interbedded sand, fine to coarse-grained, angular, arkosic, phosphatic at depth .....	270	330
Black phosphatic pebbles common at 200-210.		
Macroshells at 290-300.		

**Oligocene (Undifferentiated):**

Limestone: light-gray, extremely dense, massive, cherty, sandy, sparsely phosphatic (at top), fossiliferous (some echinoid and bryozoan remains and Foraminifera, latter abundant at depth) .....	120	450
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 340-350.		
<i>Gypsina globula</i> <sup>1</sup> at 360-370.		
<i>Lepidocyclina</i> <sup>1</sup> sp., <i>Coskinolina</i> ? <sup>1</sup> sp. at 400-410.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 440-450.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, relatively soft, somewhat calcitized and granular, nodular at certain levels, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	50	500
<i>Lepidocyclina</i> <sup>2</sup> sp. at 450-460.		
<i>Lepidocyclina</i> sp. common at 480-490.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

<sup>2</sup>Probably *Lepid. chaperi*.

**Summary:**

	Thickness (feet)	Depth (feet)
Miocene (undifferentiated) .....	330	330
Oligocene (undifferentiated) .....	120	450
Upper Eocene (Ocala limestone).....	50	500

**Potential Water-Bearing Zones:**

Limestone .....	160	500
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**MONTGOMERY COUNTY**

Location: Near Uvalda  
 Owner: No. 1 Uvalda Elementary School  
 Driller: Scott Brothers  
 Drilled: 1955

Well No.: GGS 514  
 Elev.: 185

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, limonitic; some clay, pale-green to red (mottled), sandy.....	10	10
Clay: pale-green, sandy.....	50	60
Sand: fine to medium-grained, coarser and arkosic at depth; some clay, as above.....	20	80
Clay: pale-green, micaceous, cherty and phosphatic at depth.....	120	200
Light-brown chert common at 90-100.		
Fine-grained phosphatic pebbles at 100-110.		
Sand: fine-grained, finely phosphatic; some clay, as above.....	10	210
Clay: dark-green, sandy.....	20	230
Sand: fine to coarse-grained, arkosic.....	10	240
Clay: dark-green, sandier and abundantly phosphatic at depth....	40	280
Clay: as above; fragments of limestone, white, weathered, macroshells .....	10	290
Limestone: white, sandy, phosphatic, fossiliferous.....	20	310
Limestone: as above; clay, pale-green, blocky, with conchoidal fracture .....	80	390

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, subangular, more indurated at depth, phosphatic, fossiliferous (a coquina at certain levels)....	40	430

**Oligocene (Undifferentiated):**

Limestone: light-gray, somewhat reddish-brown to cream at depth, nodular, very sandy, sparsely phosphatic, fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera at certain levels).....	90	520
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*Rotalia mexicana* var. at 440-450.

*Quinqueloculina* sp., *Elphidium* sp., *Rotalia mexicana* var. at 450-460.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: reddish-brown to cream, rather soft and chalky, somewhat granular at depth, fossiliferous (common to abundant echinoid and bryozoan remains and Foraminifera).....	27	547
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*Camerina striatoreticulata*, *Lepidocyclina* sp. at 520-530.

*Camerina striatoreticulata* abundant at 530-547.

**Summary:**

Miocene (undifferentiated) .....	430	430
Oligocene (undifferentiated) .....	90	520
Upper Eocene (Ocala limestone).....	27	547

**Potential Water-Bearing Zones:**

Limestone .....	107	547
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**MONTGOMERY COUNTY**

Location: Near Ailey

Well No.: GGS 515

Owner: No. 1 Ailey Elementary and High School

Elev.: 253<sup>1</sup>

Driller: Scott Brothers

Drilled: 1955

Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Clay: pale-green to mottled, sandy; interbedded sand, fine to medium-grained, subangular, phosphatic.....	315	315
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<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, nodular, extremely dense and crystalline, very sandy, somewhat cherty, sparsely phosphatic, fossiliferous (some echinoid and bryozoan remains, and Foraminifera) .....	65	380
<i>Rotalia mexicana</i> var., <i>Asterigerina</i> sp. at 315-320.		
<i>Gypsina globula</i> <sup>2</sup> , <i>Quinqueloculina</i> sp., <i>Rotalia mexicana</i> var., <i>Asterigerina</i> sp. at 320-330.		
Limestone: as above, but reddish-brown.....	20	400

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, rather soft and chalky, somewhat granular at depth, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	112	512
<i>Lepidocyclina</i> sp. common at 400-410.		
<i>Gypsina globula</i> common at 410-420.		
<i>Lepidocyclina</i> <sup>3</sup> sp. common to abundant at 450-460.		

**Summary:**

Miocene (undifferentiated) .....	315	315
Oligocene (undifferentiated) .....	85	400
Upper Eocene (Ocala limestone) .....	112	512

**Potential Water-Bearing Zones:**

Limestone .....	132	512
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**MONTGOMERY COUNTY**

Location: Approximately 6 mi. south of Soperton      Well No.: GGS 600  
 on U.S. Highway 221 (State Highway 56)  
 Owner: No. 1 C. H. Goff  
 Driller: M. M. Gray Well Drilling Company  
 Drilled: 1959

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: pale-yellowish-green with red to purple streaks (mottled), very sandy, limonitic.....	50	50
Sand: fine to medium-grained, subangular, arkosic.....	55	105

<sup>2</sup>Reworked (?) fossil of middle Eocene age.<sup>3</sup>Probably *Lepid. chaperi*.

	Thickness (feet)	Depth (feet)
Sand: as above but coarser-grained.....	45	150
Clay: dark-brownish to olive-green, very sandy.....	125	275
Sand: fine-grained, subangular.....	5	280
Sand: coarse-grained, subangular, arkosic.....	3	283
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, much calcitized, saccharoidal, fossiliferous (molds and impressions of megafossils and some Foraminifera) .....	3	286
<i>Quinqueloculina</i> sp. at 280-286.		
<i>Pyrgo</i> sp., <i>Robulus arcuato-striatus</i> var., <i>Reussella</i> sp., <i>Rotalia mexicana</i> var., <i>Gypsina globula</i> <sup>1</sup> , <i>Lepidocyclina</i> <sup>1</sup> sp. at 286-295.		
Limestone: cream, rather massive, much calcitized, saccharoidal, fossiliferous (some Gastropods, echinoid and bryozoan remains and some Foraminifera).....	119	405
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray to white, much calcitized, crystalline, fossiliferous (some macroshells, echinoid remains, bryozoan remains and some Foraminifera).....	150	555
Bryozoan remains common at 415-425.		
<i>Lepidocyclina</i> sp. at 425-435.		
<i>Operculinoides</i> sp. at 445-455.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: as above but sandy.....	70	625
<i>Siphonina claibornensis</i> , <i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> , <i>Cibicides westi</i> at 565-585.		
Limestone: light-gray, massive, much calcitized, crystalline, dense, sparsely glauconitic, sparingly fossiliferous at certain levels (some macroshells, echinoid and bryozoan remains and Foraminifera).....	20	645
<b>Summary:</b>		
Miocene (undifferentiated) .....	283	283
Oligocene (undifferentiated) .....	122	405
In upper Eocene (Ocala limestone).....	150	555
Middle Eocene (Lisbon formation).....	90	645

**Potential Water-Bearing Zones:**

Limestone .....	269	555
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<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## MUSCOGEE COUNTY

Location: 0.5 mi. north of main entrance to Fort Benning Military Reservation, 0.2 mi. northwest of junction of Highways 1 and 85, west side of Highway 85

Well No.: GGS 235

Elev.: 250<sup>1</sup>

Owner: No. 1 W. M. McRae

Driller: L. M. Gray Drilling Company

Drilled: September 1951

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: coarse-grained (up to gravel size); interbedded clay, brown, sandy .....	54	54
<b>In Upper Cretaceous: Tuscaloosa Formation:</b>		
Kaolin: gray, micaceous, sandy .....	5	59
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, gray to red (mottled), micaceous, sandy .....	200	259
Clay: pale-green to red (mottled), sandy, micaceous; interbedded sand, fine to coarse-grained, angular, arkosic .....	117	376
Clay: brick-red, sandy, highly micaceous .....	63	439
<b>In Basement Complex (Undifferentiated):</b>		
Crystalline rock: much altered through weathering .....	6	445
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	54	54
In Upper Cretaceous (Tuscaloosa formation) .....	385	439
In basement complex (undifferentiated) .....	6	445
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained .....	20	149
Sand: fine to coarse-grained .....	40	239

**Remarks:**

Driller reported "hard rock" (probably unaltered basement complex) at 445.

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

## PEACH COUNTY

Location: Few miles southwest of Fort Valley, at Fort Valley State College

Well No.: GGS 348

Elev.: 517

Owner: No. 1 Fort Valley State College

Driller: Layne-Atlantic Company

Drilled: March 1953

	Thickness (feet)	Depth (feet)
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: gray to red (mottled), sandy.....	38	38
<b>Upper Cretaceous: Providence Sand:</b>		
Sand: coarse-grained, limonitic; clay (or kaolin), dark-brown to yellow to purple (mottled), sandy, micaceous.....	7	45
Kaolin: cream, micaceous, sandy.....	20	65
Sand: coarse-grained, angular; some kaolin, light-gray, micaceous.....	20	85
Kaolin: light-gray, micaceous.....	20	105
Sand: fine to coarse-grained; some kaolin, white to red (mottled), micaceous.....	20	125
Sand: coarse-grained, angular, limonitic.....	23	148
<b>Ripley and Cusseta (Undifferentiated):</b>		
Clay: light-gray to yellow, micaceous, sandy.....	6	154
Sand: fine to medium-grained; some clay, as above.....	16	170
Sand: fine to medium-grained; interbedded kaolin, white to gray to red (mottled), micaceous, sandy.....	45	215
<b>Blufftown and Eutaw (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular, limonitic; interbedded clay (or kaolin), gray to black, micaceous, lignitic.....	110	325
Black, lignitic clay prominent at 225-245.		
<b>Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, limonitic, rather massive; interbedded clay (or kaolin), gray to red (mottled), micaceous, sandy.....	170	495

**Summary:**

	Thickness (feet)	Depth (feet)
Paleocene (Clayton formation).....	38	38
Upper Cretaceous (Providence sand).....	110	148
Upper Cretaceous (Ripley and Cusseta, undifferentiated).....	67	215
Upper Cretaceous (Blufftown and Eutaw, undifferentiated).....	110	325
Upper Cretaceous (Tuscaloosa formation).....	170	495

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	35	140
Sand: fine to medium-grained.....	30	205
Sand: fine to coarse-grained.....	75	300
Sand: fine to coarse-grained.....	55	415
Sand: fine to coarse-grained.....	30	455
Sand: fine to coarse-grained.....	15	487

**PEACH COUNTY**

Location: In Fort Valley  
 Owner: No. 4 City of Fort Valley  
 Driller: Layne-Atlantic Company  
 Drilled: January 1954

Well No.: GGS 369  
 Elev.: 525<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: brick-red, very sandy, limonitic, and scattered fragments of residual limestone.....	24	24
Sand: fine to coarse-grained, angular.....	8	32
No samples.....	3	35
<b>In Upper Cretaceous: Providence Sand:</b>		
Kaolin: white, micaceous, sandy.....	13	48
Sand: fine to coarse-grained.....	72	120
<b>In Ripley and Cusseta (Undifferentiated):</b>		
Clay: gray to red (mottled), micaceous, sandy.....	90	210
<b>In Blufftown and Eutaw (Undifferentiated):</b>		
Sand: fine to coarse-grained; clay, gray, very micaceous.....	24	234
Clay: gray, silty, very micaceous.....	16	250
Sand: fine to coarse-grained; some clay, as above.....	30	280

<sup>1</sup>Average elevation based on Georgia State Highway Maps.



	Thickness (feet)	Depth (feet)
<b>Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, arkosic; some clay (or kaolin), gray to pink (mottled), micaceous, sandy.....	35	315
No samples .....	11	326
Sand: coarse-grained, arkosic.....	34	360
No samples .....	36	396
Sand: fine to coarse-grained.....	109	505
Clay: gray to brick-red, very micaceous, sandy.....	12	517

**Summary:**

Paleocene (Clayton formation).....	32	32
No samples .....	3	35
In Upper Cretaceous (Providence sand).....	85	120
In Upper Cretaceous (Ripley and Cusseta, undifferentiated).....	90	210
In Upper Cretaceous (Blufftown and Eutaw, undifferentiated)....	70	280
Upper Cretaceous (Tuscaloosa formation).....	237	517

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	25	145
Sand: fine to coarse-grained.....	30	190
Sand: fine to coarse-grained.....	20	230
Sand: fine to coarse-grained.....	40	320
Sand: fine to coarse-grained.....	40	410
Sand: fine to coarse-grained.....	25	480

**Remarks:**

Overall quality of samples poor. Potential water-bearing zones selected from electric log of well.

**PEACH COUNTY**

Location: 1.0 mi. northeast of Central of Georgia R.R. Well No.: GGS 426  
 Station, in Fort Valley Elev.: 525<sup>1</sup>  
 Owner: No. 1 Atlantic Ice Company  
 Driller: Layne-Atlantic Company  
 Drilled: April 1955

	Thickness (feet)	Depth (feet)
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**Paleocene: Midway Group: Clayton Formation:**

Clay: brick-red, sandy, limonitic.....	20	20
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<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Providence Sand:</b>		
Kaolin: white to red (mottled), sandy.....	10	30
Sand: fine to coarse-grained; some clay, as above.....	25	55
Kaolin: white to red (mottled), very sandy.....	7	62
Sand: fine to medium-grained, angular, limonitic, arkosic.....	13	75
Clay: mottled, very sandy.....	17	92
<b>Ripley and Cusseta (Undifferentiated):</b>		
Clay: light tan, sandy.....	16	108
Sand: fine to coarse-grained, angular; some clay, as above.....	39	147
Sand: fine to coarse-grained, angular, limonitic, arkosic.....	33	180
<b>Blufftown and Eutaw (Undifferentiated):</b>		
Clay: dark-gray to black, sandy, very micaceous.....	5	185
Sand: fine to coarse-grained, angular, arkosic.....	25	210
Clay: light-gray to red (mottled), very sandy.....	7	217
Sand: fine to coarse-grained, angular, arkosic.....	18	235
<b>In Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, arkosic; some clay, red, micaceous.....	68	303
Sand: fine to coarse-grained, angular, arkosic; interbedded clay (or kaolin), white to red (mottled), micaceous, sandy.....	102	405
Clay: gray to brick-red, micaceous, sandy.....	25	430
Sand: fine to coarse-grained, angular, arkosic; interbedded thin stringers of clay (or kaolin), gray to red (mottled), micaceous, sandy.....	71	501
<b>Summary:</b>		
Paleocene (Clayton formation).....	20	20
Upper Cretaceous (Providence sand).....	72	92
Upper Cretaceous (Ripley and Cusseta, undifferentiated).....	88	180
Upper Cretaceous (Blufftown and Eutaw, undifferentiated).....	55	235
In Upper Cretaceous (Tuscaloosa formation).....	266	501

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	67	175
Sand: fine to coarse-grained.....	25	210

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained.....	13	230
Sand: fine to coarse-grained.....	92	337
Sand: fine to coarse-grained.....	47	405
Sand: fine to coarse-grained.....	37	467
Sand: fine to coarse-grained.....	25	495

## PIERCE COUNTY

Location: 1.5 mi. east of Offerman, Land Lot 329, 4th Land District Well No.: GGS 119  
 Owner: No. 1 Adams-McCaskill Elev.: 75  
 Driller: W. B. Hinton  
 Drilled: May 1938

	Thickness (feet)	Depth (feet)
No samples .....	120	120

**In Miocene (Undifferentiated):**

Sand: fine to coarse-grained; limestone, white, rather dense (much calcitized), sandy, phosphatic .....	360	480
Sand and limestone: as above; dolomitic limestone, light-brown, saccharoidal .....	105	585

**Oligocene (Undifferentiated):**

Sand and limestone: as above with more limestone at depth, light-gray to white at depth, much calcitized, nodular, saccharoidal, fossiliferous (macroshells and Foraminifera).....	15	600
<i>Quinqueloculina</i> sp. at 585-600.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white to cream, sandier more calcitized and dolomitized at depth, fossiliferous (bryozoan and echinoid remains, some macroshells, and Foraminifera).....	265	865
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Bryozoan remains prominent at 600-630.

*Camerina* sp. at 675-690.

*Operculinoides floridensis*, *Lepidocyclina* sp. at 690-705.

*Asterocyclina nassauensis* at 705-720.

*Gypsina globula*, *Pseudophragmina flintensis* at 720-735.

*Camerina striatoreticulata* common at 735-750.

*Operculina mariannensis* at 765-780.

Limestone as above but much sandier at 780-810.

Limestone as above but more dolomitized with depth at 810-865.

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Sand: fine to coarse-grained, phosphatic; dolomitic limestone, as above .....	135	1,000
Limestone: light-gray, massive, dense, much calcitized, somewhat sandy, cherty (at certain horizons), fossiliferous (fragments and molds of macroshells, a coquina at certain horizons, bryozoan remains, and Foraminifera) .....	200	1,200
<i>Asterocyclina monticellensis</i> at 1085-1100.		
<i>Lepidocyclina (Polylepidina) antillea</i> at 1100-1115.		
Bryozoan remains prominent at 1115-1130.		
Dolomitic limestone: brown, saccharoidal; interbedded limestone, as above .....	170	1,370
Limestone: cream, poorly consolidated, granular, somewhat calcitized, cherty and gypsiferous at certain horizons, fossiliferous (some Foraminifera at certain levels) .....	390	1,760
<i>Operculinoides</i> sp., <i>Asterocyclina</i> sp. prominent at 1490-1505.		
Dolomitic limestone: light-gray, saccharoidal, gypsiferous .....	120	1,880
Sand: fine to coarse-grained, phosphatic .....	15	1,895
Limestone: cream, granular, somewhat calcitized, coarsely glauconitic, dolomitized at certain horizons, fossiliferous (abundant bryozoan remains); interbedded sand, fine to medium-grained, phosphatic .....	75	1,970
Clay: yellowish-green, fissile, silty, micaceous .....	85	2,055
<i>Marginulina</i> sp. at 2000-2015.		
<i>Cibicides tallahattensis</i> at 2015-2030.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Limestone: light-gray, sandy, coarsely glauconitic .....	30	2,085
Marl: dark-gray, fissile, sandy, glauconitic, micaceous, pyritiferous, fossiliferous (Foraminifera) .....	35	2,120
Limestone: white, sandy, coarsely glauconitic, fossiliferous (fragments and molds of macroshells) .....	15	2,135
Sand: fine to coarse-grained, subangular, phosphatic .....	90	2,225
<i>Eponides dorfi</i> , <i>Valvulineria wilcoxensis</i> at 2090-2105.		
<i>Alabamina wilcoxensis</i> at 2120-2135.		

	Thickness (feet)	Depth (feet)
<b>Palocene: Midway Group: Clayton Formation:</b>		
Limestone: white, dense, much calcitized and crystalline, fossiliferous (macroshells, bryozoan remains, Ostracods, and some Foraminifera); interbedded clay, dark-gray to black, fissile, carbonaceous, micaceous (finely disseminated flakes), fossiliferous, (some Foraminifera) .....	75	2,300
Indurated sand: dark-gray to brown, fine-grained, phosphatic, glauconitic, micaceous, fossiliferous (macroshells, Ostracods, and Foraminifera at certain levels); interbedded marl, brown to dark-gray, silty, glauconitic, micaceous, fossiliferous (Foraminifera at various levels) .....	420	2,720
<i>Discorbis midwayensis</i> var. at 2300-2315.		
<i>Eponides lotus</i> at 2322-2330.		
<i>Vaginulina longiforma</i> at 2390-2405.		
<b>Upper Cretaceous: Post Tuscaloosa (Undifferentiated):</b>		
Marl: dark-brown to bluish-gray, sandy, micaceous, pyritiferous, glauconitic, fossiliferous (macroshells, Ostracods, and Foraminifera) .....	495	3,215
<i>Globotruncana</i> sp. at 2720-2735.		
<i>Globotruncana</i> sp., <i>Guembelina</i> sp., <i>Gaudryina</i> sp. at 2750-2765.		
Marl: brown, fissile, silty, glauconitic, carbonaceous, micaceous, fossiliferous (macro- and microfossils) .....	525	3,740
<i>Planulina</i> cf. <i>P. texana</i> , <i>Globorotalia micheliniana</i> at 3380-3395.		
<i>Planulina taylorensis</i> at 3455-3470.		
<i>Kyphopyxa christneri</i> at 3560-3575.		
<i>Vaginulina texana</i> at 3695-3710.		
Sand: fine to coarse-grained, phosphatic, indurated at certain horizons; interbedded marl, as above .....	135	3,875
<b>Tuscaloosa Formation:</b>		
Clay: gray to dark-green, fissile, sandy, finely micaceous, somewhat iron-stained; interbedded sand, fine to coarse-grained .....	75	3,950
Sand: fine to coarse-grained; interbedded clay, as above .....	255	4,205
Siderite nodules prominent at 3965-3980.		
Sand: fine to medium-grained, somewhat indurated, finely glauconitic, micaceous, fossiliferous (macroshells) .....	41	4,246

WELL LOGS OF THE COASTAL PLAIN OF GEORGIA

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	Thickness (feet)	Depth (feet)
<b>Lower Cretaceous(?) (Undifferentiated):</b>		
Sand: fine-grained, highly micaceous; interbedded clay, green to red, sandy, micaceous .....	102	4,348

**Basement Complex (Undifferentiated):**

Crystalline rock .....	27	4,375
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**Summary:**

No samples .....	120	120
In Miocene (undifferentiated) .....	465	585
Oligocene (undifferentiated) .....	15	600
Upper Eocene (Ocala limestone) .....	265	865
Middle Eocene (Claiborne group, undifferentiated) .....	1,190	2,055
Lower Eocene (Wilcox group, undifferentiated) .....	170	2,225
Paleocene (Clayton formation) .....	495	2,720
Upper Cretaceous (post-Tuscaloosa, undifferentiated) .....	1,155	3,875
Upper Cretaceous (Tuscaloosa formation) .....	371	4,246
Lower Cretaceous(?) (undifferentiated) .....	102	4,348
Basement complex (undifferentiated) .....	27	4,375

**Potential Water-Bearing Zones:**

Limestone .....	220	820
Sand: fine to coarse-grained .....	135	1,000
Limestone .....	200	1,200
Sand: fine to coarse-grained .....	65	2,200

**PIERCE COUNTY**

Location: 2.3 mi. northeast of Offerman, Land Lot 332, Well No.: GGS 120  
 4th Land District Elev.: 75  
 Owner: No. 1 Donald Clark  
 Driller: W. B. Hinton  
 Drilled: May 1939

	Thickness (feet)	Depth (feet)
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**Summary:**

No samples .....	111	111
In Miocene (undifferentiated) .....	539	650
Oligocene (undifferentiated) .....	51	701
Upper Eocene (Ocala limestone) .....	174	875
Middle Eocene (Claiborne group, undifferentiated) .....	1,220	2,095
Lower Eocene (Wilcox group, undifferentiated) .....	290	2,385

	Thickness (feet)	Depth (feet)
Paleocene (Clayton formation) .....	365	2,750
Cretaceous (undifferentiated) .....	1,598	4,348

First observed *Globotruncana* sp. at 2747-2778.

First observed *Anomalina henbesti* at 3322-3353.

First observed *Planulina texana* at 3414-3444.

First observed *Kyphopyxa christneri* at 3444-3474.

First observed *Vaginulina texana* at 3598-3629.

Basement complex (undifferentiated) .....	7	4,355
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#### Remarks:

Samples of poor quality. Formational tops noted above are approximate.

#### PIERCE COUNTY

Location: In Patterson

Well No.: GGS 465

Owner: No. 1 J. C. Echols

Elev.: 105<sup>1</sup>

Driller: Layne-Atlantic Company

Drilled: 1955

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, finely disseminated phosphatic grains; interbedded clay, gray to tan to purple (mottled), sandy .....	30	30
Sand: fine to coarse-grained, angular, arkosic .....	115	145
<b>In Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic; interbedded sand, fine to coarse-grained .....	50	195
Black, phosphatic pebbles prominent at 165-175.		
Clay: dark-green, sandy, phosphatic .....	115	310
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; some limestone, white, dense, much calcitized, sandy .....	20	330
Sand: fine to coarse-grained, phosphatic .....	80	410
Limestone: white, dense, much calcitized, sandy, phosphatic; interbedded sand, fine to coarse-grained, phosphatic; dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic; clay, dark-green, sandy, phosphatic .....	80	490

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
Limestone: white, dense, much calcitized, phosphatic, fossiliferous (casts and molds of megafossils) .....	68	558
Dolomitic limestone: dark-brown, saccharoidal, sandy, phosphatic, fossiliferous (molds and impressions of megafossils) ..	42	600

**Oligocene (Undifferentiated):**

Limestone: cream, recrystallized (much calcitized), nodular, somewhat oolitic?, fossiliferous (Foraminifera) .....	20	620
<i>Dictyoconus</i> <sup>2</sup> sp., <i>Quinqueloculina</i> sp. at 600-620.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: light-gray to white, extremely dense (much calcitized), fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	48	668
<i>Operculinoides</i> sp. at 620-640.		
<i>Operculinoides ocanalus</i> , <i>Asterocyclina nassauensis</i> , <i>Pseudophragmina flintensis</i> , <i>Gypsina globula</i> , <i>Argyrotheca</i> sp. at 660-668.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	145	145
In Miocene (undifferentiated) .....	455	600
Oligocene (undifferentiated) .....	20	620
Upper Eocene (Ocala limestone) .....	48	668

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	80	410
Limestone .....	68	668

**PIERCE COUNTY**

Location: Well No.: GGS 516  
 Owner: No. 1 Pierce County Training School  
 Driller: M. M. Gray Drilling Company  
 Drilled: 1956

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, arkosic, with kaolin inclusions .....	20	20
Clay: light-gray to red (mottled), sandy .....	10	30

<sup>2</sup>Reworked (?) fossil of middle Eocene age.



	Thickness (feet)	Depth (feet)
Sand: very coarse-grained, angular, arkosic; some clay, as above	10	40
<b>Miocene (Undifferentiated):</b>		
Clay: yellowish-green, sandy, finely disseminated phosphatic grains .....	20	60
Sand: fine to coarse-grained, angular, phosphatic, arkosic .....	10	70
Clay: yellowish-green, sandy .....	10	80
Sand: fine to coarse-grained, arkosic .....	50	130
Black, phosphatic pebbles prominent at 120-130.		
Clay: dark-green, sandy, phosphatic .....	50	180
Sand: fine to coarse-grained, phosphatic .....	100	280
Clay: dark-green, sandy, phosphatic .....	100	380
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; interbedded sand, fine to coarse-grained, phosphatic; clay, dark-green, sandy, phosphatic .....	80	460
Dolomitic limestone: as above .....	40	500
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, dense (much calcitized), fossiliferous (molluscan remains and abundant Foraminifera) .....	145	645
<i>Dictyoconus</i> <sup>1</sup> sp. and abundant fossils belonging to the family <i>Miliolidae</i> at 500-510.		
<b>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	40	40
Miocene (undifferentiated) .....	460	500
Oligocene (undifferentiated) .....	145	645
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained .....	50	130
Sand: fine to coarse-grained .....	100	280
Limestone .....	145	645

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## PULASKI COUNTY

Location: Near east end of bridge over Ocmulgee River, Well No.: GGS 237  
 34 yd. northeast of R.R., 40 ft. southwest of dwelling in Hartford Elev.: 230

Owner: No. 1 J. D. Lytle

Driller: H. B. Truluck

Drilled: September 1951

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, argillaceous, brick-red, cherty, and fragments of residual limestone .....	40	40
<b>Upper Eocene: Jackson Group: Cooper Marl:</b>		
Marl: cream, very sandy, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	10	50
<i>Robulus alato-limbatus</i> , <i>Eponides jacksonensis</i> , <i>Planulina cooperensis</i> at 40-50.		
<b>Barnwell Formation:</b>		
Limestone: gray, rather crystalline and saccharoidal, coarse- ly glauconitic; some marl, silty, carbonaceous .....	10	60
Marl: gray, silty, carbonaceous, somewhat indurated, fos- siliferous (Foraminifera) .....	30	90
Limestone: gray, fossiliferous (abundant bryozoan remains and Foraminifera at depth) .....	40	130
<i>Operculinoides</i> sp., <i>Asterocyclina</i> sp. at 100-110.		
Sand: fine to coarse-grained, angular .....	30	160
<b>Summary:</b>		
Residuum .....	40	40
Upper Eocene (Cooper marl) .....	10	50
Upper Eocene (Barnwell formation) .....	110	160
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	40	130
Sand: fine to coarse-grained .....	30	160

## PULASKI COUNTY

Location: 0.35 mi. east of Ocmulgee River, 150 ft. south of R.R., 40 ft. south of dwelling in Hartford  
 Well No.: GGS 238  
 Elev.: 239  
 Owner: No. 1 Fred E. Thompson  
 Driller: H. B. Truluck  
 Drilled: September 1951

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, argillaceous, brick-red, limonitic, cherty, and fragments of residual limestone .....	50	50
<i>Rotalia mexicana</i> var. at 20-30.		
<b>Upper Eocene: Jackson Group: Cooper Marl:</b>		
Marl: cream, very sandy, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	10	60
<i>Eponides jacksonensis</i> , <i>Eponides cocoaensis</i> , <i>Planulina cooperensis</i> at 50-60.		
<b>Barnwell Formation:</b>		
Marl: gray, silty, fossiliferous (echinoid and bryozoan remains and Foraminifera); with thin beds of limestone .....	40	100
Limestone: gray, rather porous, fossiliferous (megafossils, echinoid and bryozoan remains and Foraminifera) .....	40	140
Abundant echinoid and bryozoan remains at 100-110.		
<i>Robulus limbosus</i> var., <i>Gypsina globula</i> at 110-120.		
<i>Operculinoides</i> sp., <i>Lepidocyclina</i> sp. at 120-130.		
<i>Eponides jacksonensis</i> , <i>Operculina mariannensis</i> at 130-140.		
Sand: fine to coarse-grained, angular .....	10	150

## Summary:

Residuum .....	50	50
Upper Eocene (Cooper marl) .....	10	60
Upper Eocene (Barnwell formation) .....	90	150

## Potential Water-Bearing Zones:

Limestone .....	40	140
Sand: fine to coarse-grained .....	10	150

## PULASKI COUNTY

Location: 2 mi. northwest of Hawkinsville city limits, Well No.: GGS 242  
north side of U.S. Highway 341 Elev.: 321  
Owner: No. 1 T. M. Linder  
Driller: H. B. Truluck  
Drilled: 1951

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: mottled, sandy, limonitic, and fragments of residual limestone .....	85	85
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 0-10.		
<b>Upper Eocene: Jackson Group: Cooper Marl:</b>		
Marl: gray, silty, fossiliferous (echinoid and bryozoan remains and some Foraminifera) .....	25	110
<i>Valvulineria jacksonensis</i> at 90-100.		

## Summary:

Residuum .....	85	85
Upper Eocene (Cooper marl) .....	25	110

## Potential Water-Bearing Zones:

None observed to total depth (110). However, aquifers may be found beneath this well at various levels below 110.

## PULASKI COUNTY

Location: South side of junction of Highways 341 and Well No.: GGS 256  
129, 100 yd. west of historical marker in Hartford Elev.: 235  
Owner: No. 1 Harry Cravey  
Driller: H. B. Truluck

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, argillaceous, limonitic, cherty, and scattered fragments of residual limestone .....	30	30
<b>Upper Eocene: Jackson Group: Cooper Marl:</b>		
Marl: cream, very sandy, fossiliferous (Foraminifera) .....	20	50
<i>Bulimina jacksonensis</i> , <i>Eponides jacksonensis</i> , <i>Planulina cooperensis</i> at 30-40.		

	Thickness (feet)	Depth (feet)
<b>Barnwell Formation:</b>		
Marl: gray, silty, fossiliferous (echinoid and bryozoan remains, and Foraminifera); interbedded limestone, cream, glauconitic .....	60	110
<i>Textularia hockleyensis</i> at 90-100.		
Limestone: cream, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	30	140
Abundant bryozoan remains at 110-120.		
<i>Lepidocyclina</i> sp. at 130-140.		
Sand: fine to coarse-grained, angular .....	10	150

**Summary:**

Residuum .....	30	30
Upper Eocene (Cooper marl) .....	20	50
Upper Eocene (Barnwell formation) .....	100	150

**Potential Water-Bearing Zones:**

Limestone .....	30	140
Sand: fine to coarse-grained .....	10	150

**PULASKI COUNTY**

Location: Near Ocmulgee River in Hawkinsville  
 Owner: No. 1 Opelika Mfg. Company  
 Driller: Virginia Supply and Well Company  
 Drilled: March 1953

Well No.: GGS 339  
 Elev.: 245

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, subangular, limonitic .....	5	5
Clay: brown to olive-green, somewhat mottled, sandy, limonitic; fragments of residual limestone, yellow, much leached, sandy, fossiliferous (some Foraminifera) .....	20	25
<i>Quinqueloculina</i> sp., <i>Rotalia mexicana</i> var., <i>Asterigerina subacuta</i> at 5-25.		

**Upper Eocene: Jackson Group: Cooper Marl:**

Sand: fine to coarse-grained, subangular, coarsely glauconitic, fossiliferous (some Foraminifera) .....	5	30
<i>Reussella eocena</i> , <i>Bulimina jacksonensis</i> at 25-30.		

	Thickness (feet)	Depth (feet)
Limestone (or indurated sand?): white to yellow, abundantly arenaceous, fossiliferous (some Foraminifera) .....	15	45
<i>Lepidocyclina</i> sp., <i>Alabamina atlantisae</i> , <i>Cibicides</i> sp. at 30-45.		

**Barnwell Formation:**

Marl: light-gray, sandy, glauconitic, fossiliferous (carrying bryozoan and echinoid remains, Ostracods, and Foraminifera); interbedded limestone, light-gray, much calcitized, crystalline, sandy, glauconitic, fossiliferous (fragments and molds of megafossils) .....	56	101
<i>Textularia hockleyensis</i> , <i>Robulus alato-limbatus</i> , <i>Dentalina jacksonensis</i> , <i>Nonion advena</i> , <i>Discorbis assulata</i> , <i>Discorbis</i> cf. <i>D. subaraucana</i> , <i>Nodosaria fissicostata</i> , <i>Guttulina irregularis</i> , <i>Sigmomorphina jacksonensis</i> , <i>Valvulineria jacksonensis</i> , <i>Cibicides danvillensis</i> , <i>Planulina cocoaensis</i> at 45-55.		
Limestone: gray, crystalline, somewhat saccharoidal, fossiliferous (macroshells, echinoid and abundant bryozoan remains, and Foraminifera) .....	39	140
<i>Gypsina globula</i> , <i>Lepidocyclina</i> sp., <i>Asterocyclina</i> sp., <i>Operculina mariannensis</i> at 120-140.		
Sand: medium to coarse-grained .....	10	150

**Middle Eocene: Claiborne Group: Lisbon Formation:**

Marl: gray, silty, fossiliferous (macroshells and Foraminifera); interbedded sand, fine to coarse-grained, angular, glauconitic, at depth, fossiliferous (macroshell coquina) .....	109	259
<i>Cibicides westi</i> at 172-175.		
Macroshells common at 187-207.		
Glauconite prominent at 231-247.		
Limestone: gray, dense, crystalline, sandy, glauconitic, interbedded marl as above .....	20	279
Pink, sericitic clay prominent at 259-265.		

**Tallahatta Formation:**

Clay: dark-brown, somewhat fissile, glauconitic, lignitic; interbedded sand, fine to coarse-grained .....	40	319
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	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum .....	25	25
Upper Eocene (Cooper marl) .....	20	45
Upper Eocene (Barnwell formation) .....	105	150
Middle Eocene (Lisbon formation) .....	129	279
Middle Eocene (Tallahatta formation) .....	40	319

**Potential Water-Bearing Zones:**

Limestone .....	39	140
Sand: medium to coarse-grained .....	10	150
Sand: fine to coarse-grained .....	13	220
Sand: fine to coarse-grained .....	16	247
Sand: fine to coarse-grained .....	31	316

**Remarks:**

Limestones belonging to the Claiborne group are too dense and nonporous to constitute good water-bearing formations.

The more productive water-bearing sands for the area lie below the total depth (319) penetrated by this well. Such aquifers are of Upper Cretaceous age.

**PULASKI COUNTY**

Location: 4 mi. south of Pulaski-Bleckley County line, Well No.: GGS 472  
 east side of U.S. Highway 26, Land Lot 306, 21st Land Elev.: 280  
 District  
 Owner: No. 1 E. H. Tripp  
 Driller: Ainsworth, Inc.  
 Drilled: October 1954

	Thickness (feet)	Depth (feet)
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**Residuum:**

Clay: mottled, very sandy, limonitic, and fragments of residual limestone (at depth) .....	80	80
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*Rotalia mexicana* var. at 70-80.

**Oligocene (Undifferentiated):**

Limestone: yellow, nodular, somewhat iron-stained, leached, cherty, fossiliferous (echinoid and frequent bryozoan remains, and some Foraminifera) .....	20	100
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*Asterigerina* sp., *Eponides byramensis* at 100-110.

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Cooper Marl:</b>		
Limestone: cream, granular, loosely consolidated (gray, dense, somewhat saccharoidal, sandy, coarsely glauconitic at depth), fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	15	115
<i>Bulimina jacksonensis</i> , <i>Uvigerina jacksonensis</i> , <i>Uvigerina topilensis</i> , <i>Spiroplectammina mississippiensis</i> var., <i>Cibicides lobatulus</i> at 110-120.		
Indurated sand: fine-grained, angular, fossiliferous (casts and molds of megafossils) .....	20	135
<b>Barnwell Formation:</b>		
Marl: gray, silty, somewhat indurated, carbonaceous, fossiliferous (echinoid and bryozoan remains, Ostracods and Foraminifera) .....	40	175
<i>Nonion advena</i> , <i>Valvulineria jacksonensis</i> at 150-160.		
Limestone: gray, dense, coarsely glauconitic, sandy, fossiliferous (casts and molds of megafossils, echinoid and abundant bryozoan remains) .....	35	210
Limestone: cream, porous, coarsely glauconitic, sandier with depth, fossiliferous (echinoid and abundant bryozoan remains, and Foraminifera).....	45	255
<i>Operculina mariannensis</i> , <i>Lepidocyclina ocalana</i> at 210-220. <i>Asterocyclina nassauensis</i> , <i>Camerina striatoreticulata</i> at 220-230.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Marl: gray to dark-green, somewhat indurated, carbonaceous, micaceous, glauconitic (finely disseminated); interbedded limestone, gray, dense, sandy, glauconitic (finely disseminated); sand, fine to coarse-grained, angular, fossiliferous (a coquina) .....	125	380
Macroshells prominent at 255-280.		
<i>Nonion advena</i> , <i>Gryoidina soldanii</i> var., <i>Cibicides danvilensis</i> , <i>Cibicides americanus</i> var., <i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> , <i>Cibicides mississippiensis</i> , <i>Cibicides westi</i> at 280-290.		
Pink sericitic clay prominent at 360-370.		



	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Marl: dark-green, sandy, coarsely glauconitic, pyritiferous, fossiliferous (macroshells, Ostracods and Foraminifera) .....	70	450
<i>Cibicides blanpiedi</i> , <i>Cibicides tallahattensis</i> at 390-400. <i>Asterocyclina monticellensis</i> , <i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> , <i>Cibicides blanpiedi</i> , <i>Cibicides tallahattensis</i> at 400-410.		
<b>Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Sand: fine to medium-grained, angular, sideritic, lignitic; interbedded clay, black, carbonaceous, micaceous .....	35	485
Sideritic nodules abundant at 450-460.		
Sand: coarse-grained, angular, arkosic, sideritic, pyritiferous, lignitic; interbedded kaolin, white to red (mottled), micaceous .....	305	790
Pink kaolin prominent at 680-700.		
Clay: dark-gray to black, micaceous, carbonaceous .....	145	935
Limestone, gray, dense, crystalline, sandy, glauconitic, macroshells prominent at 840-855.		
Clay: dark-brown, silty, carbonaceous, highly micaceous .....	20	955
Sand: coarse-grained, angular, arkosic; interbedded clay, dark-brown, silty, carbonaceous, highly micaceous .....	195	1,150
Clay: dark-brown, silty, carbonaceous, very micaceous, fossiliferous (casts of megafossils); sand .....	50	1,200
Sand: coarse-grained, angular, arkosic; interbedded clay, dark-brown, silty, carbonaceous, very micaceous .....	170	1,370
<b>In Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, arkosic, rather massive; interbedded clay, yellowish-green, sandy, somewhat carbonaceous, micaceous .....	140	1,510
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, yellowish-green, red to purple at depth, somewhat carbonaceous, sandy, micaceous .....	650	2,160
<b>In Lower Cretaceous(?)</b>		
Sand: very coarse-grained, angular, extremely arkosic; interbedded clay, olive-green to tan to brick-red, very micaceous, sandy .....	328	2,487

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum .....	80	80
Oligocene (undifferentiated) .....	20	100
Upper Eocene (Cooper marl) .....	35	135
Upper Eocene (Barnwell formation) .....	120	255
Middle Eocene (Lisbon formation) .....	125	380
Middle Eocene (Tallahatta formation) .....	70	450
Upper Cretaceous (post-Tuscaloosa, undifferentiated) .....	920	1,370
In Upper Cretaceous (Tuscaloosa formation) .....	790	2,160
In Lower Cretaceous (?) .....	328	2,488

**Potential Water-Bearing Zones:**

Limestone .....	80	255
Sand: coarse-grained .....	250	790
Sand: coarse-grained .....	200	1,150
Sand: fine to coarse-grained .....	140	1,510

**QUITMAN COUNTY**

Location: 0.9 mi. east of road intersection in Georgetown, 0.4 mi. east of junction of Highways 27 and 50, north side of Highway 50 at school house

Well No.: GGS 436  
Elev.: 341

Owner: No. 1 Kaigler School

Driller: Gray Artesian Well Company

Drilled: May 1955

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Clay: mottled, sandy .....	11	11
Sand: fine to medium-grained, coarser-grained at depth, angular; some clay, as above .....	31	42
Sand: fine to coarse-grained, angular; some clay, tan, sandy, micaceous .....	9	51
Gravel: pea-size grains, subrounded .....	5	56

**Upper Cretaceous: Providence Sand:**

Marl: dark bluish-gray, sandy, micaceous, fossiliferous at depth (macroshells, Ostracods and Foraminifera) .....	39	95
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*Anomalina pseudopapillosa* at 72-82.

<sup>1</sup>This well reportedly penetrated the Basement complex. Samples in our collection reached a total depth of 2488.

	Thickness (feet)	Depth (feet)
Indurated sand (or sandy limestone): gray, fine-grained, dense .....	3	98
Marl: dark bluish-gray, sandy, micaceous .....	13	111
Indurated sand (or sandy limestone): as above .....	2	113
Marl: dark-gray, silty, micaceous, pyritiferous .....	79	192

**Ripley Formation:**

Marl: dark bluish-gray, silty, micaceous, pyritiferous, glauconitic, fossiliferous (at certain horizons, macroshells, Ostracods and Foraminifera) .....	203	395
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*Gaudryina rudita*, *Cibicides harperi* at 212-232.

**Summary:**

Pliocene to Recent (undifferentiated) .....	56	56
Upper Cretaceous (Providence sand) .....	136	192
Upper Cretaceous (Ripley formation) .....	203	395

**Potential Water-Bearing Zones:**

None observed to total depth of well.

**Remarks:**

Owing to scarcity of water-bearing sands, this well is in an area in which it is difficult to obtain ground water. It is doubtful that the shallow-lying terrace gravels would be perennially productive. Moreover, the indurated sand (or sandy limestone) at depths 95-98 and 111-113 are not thought to be of sufficient thickness to carry water in sufficient quantity to satisfy even domestic needs. The best aquifers, therefore, should be sought at considerably lower depths than that reached by this well. Such water-bearing sands would be encountered in the underlying Eutaw formation and in the more deeply buried Tuscaloosa formation.

**QUITMAN COUNTY**

Location: In Georgetown  
 Owner: No. 1 City of Georgetown  
 Driller: Layne-Atlantic Company  
 Drilled: October 1956

Well No.: GGS 502  
 Elev.: 316

Thickness (feet)	Depth (feet)
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**Upper Cretaceous: Providence and Ripley Formations  
(Undifferentiated):**

Marl: dark bluish-gray to black, sandy, micaceous, pyritiferous, glauconitic, fossiliferous (macroshells, Ostracods,

	Thickness (feet)	Depth (feet)
and Foraminifera at certain levels) ; interbedded indurated sand (or sandstone), dark-gray, argillaceous, micaceous, pyritiferous, glauconitic, fossiliferous (macroshells at certain horizons) .....	350	350
<i>Anomalina pseudopapillosa</i> at 115-125.		
<i>Epistomina caracolla</i> , <i>Cibicides harperi</i> at 125-135.		
<i>Globotruncana cretacea</i> , <i>Loxostoma plaitum</i> , <i>Planulina correcta</i> at 208-218.		
<i>Clavulinoides trilatera</i> var., <i>Robulus navarroensis</i> , <i>Robulus pondi</i> at 235-246.		
Marl: dark-gray to brownish at depth, micaceous, somewhat carbonaceous (lignitic), sandy, fossiliferous (macroshells, Ostracods, and Foraminifera at certain levels) .....	90	440
<i>Planulina taylorensis</i> at 350-360.		
<b>Cusseta Sand:</b>		
Sand: fine to coarse-grained, subangular, indurated at certain levels, micaceous; interbedded marl (or shale), as above..	75	515
<b>Blufftown Formation:</b>		
Shale: dark-brown, fissile, splintery at depth, carbonaceous, micaceous, fossiliferous (macroshells, Ostracods, and Foraminifera at certain levels) .....	525	1,040
<i>Vaginulina texana</i> , <i>Kyphopyxa christneri</i> at 525-535.		
Sand: fine to medium-grained, subangular, somewhat indurated at certain levels, micaceous, glauconitic, phosphatic, fossiliferous (macroshells, Ostracods at certain levels) .....	70	1,110
Sand: fine to coarse-grained, subangular, pyritiferous, glauconitic, phosphatic, fossiliferous at certain levels (coquina and occasional fish teeth) ; fairly numerous thin stringers of shale, as above .....	128	1,238
<b>In Eutaw Formation:</b>		
Shale: yellowish-green to dark-brown to black, fissile, somewhat splintery, micaceous, carbonaceous; interbedded sand, fine to medium-grained, subangular, phosphatic, micaceous....	87	1,325
Sand: fine to medium-grained, subangular .....	35	1,360
<b>Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, arkosic, micaceous; interbedded clay, greenish-gray, somewhat fissile, sandy, micaceous, iron-stained at certain levels .....	140	1,500

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Upper Cretaceous (Providence and Ripley, undifferentiated) .....	440	440
Upper Cretaceous (Cusseta sand) .....	75	515
Upper Cretaceous (Blufftown formation) .....	723	1,238
In Upper Cretaceous (Eutaw formation) .....	122	1,360
Upper Cretaceous (Tuscaloosa formation) .....	140	1,500

**Potential Water-Bearing Zones:**

Sand: fine to medium-grained .....	34	1,360
Sand: fine to coarse-grained .....	13	1,377
Sand: fine to coarse-grained .....	9	1,404
Sand: fine to coarse-grained .....	24	1,434
Sand: fine to coarse-grained .....	13	1,460

**RANDOLPH COUNTY**

Location: In Cuthbert  
 Owner: City of Cuthbert  
 Driller: Layne-Atlantic Company  
 Drilled: 1958

Well No.: GGS 552  
 Elev.: 460

	Thickness (feet)	Depth (feet)
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**Middle Eocene: Claiborne Group (Undifferentiated):**

Sand: fine to coarse-grained, angular, argillaceous, brick-red, limonitic, sparsely glauconitic .....	44	44
Sand: as above; some clay, yellowish-green, sandy, micaceous .....	20	64

**Lower Eocene: Wilcox Group (Undifferentiated):**

Clay: light-gray, silty, micaceous, carbonaceous .....	82	146
Sand: fine to medium-grained, subangular, abundantly glauconitic .....	10	156

**Paleocene: Midway Group: Clayton Formation:**

Sand: fine to coarse-grained, subangular, pale-green quartz grains; interbedded clay, black, somewhat fissile, carbonaceous, micaceous .....	81	237
Limestone: gray, dense, nodular, somewhat sandy, pyritiferous, fossiliferous (fragments, casts and molds of megafossils, bryozoan remains, and Foraminifera) .....	73	310
Limestone: as above but very sandy .....	21	331

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Providence Sand:</b>		
Sand: fine to coarse-grained, somewhat angular .....	7	338
Marl: bluish-gray, silty, chalky, micaceous, pyritiferous, fossiliferous (some Foraminifera) .....	13	351
<i>Anomalina pseudopapillosa</i> , <i>Epistomina caracolla</i> at 338-346.		

**Summary:**

Middle Eocene (Claiborne group, undifferentiated) .....	64	64
Lower Eocene (Wilcox group, undifferentiated) .....	92	156
Paleocene (Clayton formation) .....	175	331
Upper Cretaceous (Providence sand) .....	20	351

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	91	237
Limestone .....	73	310
Sand: fine to coarse-grained .....	7	338

**RICHMOND COUNTY**

Location: Augusta  
 Owner: No. 1 Georgia Training School (Circular Court)  
 Driller: Virginia Machine and Well Company  
 Drilled: February 1940

Well No.: GGS 129  
 Elev.: 136

	Thickness (feet)	Depth (feet)
No samples .....	9	9

**In Upper Cretaceous: Tuscaloosa Formation:**

Kaolin: white, micaceous, sandy; interbedded sand, fine to coarse-grained, angular, arkosic .....	131	140
Sand: medium to coarse-grained, angular, arkosic, with inclusions of kaolin (clay balls) .....	18	158
Kaolin: yellow to white, micaceous, very sandy, limonitic .....	4	162
Brown limonitic pellets prominent at 160-162.		

**Basement Complex (Undifferentiated):**

Clay: bluish-gray, sandy, highly micaceous .....	13	175
Crystalline rock .....	154	329

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
No samples .....	9	9
In Upper Cretaceous (Tuscaloosa formation) .....	153	162
Basement complex (undifferentiated) .....	167	329

**Potential Water-Bearing Zones:**

Sand: medium to coarse-grained .....	18	158
Fractures and voids in Basement complex .....	154	329

**RICHMOND COUNTY**

Location: Augusta Well No.: GGS 130  
 Owner: No. 2, Georgia Training School (Circular Court) Elev.: 136  
 Driller: Virginia Machine and Well Company  
 Drilled: May 1940

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, brown, argillaceous, arkosic .....	10	10
Kaolin: gray to cream, micaceous .....	15	25
Kaolin: brick-red, micaceous, very sandy, limonitic .....	25	50
Kaolin: gray to pink, micaceous, sandy .....	45	95
Kaolin: white to gray to yellow, micaceous .....	40	135
Sand: fine to medium-grained, angular with inclusions of kaolin (clay balls) .....	10	145
Kaolin: gray to yellow to tan to red, micaceous, sandy .....	50	195
Sand: fine to coarse-grained, angular, with inclusions of kaolin (clay balls) .....	20	215
Kaolin: white to gray to yellow to pink, very sandy, micaceous .....	80	295
Sand: fine to coarse-grained, angular, arkosic .....	10	305
<b>Basement Complex (Undifferentiated):</b>		
Clay: olive-green to tan, sandy, highly micaceous .....	20	325
Clay: as above, but dark bluish-green .....	5	330
Crystalline rock .....	870	1,200

**Summary:**

	Thickness (feet)	Depth (feet)
Upper Cretaceous (Tuscaloosa formation) .....	305	305
Basement complex (undifferentiated) .....	895	1,200

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	10	215
Sand: fine to coarse-grained .....	10	305
Fractures and voids in basement complex .....	870	1,200

**RICHMOND COUNTY**

Location: At Hotel Bon Aire, Augusta  
 Owner: No. 1 Hotel Bon Aire  
 Driller: Virginia Supply and Well Company  
 Drilled: May 1952

Well No.: GGS 309  
 Elev.: 330

	Thickness (feet)	Depth (feet)
No samples .....	15	15

**In Upper Eocene: Jackson Group, Barnwell Formation:**

Clay: light-brown, sandy, micaceous .....	20	35
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**Upper Cretaceous: Tuscaloosa Formation:**

Kaolin: white, micaceous, very sandy .....	25	60
Kaolin: white to gray to brick-red to purple (mottled), mica- ceous, limonitic .....	60	120
Sand: fine to coarse-grained .....	10	130
Kaolin: white, micaceous, very sandy .....	10	140
Sand: fine to coarse-grained .....	18	158

**Basement Complex (Undifferentiated)<sup>1</sup>:**

Clay: gray, micaceous .....	2	160
Schist: green, chloritic .....	320	480

**Summary:**

No samples .....	15	15
In upper Eocene (Barnwell formation) .....	20	35
Upper Cretaceous (Tuscaloosa formation) .....	123	158
Basement complex (undifferentiated) .....	322	480

<sup>1</sup>Probably Little River Series of Precambrian (?) age.



	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained .....	10	130
Sand: fine to coarse-grained .....	18	158
Schist .....	100	260

**RICHMOND COUNTY**

Location: Silver Crest and Fleming Heights, Grace-wood  
 Owner: No. 1 Silver Crest School  
 Driller: Virginia Supply and Well Company  
 Drilled: January 1954

Well No.: GGS 371  
 Elev.: 272

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Clay: gray to brown to red (mottled), sandy, limonitic .....	20	20
Clay: as above; inclusions of kaolin, white, micaceous, somewhat sandy .....	10	30
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Kaolin: white, micaceous, somewhat sandy .....	10	40
Clay: light-brown, micaceous, rather sandy .....	10	50
No samples .....	5	55
Kaolin: white, micaceous, sandy; interbedded sand, fine to coarse-grained .....	180	235
Sand: fine to coarse-grained .....	15	250
Kaolin: white, micaceous, sandy .....	5	255
Clay: light-brown, micaceous, very sandy .....	7	262

**Summary:**

Upper Eocene (Barnwell formation) .....	30	30
Upper Cretaceous (Tuscaloosa formation) .....	232	262

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	20	120
Sand: fine to coarse-grained .....	10	150
Sand: fine to coarse-grained .....	15	250

## RICHMOND COUNTY

Location: Hephzibah  
 Owner: No. 1 City of Hephzibah  
 Driller: Layne-Atlantic Company

Well No. GGS 526  
 Elev.: 430

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Sand: fine to coarse-grained, angular; some clay, brick-red, sandy .....	15	15
Sand: fine to coarse-grained, angular, arkosic, with inclusions of kaolin; interbedded clay, yellowish-green to tan to red (somewhat mottled), sandy .....	125	140
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Kaolin: gray to pink, white at depth, micaceous, somewhat sandy .....	45	185
Kaolin: gray to purple (mottled), sandy, sandier with depth.....	75	260
Sand: coarse-grained, angular, arkosic .....	15	275
No samples .....	13	288
Sand: coarse-grained, angular, arkosic .....	10	298
Sand: as above, inclusions of clay .....	12	310
Sand: coarse-grained, angular, arkosic .....	20	330
Kaolin: cream to red (mottled), micaceous, sandy .....	20	350
<b>Summary:</b>		
Upper Eocene (Barnwell formation) .....	140	140
Upper Cretaceous (Tuscaloosa formation) .....	210	350
<b>Potential Water-Bearing Zones:</b>		
Sand: coarse-grained .....	15	275
Sand: coarse-grained .....	10	298
Sand: coarse-grained .....	20	330

## SCHLEY COUNTY

Location: At City Water Works, Ellaville  
 Owner: No. 1 City of Ellaville  
 Driller: Layne-Atlantic Company  
 Drilled: March 1937

Well No.: GGS 75  
 Elev.: 567

	Thickness (feet)	Depth (feet)
No samples .....	120	120
<b>In Upper Cretaceous: Providence Sand:</b>		
Sand: fine to coarse-grained, limonitic .....	8	128
No samples .....	12	140
<b>In Ripley Formation:</b>		
Clay: bluish-gray to black, micaceous; some sand, fine to coarse-grained .....	460	600
No samples .....	110	710
<b>In Blufftown Formation:</b>		
Clay: dark-brown, somewhat fissile, silty, highly micaceous, carbonaceous, pyritiferous, glauconitic and fossiliferous at depth .....	150	860
<i>Vaginulina texana</i> at 800-860.		

## Summary:

No samples .....	120	120
In Upper Cretaceous (Providence sand) .....	8	128
No samples .....	12	140
In Upper Cretaceous (Ripley formation) .....	460	600
No samples .....	110	710
In Upper Cretaceous (Blufftown formation) .....	150	860

## Potential Water-Bearing Zones:

Available samples too fragmentary and sketchy to permit determination of formational tops of water-bearing zones.

## SCHLEY COUNTY

Location: Approximately 200 ft. east of well drilled in 1937 Well No.: GGS 174  
 at City Water Works, Ellaville Elev.: 567  
 Owner: No. 2 City of Ellaville  
 Driller: Layne-Atlantic Company  
 Drilled: July 1948

	Thickness (feet)	Depth (feet)
<b>Middle and Lower Eocene (Undifferentiated):</b>		
Clay: brick-red, very sandy, limonitic; fragments of clay, dark-gray, silty, lignitic, micaceous; inclusions of kaolin, white, micaceous .....	25	25
Sand: fine to coarse-grained, angular; some clay, as above.....	23	48
Sand: as above; some clay, gray to ochre, micaceous.....	30	78
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: dark-gray to black, somewhat blocky and indurated, carbonaceous, micaceous (finely disseminated), glauconitic at depth; inclusions of kaolin, white, micaceous (latter probably "cave" from above).....	12	90
<i>Robulus</i> cf. <i>R. midwayensis</i> at 90-98.		
Limestone: gray, dense, crystalline, sandy, glauconitic at depth, fossiliferous (fragments and casts and molds of macroshells and bryozoan remains).....	8	98
<b>Upper Cretaceous: Providence Sand:</b>		
Kaolin: white to red (mottled), micaceous, and cave from above..	29	127
Clay: gray to brown, somewhat blocky and indurated, carbonaceous, micaceous (finely disseminated), fossiliferous (some Foraminifera) .....	8	135
<i>Cibicides howelli</i> , <i>Anomalina</i> sp. at 127-135.		
Clay: light-gray to tan, somewhat iron-stained, indurated, fissile, micaceous; sand, fine to coarse-grained, angular, and some cave from above.....	23	158
Sand: fine to coarse-grained, angular, sideritic; interbedded kaolin, white to pink (mottled), micaceous .....	107	265
<b>In Ripley Formation:</b>		
Sand: fine to medium-grained, lignitic, sideritic, pyritiferous; interbedded clay, black, somewhat fissile, micaceous, carbonaceous .....	60	325

	Thickness (feet)	Depth (feet)
Marl: gray to black, micaceous, carbonaceous, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera).....	125	450
<i>Robulus stephensoni</i> , <i>Gaudryina rudita</i> , <i>Loxostoma plaitum</i> , <i>Anomalina clementiana</i> , <i>Anomalina pseudopapillosa</i> at 325-350.		
No samples .....	14	464

**In Cusseta(?) Sand:**

Sand: fine to coarse-grained, angular, arkosic, limonitic; interbedded marl, as above.....	54	518
Sand: fine to coarse-grained, angular, limonitic, sideritic.....	128	646

**Summary:**

Middle and lower Eocene (undifferentiated).....	78	78
Paleocene (Clayton formation).....	20	98
Upper Cretaceous (Providence sand).....	167	265
In Upper Cretaceous (Ripley formation).....	185	450
No samples .....	14	464
In Upper Cretaceous (Cusseta(?) sand).....	182	646

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	15	190
Sand: fine to coarse-grained.....	5	525
Sand: fine to coarse-grained.....	71	646

**SCHLEY COUNTY**

Location: 3.7 mi. south of Ellaville via U.S. Highway 19, 2 mi. east of Highway 19, and 0.25 mi. northeast of LaCrosse

Well No.: GGS 312  
Elev.: 527

Owner: No. 1 T. Childers  
Driller: Southeastern Drilling Company  
Drilled: July 1952

	Thickness (feet)	Depth (feet)
<b>Middle and Lower Eocene (Undifferentiated):</b>		
Clay: brick-red, sandy, limonitic.....	10	10
Clay: mottled, sandy, somewhat bauxitic(?).....	20	30
Sand: fine to coarse-grained; interbedded clay, yellow to light-tan, somewhat sandy.....	35	65

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained; interbedded clay, gray, carbonaceous, micaceous .....	55	120
Clay: yellow, bauxitic (?) .....	5	125

**Paleocene: Midway Group: Clayton Formation:**

Clay: gray to black, fissile .....	10	135
Limestone: gray, dense, crystalline (much calcitized), sandy, sandier at depth, fossiliferous (macroshells) .....	35	170

**Upper Cretaceous: Providence Sand:**

Kaolin: white, micaceous, sandy .....	5	175
Sand: fine to coarse-grained .....	35	210
Kaolin: mottled, sandy .....	26	236
Sand: coarse-grained .....	27	263

**Summary:**

Middle and lower Eocene (undifferentiated) .....	125	125
Paleocene (Clayton formation) .....	45	170
Upper Cretaceous (Providence sand) .....	93	263

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	35	210
Sand: coarse-grained .....	27	263

**SCHLEY COUNTY**

Location: 0.3 mi. north of Courthouse in Ellaville, 0.25 mi. west of Highway 19 at public swimming pool  
 Owner: Schley County (Department of Recreation)  
 Driller: Layne-Atlantic Company  
 Drilled: August 1952

Well No.: GGS 315  
 Elev.: 568

Thickness (feet)	Depth (feet)
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**Middle Eocene: Claiborne Group (Undifferentiated):**

Clay: yellowish-green to tan to brick-red (mottled), very sandy, limonitic .....	40	40
Sand: medium to coarse-grained, massive, angular .....	55	95

	Thickness (feet)	Depth (feet)
<b>Lower Eocene and Paleocene (Undifferentiated):</b>		
Clay: brown to olive-green, fissile, greasy appearance, iron-stained, micaceous, sideritic; blocky clay, black, carbonaceous, micaceous (finely disseminated).....	51	146

**Upper Cretaceous: Providence Sand:**

Sand: coarse-grained, angular, arkosic, limonitic; interbedded clay, dark-green to tan to red (mottled), iron-stained, greasy appearance, micaceous; inclusions of kaolin, white, micaceous .....	62	208
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**Summary:**

Middle Eocene (Claiborne group, undifferentiated).....	95	95
Lower Eocene and Paleocene (undifferentiated).....	51	146
Upper Cretaceous (Providence sand).....	62	208

**Potential Water-Bearing Zones:**

Sand: coarse-grained .....	9	156
Sand: coarse-grained .....	30	192

**Remarks:**

Samples of poor quality.

**SCREVEN COUNTY**

Location: Approximately 100 yd. west of Savannah-Atlanta R.R., east side of Municipal Baseball Park, in Sylvania  
 Well No.: GGS 295  
 Elev.: 202  
 Owner: No. 3 City of Sylvania  
 Driller: Stevens and Southern Well Drilling Company  
 Drilled: April 1952

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, subangular, arkosic; with some clay, tan to red (mottled), sandy.....	10	10
Clay: bluish-gray to tan to red (mottled), sandy, micaceous; sand, fine-grained, with finely disseminated black pebbles of phosphate .....	10	20
Sand: fine to coarse-grained, subangular, arkosic; some clay, yellowish-green, sandy .....	105	125

	Thickness (feet)	Depth (feet)
Limestone: light-gray, dense, very sandy, phosphatic, fossiliferous (macroshells) .....	9	134

**Oligocene (Undifferentiated):**

Limestone: light-gray to cream at depth, somewhat nodular, massive, fossiliferous (fragments and molds of molluscan shells, echinoid and bryozoan remains, Ostracods and Foraminifera) .....	86	220
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*Quinqueloculina* sp., *Pyrgo* sp., *Gypsina globula*, *Asterocyclina*<sup>1</sup> sp. at 135-140.

**Upper Eocene: Jackson Group: Cooper Marl:**

Limestone: white, rather soft and chalky, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	38	258
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*Textularia subhauerii*, *Textularia hannai*, *Robulus arcuato-striatus* var., *Siphonina jacksonensis*, *Eponides jacksonensis*, *Nonion planatus*, *Gypsina globula* (common) at 225-230.

*Textularia adalta*, *Textularia dibollensis* var., *Planularia* cf. *P. truncana*, *Marginulina cocoaensis*, *Dentalina jacksonensis*, *Nodosaria fissicostata*, *Alabama mississippiensis*, *Reussella sculptilis*, *Angulogerina ocalana*, *Cassidulina subglobosa*, *Cibicides cocoaensis*, *Cibicides lobatulus*, *Planulina cocoaensis*, and abundant bryozoan remains at 250-255.

**Middle Eocene: Claiborne Group: Lisbon Formation:**

Limestone: light-gray, dense, very sandy, sparsely phosphatic, fossiliferous (macroshells, echinoid and bryozoan remains) .....	10	268
Sand: fine to medium-grained .....	22	290
Indurated sand: fine to medium-grained; thin tongues of limestone, gray, dense, sandy, sparsely glauconitic .....	40	330
Sand: fine to medium-grained; thin stringers of marl, gray, somewhat sandy .....	86	416
Sand: fine to coarse-grained .....	18	434
Limestone: gray, dense, sandy, glauconitic .....	28	462
Sand: fine to coarse-grained .....	13	475
Limestone: gray, dense, sandy, glauconitic .....	15	490

<sup>1</sup>Reworked (?) fossil of middle Eocene age.



	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Miocene (undifferentiated) .....	134	134
Oligocene (undifferentiated) .....	86	220
Upper Eocene (Cooper marl) .....	38	258
Middle Eocene (Lisbon formation) .....	232	490

**Potential Water-Bearing Zones:**

Limestone .....	88	258
Sand: fine to coarse-grained .....	18	434
Limestone .....	28	462

**SCREVEN COUNTY**

Location: At Sewage Treatment Plant in Sylvania  
 Owner: City of Sylvania  
 Driller: Layne-Atlantic Company  
 Drilled: February 1955

Well No.: GGS 413  
 Elev.: 210<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Sand: fine to medium-grained, arkosic, finely disseminated phosphate grains; clay, tan to red (mottled), sandy, limonitic .....	10	10
Clay: bluish-gray to tan to red (mottled), sandy, limonitic .....	10	20
Clay: yellowish-green, sandy .....	20	40
Clay: as above, but much sandier .....	38	78
Sand: fine to coarse-grained; interbedded limestone, light-gray to white, dense (much calcitized), sandy, phosphatic, fossiliferous (macroshells) .....	13	91

**Oligocene (Undifferentiated):**

Limestone: light-gray, very dense (much calcitized), massive, nodular, fossiliferous (some echinoid and bryozoan remains and Foraminifera) .....

5      96

*Pyrgo* sp., *Rotalia mexicana* var., *Gypsina globula*<sup>2</sup>, *Textularia* sp., *Cibicides pseudoungerianus* at 91-96.

Limestone: yellow to white at depth, saccharoidal (highly calcitized), crystalline, nodular, fossiliferous (as above) .....

7      103

*Dictyoconus*<sup>2</sup> sp. at 96-103.

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

<sup>2</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Limestone: cream, nodular (much calcitized), fossiliferous (as above) .....	65	168

*Canceris vicksburgensis*, *Pullenia alazanensis* at 118-128.

#### Upper Eocene: Jackson Group: Cooper Marl:

Limestone: whiter than above, soft, chalky, weathered (?), fossiliferous (abundant bryozoan remains and Foraminifera) .....	46	214
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*Siphonina jacksonensis*, *Gypsina globula*, *Eponides jacksonensis*, *Lepidocyclina* sp. at 168-178.

*Discorbis assulata*, *Planulina cocoaensis*, *Cibicides cocoaensis*, *Robulus alato-limbatus*, *Robulus arcuato-striatus* var., *Rotalia mexicana* var., *Pyrgo* sp., *Quinqueloculina* sp., *Cibicides lobatulus*, *Cibicides mississippiensis*, *Gypsina globula* at 198-214.

#### Middle Eocene(?): Claiborne Group: Lisbon Formation:

Sand: fine to coarse-grained, angular, fossiliferous (casts and molds of megafossils) .....	2	216
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#### Summary:

Miocene (undifferentiated) .....	91	91
Oligocene (undifferentiated) .....	77	168
Upper Eocene (Cooper marl) .....	46	214
Middle Eocene(?) (Lisbon formation) .....	2	216

#### Potential Water-Bearing Zones:

Sand: fine to coarse-grained .....	13	91
Limestone .....	123	214
Sand: fine to coarse-grained .....	2	216

#### SCREVEN COUNTY

Location:  
Owner: No. 1 Arnett Elementary School  
Driller: Speedy McQuaig Plumbing Company  
Drilled: 1955

Well No.: GGS 462  
Elev.: 216

Thickness (feet)	Depth (feet)
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#### Pliocene to Recent (Undifferentiated):

Sand: fine to medium-grained, arkosic; clay, bluish-gray to tan to red (mottled), very sandy .....	10	10
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	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: yellowish-green to purple (mottled), sandy, phosphatic (at depth); interbedded sand, fine to medium-grained, somewhat coarser-grained at depth.....	150	160
Light-gray phosphatic pebbles prominent at 100-110.		
Yellowish-green chert prominent at 150-160.		
Clay and sand: as above; thin tongues of limestone, white, dense, sandy.....	60	220

**Oligocene (Undifferentiated):**

Limestone: light-gray to pinkish, dense (much calcitized), nodular, sandy, fossiliferous (casts and molds of megafossils chiefly Gastropods, bryozoan remains and Foraminifera).....	80	300
<i>Dictyoconus</i> <sup>1</sup> sp., <i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 220-230.		
<i>Gypsina globula</i> <sup>1</sup> common at 230-240.		
<i>Lepidocyclina mantelli</i> ? at 250-260.		

**Summary:**

Pliocene to Recent (undifferentiated).....	10	10
Miocene (undifferentiated).....	210	220
Oligocene (undifferentiated).....	80	300

**Potential Water-Bearing Zones:**

Limestone.....	70	290
Sand: fine to coarse-grained.....	10	300

**SCREVEN COUNTY**

Location: 6.5 mi. east of Rockyford, south side of alternate Highway 17      Well No.: GGS 578  
 Owner: No. 1 Oak Grove Methodist Church      Elev.: 165  
 Driller: Turner Well Drilling Company  
 Drilled: 1959

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: light-gray with red streaks (mottled), pale-yellowish-green at depth, very sandy.....	84	84
Sand: coarse-grained, subrounded, arkosic.....	41	125

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Clay: pale-yellowish-green, sandy, light-brown rounded phosphatic pebbles .....	21	146
Sand: coarse-grained, subrounded, jet-black rounded phosphatic pebbles, fossiliferous (macroshells).....	31	177

**Oligocene (Undifferentiated):**

Limestone: cream with dark-gray to black streaks, nodular, massive but porous, somewhat cherty, fossiliferous (fragments and molds of megafossils, echinoid and bryozoan remains, Ostracods, and Foraminifera).....	18	195
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*Quinqueloculina* sp., *Rotalia mexicana* var., *Asterigerina subacuta*, *Lepidocyclina* sp.<sup>1</sup>, *Operculinoides* sp.<sup>1</sup>, and *Gypsina globula*<sup>1</sup> at 177-188.

Limestone: cream, rather soft and chalky, fossiliferous (bryozoan remains and some Foraminifera).....	12	207
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*Gypsina globula*<sup>1</sup> common at 195-207.

**Summary:**

Miocene (undifferentiated) .....	177	177
Oligocene (undifferentiated) .....	30	207

**Potential Water-Bearing Zones:**

Limestone .....	30	207
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**SCREVEN COUNTY**

Location: 16 mi. north of Sylvania on U.S. Highway 301      Well No.: GGS 590  
 Owner: Wade Plantation      Elev.: 95  
 Driller: Turner Well Drilling Company  
 Drilled: 1959

Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Sand: coarse-grained, subangular, arkosic; interbedded clay, dark-brown to mottled to yellowish-green at depth, sandy.....	123	123
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**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, much leached, rather soft and porous, fossiliferous (molluscan shells, echinoid and bryozoan remains, and some Foraminifera).....	20	143
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*Operculinoides floridensis*, *Asterocyclina nassauensis*, *Lepidocyclina* sp. at 123-143.

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Sand: fine to coarse-grained, subangular, sparsely phosphatic, fossiliferous at depth (Foraminifera); some clay, light-gray, somewhat indurated and tough, very sandy, finely glauconitic, micaceous .....	20	163
<i>Nonion advena</i> abundant, <i>Nonion inexcavatus</i> , <i>Bolivina</i> sp., <i>Cibicides americanus</i> var. <i>antiquus</i> , <i>Cibicides lobatulus</i> at 143-163.		
Clay: light to dark-greenish-gray to brownish-green, very sandy, sparsely phosphatic, micaceous, carbonaceous .....	10	173
Limestone: light-gray, saccharoidal, dense, sandy, sparsely phosphatic, glauconitic, fossiliferous (molds and impressions of molluscan shells, echinoid and bryozoan remains, and some Foraminifera) .....	57	230
<i>Spiroplectammina mississippiensis</i> var., <i>Textularia hannai</i> , <i>Nonion advena</i> , <i>Discorbis assulata</i> , <i>Gyroldina soldanii</i> var., <i>Cibicides americanus</i> , <i>Cibicides lobatulus</i> , <i>Cibicides</i> cf. <i>C. refulgens</i> at 191-210.		
Limestone: as above but light-gray to cream at depth .....	41	271
Marl: cream but rather dark-brownish-green at depth, somewhat indurated and tough, sandy, with hard limey nodules, fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera); interbedded limestone or coquina, white to light-brown, sandy, coarsely but sparsely glauconitic, fossiliferous (echinoid and bryozoan remains, and abundant fragments and molds of megafossils); beds of sand, fine to coarse-grained, subangular, sparsely phosphatic .....	103	374
<i>Discorbis georgiana</i> , <i>Gyroldina soldanii</i> var., <i>Alabamina atlantisae</i> , <i>Nonion planatus</i> , <i>Guttulina irregularis</i> , <i>Cibicides danvillensis</i> , <i>Cibicides ouachitaensis</i> , <i>Cibicides pseudoungerianus</i> var., <i>Cibicides westi</i> , <i>Cibicides</i> sp. at 271-292.		
<i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> , <i>Cibicides pippeni</i> , <i>Cibicides westi</i> at 292-312.		
Coquina prominent at 312-333.		

#### Summary:

Miocene (undifferentiated) .....	123	123
Upper Eocene (Ocala limestone) .....	20	143
Middle Eocene (Lisbon formation) .....	231	374

#### Potential Water-Bearing Zones:

Sand: fine-grained .....	30	173
Limestone .....	98	271

## SEMINOLE COUNTY

Location: In Donalsonville  
 Owner: City of Donalsonville  
 Drilled: August 1947

Well No.: GGS 149  
 Elev.: 150<sup>1</sup>

	Thickness (feet)	Depth (feet)
No samples .....	60	60

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white to cream, much calcitized, crystalline, massive, fossiliferous (bryozoan remains and Foraminifera)..... 100 160

*Operculinoides* sp., *Lepidocyclina* sp. at 65-77.

*Gypsina globula* at 77-90.

*Amphistegina pinarensis* var. at 100-112.

**Summary:**

No samples .....	60	60
In upper Eocene (Ocala limestone) .....	100	160

**Potential Water-Bearing Zones:**

Limestone .....	100	160
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**Remarks:**

Additional aquifers—water-bearing sands and limestones—occur below total depth of this well.

## SEMINOLE COUNTY

Location: 660 ft. from south line and 660 ft. from east  
 line of Land Lot 82, 27th Land District  
 Owner: No. 1 W. E. Harlow  
 Driller: Mont Warren et al  
 Drilled: February 1949

Well No.: GGS 187  
 Elev.: 145  
 (derrick floor)

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: bluish-gray to tan (mottled), very sandy, limonitic.....	40	40

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: yellow, much leached, crystalline, highly calcitized, fossiliferous (casts and molds of megafossils, echinoid and bryozoan remains, and some Foraminifera)..... 10 50

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, angular; some limestone, as above <i>Amphistegina pinarensis</i> var., <i>Operculinoides</i> sp., <i>Asterocyclina</i> sp. at 50-60.	10	60
No samples .....	603	663
<b>In Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Sand: fine to coarse-grained, subangular, somewhat indurated, glauconitic; fragments of limestone, gray, crystalline, dense, very sandy, coarsely glauconitic, fossiliferous (fragments, casts and molds of megafossils) .....	57	720
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Indurated sand: fine to medium-grained, subangular, coarsely and abundantly glauconitic, fossiliferous (fish teeth) .....	30	750
Clay: dark-gray, silty, lignitic, micaceous .....	160	910
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: gray, dense, crystalline, very sandy, glauconitic, fossiliferous (fragments and casts of megafossils) .....	10	920
Indurated sand: fine-grained, dense, saccharoidal, glauconitic (finely disseminated), fossiliferous (fragments, casts and molds of megafossils, bryozoan remains, Ostracods, and Foraminifera) .....	60	980
<i>Operculinoides catenula</i> , <i>Rotalia</i> sp. at 960-970. <i>Pseudophragmina stephensoni</i> , <i>Rotalia</i> sp., <i>Boldia madrugensis</i> at 970-980.		
Limestone: cream, granular, coarsely glauconitic at certain levels, cherty, fossiliferous (some Foraminifera) .....	85	1,065
Brown chert prominent at 990-1000. <i>Vaginulina longiforma</i> , <i>Boldia madrugensis</i> , <i>Discorbis midwayensis</i> var. <i>soldadoensis</i> , <i>Siphonina prima</i> at 1040-1050.		
Indurated sand: dark-gray, fine-grained, argillaceous, glauconitic (finely disseminated), micaceous; stringers of clay, dark-gray, micaceous, carbonaceous .....	75	1,140
Indurated sand <sup>1</sup> : as above .....	90	1,230
Limestone: gray, granular, rather loosely consolidated, glauconitic (finely disseminated), fossiliferous (some Foraminifera) .....	170	1,400

<sup>1</sup>Indurated sand grades gradually downward into the underlying granular limestone. No sharp contact was observed between these two lithologic units.

	Thickness (feet)	Depth (feet)
Marl: gray, silty, chalky, micaceous, fossiliferous (abundant Foraminifera <sup>2</sup> ) .....	30	1,430
<b>Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Marl: gray, chalky, micaceous, pyritiferous, fossiliferous (abundant Foraminifera) .....	25	1,455
<i>Globotruncana cretacea</i> common at 1430-1440.		
Indurated sand: fine-grained, glauconitic, rather dense, micaceous .....	220	1,675
Marl: gray, chalky, micaceous, pyritiferous, fossiliferous (at certain horizons, macroshells, Ostracods, and Foraminifera)....	805	2,480
<i>Planulina taylorensis</i> at 1720-1730.		
<i>Bolivinoïdes decorata</i> at 1730-1740.		
<i>Kyphopyxa christneri</i> at 2060-2070.		
<i>Vaginulina texana</i> at 2310-2320.		
Sand: fine to coarse-grained, somewhat indurated, glauconitic (finely disseminated); thin stringers of marl, as above.....	125	2,605
Sand: indurated, more or less fine to coarse-grained, angular, phosphatic, glauconitic (finely disseminated).....	145	2,750
<b>Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, micaceous, fossiliferous (at certain horizons, macroshells); clay, pale-green, somewhat mottled, sandy, micaceous .....	190	2,940
Sand: fine to medium-grained, angular, micaceous, fossiliferous (at certain horizons, macroshells); interbedded shale, dark-gray, fissile, carbonaceous, micaceous (finely disseminated flakes) .....	250	3,190
Indurated sand: fine-grained, abundantly glauconitic (finely disseminated); some shale, as above.....	78	3,268
Sand: coarse-grained, angular, arkosic; interbedded clay, yellowish-green to red (mottled), micaceous, sandy.....	304	3,572
<b>Summary:</b>		
Residuum .....	40	40
Upper Eocene (Ocala limestone).....	20	60
No samples .....	603	663
In middle Eocene (Tallahatta formation).....	57	720
Lower Eocene (Wilcox group, undifferentiated).....	190	910
Paleocene (Clayton formation).....	520	1,430
Upper Cretaceous (post-Tuscaloosa, undifferentiated).....	1,320	2,750
Upper Cretaceous (Tuscaloosa formation).....	822	3,572

<sup>2</sup>Tamesi fauna of Paleocene age.



Thickness (feet)	Depth (feet)
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**Potential Water-Bearing Zones:**

None observed in samples available on this well.

**Remarks:**

Water-bearing limestone occurs somewhere in the interval 60-400. Samples were lacking in the interval 60-663, hence the thickness of the Ocala formation in this well is not known on the basis of available samples.

**STEWART COUNTY**

Location: 2.5 mi. north of Lumpkin on Highway 27  
 Owner: No. 1-A Interstate Land Development Company  
 Driller: Southeastern Drilling Company  
 Drilled: October 1955

Well No.: GGS 451  
 Elev.: 525

Thickness (feet)	Depth (feet)
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**Upper Cretaceous: Providence Sand:**

Sand: fine to coarse-grained, angular, limonitic; some clay, tan to pink (mottled) to white (kaolin) at depth, micaceous, sandy .....	70	70
Sand: coarse-grained, angular, arkosic .....	5	75

**Ripley Formation:**

Marl: dark-gray, silty, somewhat sandy at depth, micaceous, carbonaceous, phosphatic, glauconitic, fossiliferous at depth (macroshells, Ostracods, and Foraminifera) .....	255	330
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*Gaudryina* sp., *Robulus* sp., *Anomalina clementiana* at 100-110.

*Loxostoma plaitum*, *Anomalina pseudopapillosa*, *Anomalina clementiana* at 120-130.

*Planulina henbesti* at 220-230.

**Cusseta and Blufftown (Undifferentiated):**

Sand: fine to coarse-grained, angular, micaceous, phosphatic, lignitic; interbedded clay, dark bluish-gray to brown, somewhat fissile, carbonaceous, micaceous, pyritiferous .....	180	510
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**Summary:**

Upper Cretaceous (Providence sand) .....	75	75
Upper Cretaceous (Ripley formation) .....	255	330
Upper Cretaceous (Cusseta and Blufftown, undifferentiated) .....	180	510

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained .....	20	434

**STEWART COUNTY**

Location: 1.5 mi. east of road junction in Omaha, north side of east-west secondary road      Well No.: GGS 478  
 Owner: No. 1 Omaha School      Elev.: 318  
 Driller: Layne-Atlantic Company  
 Drilled: February 1956

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Clay: bluish-gray to tan to brick-red (mottled), very sandy, limonitic .....	11	11
Sand: very coarse-grained (subgravel size), angular, arkosic .....	17	28

**Upper Cretaceous: Ripley Formation:**

Marl: dark bluish-gray, carbonaceous, micaceous, phosphatic, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera); sideritic and glauconitic at depth .....	66	94
<i>Robulus stephensoni</i> at 68-78.		
Glauconite common at 88-94.		

**Cusseta Sand:**

Sand: fine to coarse-grained, subangular, fossiliferous (macroshells) .....	20	114
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**Blufftown Formation:**

Marl: as above; interbedded at widely separated intervals with beds of indurated sand, dark-gray, rather dense and crystalline, micaceous, glauconitic (finely disseminated) .....	197	311
<i>Vaginulina texana</i> at 188-198.		
<i>Vaginulina texana</i> , <i>Marginulina</i> sp. at 290-300.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	28	28
Upper Cretaceous (Ripley formation) .....	66	94
Upper Cretaceous (Cusseta sand) .....	20	114
Upper Cretaceous (Blufftown formation) .....	197	311

<b>Potential Water-Bearing Zones:</b>	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained.....	20	114

**Remarks:**

The best aquifers (sand) in this area occur much deeper than the total depth of this well. Such aquifers belong to the more deeply buried Eutaw and Tuscaloosa formations.

**SUMTER COUNTY**

Location: Northeastern part of County, near Flint River, Well No.: GGS 137  
 few hundred yd. south of Creek Branch, east side of Elev.: 278  
 north-south County Road  
 Owner: No. 6 USGS Test Hole  
 Driller: Scott Bros.  
 Drilled: August 1946

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: mottled, very sandy, limonitic.....	20	20
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, glauconitic at depth, sandy, fossiliferous (macroshells and Foraminifera at certain levels) .....	26	46
<i>Lepidocyclina</i> sp., <i>Gypsina globula</i> at 30-40.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Marl: light-gray, sandy, glauconitic (finely disseminated grains), fossiliferous (macroshells, bryozoan remains, and Foraminifera); interbedded limestone, cream, dense, sandy, glauconitic, fossiliferous (macroshells).....	44	90
<i>Gyroidina soldanii</i> var., <i>Siphonina claibornensis</i> , <i>Cibicides westi</i> at 46-50 core.		
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, angular, phosphatic, fossiliferous (a coquina).....	100	190
Limestone: gray, dense, sandy, glauconitic, fossiliferous (macroshells) .....	10	200

	Thickness (feet)	Depth (feet)
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray, silty, carbonaceous, glauconitic.....	60	260
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine to medium-grained, angular, somewhat indurated; thin stringers of clay, light-gray, micaceous.....	30	290
Clay: dark-gray to black, carbonaceous, glauconitic, micaceous (finely disseminated) .....	20	310
Limestone: gray, dense, crystalline, sandy, fossiliferous (casts and molds of megafossils and occasional bryozoan remains)....	50	360
<b>Upper Cretaceous: Providence and Ripley (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular.....	20	380
Sand: as above; marl, bluish-gray, silty, micaceous, fossilifer- ous (megafossils and Foraminifera at depth).....	70	450
<i>Anomalina pseudopapillosa</i> at 420-430.		

**Summary:**

Residuum .....	20	20
Upper Eocene (Ocala limestone).....	26	46
Middle Eocene (Lisbon formation).....	44	90
Middle Eocene (Tallahatta formation).....	110	200
Lower Eocene (Wilcox, undifferentiated).....	60	260
Paleocene (Clayton formation).....	100	360
Upper Cretaceous (Providence and Ripley, undifferentiated).....	90	450

**Potential Water-Bearing Zones:**

Sand: fine to medium-grained .....	30	290
Limestone .....	50	360
Sand: fine to coarse-grained .....	20	380

**SUMTER COUNTY**

Location: In Americus  
 Owner: City of Americus  
 Driller: Layne-Atlantic Company  
 Drilled: 1947

Well No.: GGS 147  
 Elev.: 412

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Clay: mottled, sandy, limonitic; tongues of sand, fine to me- dium-grained, angular .....	37	37
Sand: fine to coarse-grained, angular.....	52	89

	Thickness (feet)	Depth (feet)
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: light-gray, silty, micaceous, iron-stained.....	20	109
Clay: dark-gray to black, silty, micaceous, carbonaceous, glauconitic .....	38	147
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: white to pink (mottled), bauxitic?, micaceous, sandy.....	19	166
Sand: fine to coarse-grained, subangular.....	4	170
Limestone: gray, dense, crystalline, sandy, fossiliferous (megafossils and some bryozoan remains).....	40	210
<b>Upper Cretaceous: Providence and Ripley (Undifferentiated):</b>		
Clay: gray, blocky, micaceous.....	11	221
Sand: fine to coarse-grained, angular.....	60	281
Marl: gray, silty, micaceous; some sand, as above.....	46	327
Limestone: gray, dense, crystalline, very sandy.....	25	352
Marl: gray, sandy, chalky, micaceous, fossiliferous (some microfossils); interbedded sand, fine to medium-grained, angular .....	274	626
<i>Anomalina pseudopapillosa</i> at 352-358.		
Sand: fine to coarse-grained, angular; interbedded clay or shale, dark-brown, fissile, silty, lignitic, highly micaceous .....	360	986

**Summary:**

Middle Eocene (Tallahatta formation).....	89	89
Lower Eocene (Wilcox group, undifferentiated).....	58	147
In Paleocene (Clayton formation).....	63	210
Upper Cretaceous (Providence and Ripley, undifferentiated).....	776	986

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	3	169
Limestone .....	37	210
Sand: fine to coarse-grained.....	60	281
Sand: fine to coarse-grained.....	100	726

**Remarks:**

Owing to ground-water discharge (springs) and local rather rugged topography, all prospective aquifers occurring at depths of less than 200 feet below land surface are possibly dry and not good risks as sources of ground water.

## SUMTER COUNTY

Location: At Arles  
 Owner: Dayton Veneer and Lumber Company  
 Driller: Layne-Atlantic Company  
 Drilled: 1948

Well No.: GGS 215  
 Elev.: 463

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Clay: brick-red, very sandy, limonitic.....	33	33
Clay: light-gray to tan to red (mottled), sandy, limonitic.....	20	53
Sand: fine to coarse-grained, subangular.....	82	135
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray, sandy, carbonaceous, micaceous.....	30	165
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay (or kaolin): white to light-gray, sandy, abundantly sideritic, micaceous, bauxitic?.....	38	203
Clay: light to dark-gray, silty, abundantly glauconitic, carbonaceous, micaceous.....	16	219
<b>In Upper Cretaceous: Providence and Ripley (Undifferentiated):</b>		
Marl: gray, silty, micaceous, glauconitic, fossiliferous at depth (Foraminifera); interbedded limestone, gray, dense, crystalline, sandy, fossiliferous (macroshells).....	167	386
Limestone prominent at 262-275.		
Limestone prominent at 342-375.		
<i>Anomalina pseudopapillosa</i> at 375-386.		
<b>Summary:</b>		
Middle Eocene (Tallahatta formation).....	135	135
Lower Eocene (Wilcox group, undifferentiated).....	30	165
Paleocene (Clayton formation).....	54	219
In Upper Cretaceous (Providence and Ripley, undifferentiated)....	167	386
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	55	135
Sand: fine to coarse-grained.....	58	342

## SUMTER COUNTY

Location: 1.5 miles northeast of Plains, 4.2 miles west of  
 New Point Flag Station, 0.1 mile south of Highway 280  
 Owner: No. 1 Southwestern Georgia Experiment Station  
 Driller: Layne-Atlantic Company  
 Drilled: March 1952

Well No.: GGS 280  
 Elev.: 513

	Thickness (feet)	Depth (feet)
No samples .....	5	5
<b>In Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Clay: mottled, sandy, limonitic.....	33	38
Sand: fine to coarse-grained, angular.....	57	95
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: gray, sandy, carbonaceous, glauconitic at depth .....	49	144

## Summary:

No samples .....	5	5
In middle Eocene (Tallahatta formation).....	90	95
Lower Eocene (Wilcox group, undifferentiated).....	49	144

## Potential Water-Bearing Zones:

Sand: fine to coarse-grained.....	57	95
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## SUMTER COUNTY

Location: Americus, on west side of Lee Street Rd., oppo-  
 site Country Club, 0.8 mi. north of Mill Creek Bridge,  
 and about 20 west of southwest corner of dwelling  
 Owner: No. 1 Old Peoples (County) Home  
 Driller: Layne-Atlantic Company  
 Drilled: March 1952

Well No.: GGS 281  
 Elev.: 391

	Thickness (feet)	Depth (feet)
No samples .....	5	5
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Clay: brick-red, sandy, limonitic.....	7	12
Sand: fine to coarse-grained, subangular; interbedded clay, pale-green, somewhat micaceous, sandy.....	108	120

	Thickness (feet)	Depth (feet)
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: gray, silty, micaceous, carbonaceous, glauconitic.....	7	127
Sand: fine to coarse-grained, glauconitic, fossiliferous (a co- quina but not consolidated).....	33	160

**Paleocene: Midway Group: Clayton Formation:**

Limestone: gray, dense, crystalline, sparsely glauconitic, fos- siliferous (megafossils and some bryozoan remains); some clay, black, fissile, carbonaceous, micaceous (finely dis- seminated) .....	30	190
Sand: medium-grained, angular; some marl, gray, silty, mi- caceous .....	17	207

**Summary:**

No samples .....	5	5
In middle Eocene (Tallahatta formation) .....	115	120
Lower Eocene (Wilcox group, undifferentiated) .....	40	160
Paleocene (Clayton formation) .....	47	207

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	33	160
Limestone .....	30	190
Sand: medium-grained .....	10	207

**SUMTER COUNTY**

Location: 2 mi. south of Flintside grade crossing of S.A.L. Well No.: GGS 283  
R.R., about 100 yds. west of county road, 40 north of Elev.: 322  
dwelling

Owner: No. 1 Trim Porter

Driller: F. P. Jones

Drilled: March 1952

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: medium to coarse-grained, angular, limonitic.....	30	30

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: yellow, much calcitized, somewhat crystalline, sparsely glauconitic (at depth), fossiliferous (macroshells, bryozoan remains, and some Foraminifera).....	100	130
<i>Siphonina jacksonensis</i> at 40-50.		
<i>Lepidocyclus</i> sp., <i>Operculinoides</i> sp. at 80-90.		



	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
In Residuum .....	30	30
Upper Eocene (Ocala limestone).....	100	130

**Potential Water-Bearing Zones:**

Limestone .....	90	130
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**SUMTER COUNTY**

Location: In Plains  
 Owner: City of Plains  
 Driller: Layne-Atlantic Company  
 Drilled: March 1952

Well No.: GGS 291  
 Elev.: 502

	Thickness (feet)	Depth (feet)
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**Middle Eocene: Claiborne Group: Tallahatta Formation:**

Clay: mottled, very sandy, limonitic.....	30	30
Sand: fine to coarse-grained, angular.....	50	80
Clay: olive-green to red (mottled), sandy.....	10	90

**Lower Eocene: Wilcox Group (Undifferentiated):**

Clay: dark-gray, silty, glauconitic, carbonaceous, micaceous.....	50	140
Sand: fine to coarse-grained, subangular, glauconitic.....	14	154

**Paleocene: Midway Group: Clayton Formation:**

Clay: black, somewhat fissile, carbonaceous, micaceous.....	15	169
Sand: fine-grained, indurated at certain levels, glauconitic.....	45	214
Clay: gray, carbonaceous, micaceous; interbedded limestone, gray, crystalline, glauconitic, fossiliferous (macroshells and some bryozoan remains).....	28	242
Limestone: as above.....	21	263

**Summary:**

Middle Eocene (Tallahatta formation).....	90	90
Lower Eocene (Wilcox group, undifferentiated).....	64	154
Paleocene (Clayton formation).....	109	263

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	14	154
Sand: fine to coarse-grained.....	45	214
Limestone .....	21	263

**Remarks:**

More productive aquifers (of Upper Cretaceous age) are available below 263.

**SUMTER COUNTY**

Location: ½ mi. northeast of Shiloh School, at dwelling  
 Owner: No. 1 Smith Moore  
 Driller: Southeastern Drilling Company  
 Drilled: 1952

Well No.: GGS 296  
 Elev.: 509

	Thickness (feet)	Depth (feet)
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**Middle Eocene: Claiborne Group: Tallahatta Formation:**

Sand: fine to coarse-grained, angular; interbedded clay, pale-green to tan to red (mottled), micaceous, limonitic.....	140	140
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**Lower Eocene: Wilcox Group (Undifferentiated):**

Clay: dark-gray, silty, micaceous, abundantly glauconitic.....	14	154
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**Summary:**

Middle Eocene (Tallahatta formation).....	140	140
Lower Eocene (Wilcox group, undifferentiated).....	14	154

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	40	140
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**SUMTER COUNTY**

Location: At Spring Creek, near swimming pool, at first road south of grocery  
 Owner: No. 1 C. E. Pelcher  
 Driller: F. P. Jones  
 Drilled: May 1952

Well No.: GGS 303  
 Elev.: 247

	Thickness (feet)	Depth (feet)
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**Residuum:**

Clay: dark-brown, sandy, lignitic, and fragments of residual limestone .....	30	30
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	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Sand: fine to coarse-grained, somewhat indurated, glauconitic at depth, fossiliferous (macroshells).....	40	70
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Marl: gray, glauconitic, fossiliferous (macroshells, bryozoan remains, and Foraminifera); some sand, as above.....	20	90
<i>Asterigerina</i> sp., <i>Cibicides westi</i> at 80-90.		
Limestone: gray, coarsely glauconitic, sandy; some marl, as above .....	20	110
<b>Tallahatta Formation:</b>		
Sand: fine to medium-grained, fossiliferous (macroshells).....	30	140
<b>Summary:</b>		
Residuum .....	30	30
Upper Eocene (Ocala limestone).....	40	70
Middle Eocene (Lisbon formation).....	40	110
Middle Eocene (Tallahatta formation).....	30	140

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	30	140
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**SUMTER COUNTY**

Location: Near intersection of Virginia and Harold Sts., opposite City High School, east side of Harold St., in Americus      Well No.: GGS 333  
Elev.: 380

Owner: City of Americus

Driller: Layne-Atlantic Company

Drilled: January 1953

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Clay: mottled, sandy, limonitic.....	30	30
Sand: fine to coarse-grained, subangular, limonitic.....	32	62
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray, silty, carbonaceous, micaceous.....	34	96

	Thickness (feet)	Depth (feet)
Clay: dark-gray, silty, micaceous, abundantly glauconitic, fossiliferous (some Foraminifera).....	12	108
<i>Robulus</i> sp., <i>Valvulineria scrobiculata</i> , <i>Eponides dorfi</i> at 96-108.		
Sand: fine to coarse-grained, subangular, arkosic; relatively thin stringers of clay (or fuller's earth), light-gray, silty, blocky, carbonaceous, micaceous.....	62	170
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay (or fuller's earth): as above; some fissile clay, black, carbonaceous, micaceous, fossiliferous (some Foraminifera)....	26	196
<i>Ammobaculites</i> sp., <i>Nodosaria affinis</i> , <i>Robulus</i> sp., <i>Eponides lotus</i> , <i>Discorbis midwayensis</i> , <i>Cibicides newmanaee</i> , <i>Cibicides howelli</i> at 190-198.		
Limestone: light-gray, dense, crystalline, sandy, glauconitic at depth, fossiliferous (casts and molds of megafossils, bryozoan remains, and Foraminifera).....	18	214
<b>Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Clay or kaolin: light-gray, somewhat waxy, blocky.....	4	218
Sand: fine to coarse-grained, angular, grains of "rose quartz"....	14	232
Marl: dark bluish-gray, chalky, silty, micaceous, fossiliferous (some macro- and microfossils at certain levels); interbedded sand, fine to medium-grained.....	58	290
<i>Epistomina caracolla</i> at 238-280.		
Limestone: gray, dense, crystalline, sandy.....	14	304
Marl: as above, sandier with depth.....	18	322
Sand: fine to coarse-grained, angular; interbedded marl, as above.....	27	349
Marl: as above.....	33	382
Sand: fine to coarse-grained, angular; interbedded marl, as above.....	44	426
Marl: as above; interbedded sand, fine to medium-grained, angular.....	36	462
Sand: fine to coarse-grained, angular.....	8	470
Sand: fine to medium-grained, angular; interbedded marl, as above.....	70	540
Sand: fine to coarse-grained, angular.....	20	560

	Thickness (feet)	Depth (feet)
Marl or shale: dark-brown, somewhat fissile, silty, carbonaceous, highly micaceous.....	19	579
Sand: fine to coarse-grained, angular; interbedded marl, dark-brown, fissile, carbonaceous, silty, highly micaceous.....	405	984

**Summary:**

Middle Eocene (Tallahatta formation).....	62	62
Lower Eocene (Wilcox group, undifferentiated).....	108	170
Paleocene (Clayton formation).....	44	214
Upper Cretaceous (post-Tuscaloosa, undifferentiated).....	770	984

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	8	170
Sand: fine to coarse-grained.....	14	232
Sand: fine to coarse-grained.....	10	332
Sand: fine to coarse-grained.....	9	349
Sand: fine to coarse-grained.....	12	394
Sand: fine to coarse-grained.....	10	408
Sand: fine to coarse-grained.....	8	470
Sand: fine to coarse-grained.....	15	604
Sand: fine to coarse-grained.....	6	630
Sand: fine to coarse-grained.....	8	692
Sand: fine to coarse-grained.....	26	754
Sand: fine to coarse-grained.....	42	800
Sand: fine to coarse-grained.....	24	914

**Remarks:**

Owing to local rugged topography, all relatively shallow-lying aquifers are probably dry through ground-water leakage (i.e. spring discharge) and are doubtful sources of ground water.

**SUMTER COUNTY**

Location: In Andersonville  
 Owner: No. 1 City of Andersonville  
 Driller: Layne-Atlantic Company  
 Drilled: April 1953

Well No.: GGS 342  
 Elev.: 412

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Clay: mottled, sandy, limonitic.....	23	23
Sand: fine to medium-grained, angular.....	60	83
Sand: coarse-grained, angular.....	5	88

	Thickness (feet)	Depth (feet)
<b>Lower Eocene and Paleocene (Undifferentiated):</b>		
Clay: tan, sandy, micaceous.....	5	93
Clay: gray, silty, micaceous, lignitic; some clay, bauxitic?, white to pink (mottled), micaceous.....	10	103
Clay: gray, sandy, micaceous, lignitic.....	10	113
Clay: white to pink (mottled), bauxitic?, micaceous.....	20	133
Clay: dark-gray to black, glauconitic, micaceous.....	3	136
Clay: light-gray, micaceous.....	5	141
Limestone: gray, dense, crystalline, glauconitic, fossiliferous (megafossils and bryozoan remains).....	41	182

**Upper Cretaceous: Providence Sand:**

Clay: red, micaceous, sideritic.....	13	195
Sand: coarse-grained, angular, many grains of "rose quartz".....	21	216

**Summary:**

Middle Eocene (Tallahatta formation).....	88	88
Lower Eocene and Paleocene (undifferentiated).....	94	182
Upper Cretaceous (Providence sand).....	34	216

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	21	216
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**SUMTER COUNTY**

Location: Near Americus

Well No.: GGS 440

Owner: No. 1 International Minerals Corp.

Driller: Southeastern Drilling Company

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Clay: olive-green to tan to red (mottled), very sandy, limonitic..	10	10
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Sand: fine to medium-grained, subangular, glauconitic; clay, dark-gray, micaceous, silty, carbonaceous.....	30	40

	Thickness (feet)	Depth (feet)
Clay: dark-gray, micaceous, glauconitic, fossiliferous at depth (some Foraminifera) .....	10	50
<i>Robulus wilcoxensis</i> , <i>Valvulineria scrobiculata</i> , <i>Cibicides howelli</i> , <i>Cibicides newmanae</i> at 40-50.		
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: white, micaceous, bauxitic?, sandy.....	10	60
Sand: fine to medium-grained, subangular; some clay, as above..	10	70
Clay: black, fissile, glauconitic, fossiliferous; limestone, gray, nodular, dense (calcitized), fossiliferous (bryozoan remains, molds and fragments of macroshells, and Foraminifera); sand and kaolin as above.....	10	80
<i>Eponides dorfi</i> , <i>Discorbis midwayensis</i> var. <i>trinitatensis</i> , <i>Siphonina wilcoxensis</i> , <i>Alabamina wilcoxensis</i> , <i>Cibicides howelli</i> , <i>Cibicides praecursorius</i> at 70-80.		
Limestone: light-gray, calcitized, nodular, sandy, glauconitic at depth, fossiliferous (molds and fragments of macroshells, bryozoan remains, Ostracods and Foraminifera).....	35	115
Marl: bluish to light-gray, silty, micaceous, fossiliferous.....	15	130
<i>Siphonina prima</i> , <i>Cibicides howelli</i> , <i>Anomalina umbonifera</i> at 120-130.		
Limestone: gray, dense (calcitized), coarsely glauconitic and sandy at depth, fossiliferous.....	30	160
<i>Eponides lotus</i> , <i>Discorbis midwayensis</i> , <i>Siphonina wilcoxensis</i> , <i>Siphonina prima</i> , <i>Gyroidina aequilateralis</i> , <i>Planulina nacatochensis</i> , <i>Cibicides praecursorius</i> at 130-140.		
Limestone: as above; fragments of marl, gray, silty, micaceous..	10	170
<b>Upper Cretaceous: Providence and Ripley (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular.....	30	200
Marl: light-gray, silty, glauconitic, micaceous, lignitic, pyriti- ferous, fossiliferous (macroshells, Ostracods and Foramini- fera); some sand, as above but decreasing with depth.....	40	240
<i>Epistomina caracolla</i> , <i>Anomalina pseudopapillosa</i> at 210-220.		
<b>Summary:</b>		
Middle Eocene (Tallahatta formation).....	10	10
Lower Eocene (Wilcox group, undifferentiated).....	40	50
Paleocene (Clayton formation).....	120	170
Upper Cretaceous (Providence and Ripley, undifferentiated).....	70	240

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
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  
 Elev.: 431  
 Owner: No. 1 Walter Stevens  
 Driller: Flinn-Austin et al  
 Drilled: June 1955

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
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
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
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.		
<b>Paleocene: Midway Group: Clayton Formation:</b>		
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
<b>In Upper Cretaceous: Providence and Ripley (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular.....	25	300
Marl: dark bluish-gray, silty, micaceous, pyritiferous, fossiliferous (some Foraminifera).....	50	350
<i>Epistomina</i> sp., <i>Anomalina pseudopapillosa</i> 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
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#### 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  
 Owner: No. 1 Sweet Potato House  
 Driller: Southeastern Drilling Company  
 Drilled: 1956

Well No.: GGS 504

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine-grained, argillaceous, limonitic.....	10	10
Clay: pale-green to red (mottled), sandy.....	10	20
Sand: fine to coarse-grained, angular.....	10	30
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Clay: pale-green to red (mottled), sandy, blocky.....	10	40
Sand: coarse-grained, angular.....	10	50
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
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.		
<b>Paleocene: Midway Group: Clayton Formation:</b>		
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
<i>Robulus degolyeri</i> , <i>Robulus midwayensis</i> , <i>Siphonina wilcoxensis</i> , <i>Eponides lotus</i> , <i>Discorbis midwayensis</i> var. <i>trinitatensis</i> , <i>Anomalina umbonifera</i> , <i>Cibicides howelli</i> , <i>Cibicides praecursorius</i> at 180-190.		

	Thickness (feet)	Depth (feet)
Sand: coarse-grained to finer-grained at depth, angular, arkosic .....	20	230
<b>Upper Cretaceous: Providence and Ripley (Undifferentiated):</b>		
Sand: fine-grained .....	10	240
Sand: as above; clay, light-gray, silty, micaceous, more pyritiferous and fossiliferous at depth .....	50	290
<i>Anomalina pseudopapillosa</i> at 280-290.		
Sand: gray, medium-grained, indurated, fossiliferous (fragments and molds of macroshells) .....	50	340
Marl: dark-gray, silty, micaceous, fossiliferous .....	70	410
<i>Epistomina caracolla</i> , <i>Planulina correcta</i> , <i>Planulina natchochensis</i> at 340-350.		

**Summary:**

Residuum .....	30	30
Middle Eocene (Tallahatta formation) .....	20	50
Lower Eocene (Wilcox group, undifferentiated) .....	50	100
Paleocene (Clayton formation) .....	130	230
Upper Cretaceous (Providence and Ripley, undifferentiated) .....	180	410

**Potential Water-Bearing Zones:**

Sand: coarse-grained .....	10	50
Sand: fine to coarse-grained .....	50	150
Limestone .....	30	210
Sand: fine to coarse-grained .....	20	230

**TALBOT COUNTY**

Location: Near Geneva  
 Owner: No. 1 Geneva School  
 Driller: Layne-Atlantic Company  
 Drilled: September 1954

Well No.: GGS 403  
 Elev.: 575

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Sand: yellow to light-tan, somewhat argillaceous, fine to coarse-grained, angular .....	5	5
Clay (or kaolin): white to gray to red (mottled), very sandy, arkosic .....	13	18

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, somewhat argillaceous, arkosic.....	15	33
Clay (or kaolin): white to gray to red (mottled), sandy.....	11	44
Clay: tan to olive-green to red (somewhat mottled), mica- ceous, sandy, arkosic.....	54	98
Sand: medium to coarse-grained, angular, arkosic.....	38	136
Clay: brick-red, very sandy, micaceous.....	10	146
Sand: medium to coarse-grained, angular, arkosic.....	11	157
Sand: as above but somewhat argillaceous.....	19	176

**Summary:**

Upper Cretaceous (Tuscaloosa formation).....	176	176
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**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	15	33
Sand: medium to coarse-grained.....	38	136
Sand: medium to coarse-grained.....	11	157

**TATTNALL COUNTY**

Location: North side of prison yard, few yards east of  
elevated steel water tank, at Tattnall State Prison

Well No.: GGS 180  
Elev.: 187

Owner: No. 2 Tattnall State Prison

Driller: Virginia Machine and Well Company

Drilled: 1949

Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: fine to medium-grained, arkosic, finely disseminated phosphatic grains; some gray clay and white kaolin.....	30	30
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**Miocene (Undifferentiated):**

Clay: pale-green, sandy; interbedded sand, fine to coarse- grained, arkosic, phosphatic at depth.....	70	100
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Gray phosphatic pebbles prominent at 90-100.

Clay: gray to pale-green, sandy, phosphatic.....	40	140
Sand: fine to coarse-grained, phosphatic.....	40	180
Clay: pale-green, sandy, phosphatic.....	20	200

	Thickness (feet)	Depth (feet)
Clay: as above; interbedded limestone, white, rather dense (much calcitized), sandy, phosphatic; sand, fine to coarse-grained, phosphatic .....	210	410
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; sand, as above .....	50	460
Macroshells prominent at 430-440.		
Indurated sand: fine to medium-grained, coarsely phosphatic.....	10	470
Limestone: white, dense (much calcitized), very sandy, phosphatic .....	10	480

**Oligocene (Undifferentiated):**

Limestone: cream, fossiliferous (bryozoan remains and Foraminifera) .....	20	500
<i>Dictyoconus</i> <sup>1</sup> sp., <i>Asterocyclina</i> <sup>1</sup> sp., <i>Asterigerina</i> cf. <i>A. subacuta</i> , <i>Spiroloculina</i> sp., <i>Discorbis byramensis</i> , <i>Gypsina globula</i> <sup>1</sup> , <i>Reusella oligocenica</i> , <i>Operculinoides</i> <sup>1</sup> sp. at 480-490.		
<i>Lepidocyclina</i> sp., <i>Siphonina advena</i> , <i>Asterocyclina</i> cf. <i>A. nassauensis</i> <sup>1</sup> at 490-500.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: as above; fragments of limestone, light gray, crystalline (much calcitized), fossiliferous (common to abundant bryozoan remains and Foraminifera).....	20	520
<i>Operculinoides</i> sp., <i>Gypsina globula</i> at 500-510.		
<i>Asterocyclina</i> sp. at 510-520.		
Limestone: light-gray, crystalline (much calcitized), fossiliferous (abundant bryozoan remains and Foraminifera).....	300	820
<i>Asterocyclina nassauensis</i> , <i>Pseudophragmina flintensis</i> , <i>Gypsina globula</i> at 540-550.		

**Summary:**

Pliocene to Recent (undifferentiated).....	30	30
Miocene (undifferentiated) .....	450	480
Oligocene (undifferentiated) .....	20	500
Upper Eocene (Ocala limestone).....	320	820

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	40	180
Limestone .....	320	820

**Remarks:**

Samples of poor quality.

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## TATTNALL COUNTY

Location: At Reidsville Prison  
 Owner: Reidsville Prison  
 Driller: Layne-Atlantic Company  
 Drilled: 1956

Well No.: GGS 522  
 Elev.: 187

	Thickness (feet)	Depth (feet)
No samples .....	190	190
<b>In Miocene (Undifferentiated):</b>		
Clay: yellowish-green, sandy, phosphatic; interbedded sand, fine to coarse-grained, phosphatic.....	80	270
Clay and sand: as above; interbedded limestone, white, sandy....	70	340
Limestone: white, dense (much calcitized), sandy .....	50	390
Clay: yellowish-green to pink (mottled), sandy .....	65	455
Dolomitic limestone: light-brown, saccharoidal, sandy, phos- phatic, fossiliferous (casts and impressions of megafossils)....	40	495
Limestone: gray, extremely dense (much calcitized), sandy, coarsely phosphatic, fossiliferous (casts and impressions of megafossils) .....	10	505
<b>Oligocene (Undifferentiated):</b>		
Limestone: pinkish-brown, massive (much calcitized), nodu- lar, somewhat oolitic, fossiliferous (Foraminifera) .....	20	525
<i>Cibicides americanus</i> at 505-515. <i>Pyrgo</i> sp., <i>Asterigerina subacuta</i> , <i>Rotalia byramensis</i> var., <i>Quinqueloculina</i> sp. at 515-525.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray, crystalline (much calcitized), fossili- ferous (bryozoan remains and Foraminifera) .....	153	678
<i>Operculinoides</i> sp. at 525-538. <i>Asterocyclina</i> sp., <i>Gypsina globula</i> at 538-548. <i>Asterocyclina nassauensis</i> , <i>Pseudophragmina flintensis</i> at 578-588.		
<b>Summary:</b>		
No samples .....	190	190
In Miocene (undifferentiated) .....	315	505
Oligocene (undifferentiated) .....	20	525
Upper Eocene (Ocala limestone) .....	153	678
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	153	678

## TATTNALL COUNTY

Location: Few miles south of Cobbtown  
 Owner: No. 1 Troy Jarriel  
 Operator: Turner Well Drilling Company  
 Date: September 1959

Well No.: GGS 583

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: pale-yellowish-green with tan to red to purple (mottled) streaks, sandy, limonitic .....	42	42
Sand (or very sandy clay): fine-grained, subangular, finely disseminated very small jet-black grains .....	21	63
Clay: yellowish-green, blocky, very sandy, cherty at depth .....	121	184
Clay: as above; interbedded with some few beds of limestone, white to cream, sandy, jet-black phosphatic pebbles at depth .....	102	286
Sand: fine-grained, subangular grains, phosphatic, as in interval 42-63 .....	21	307
Greenish-brown chert prominent at 286-307.		
Indurated sand (or coquina): fine-grained, subangular, phosphatic, fossiliferous (macroshells); interbedded clay, yellowish-green, rather tough, partially indurated, sandy .....	205	512
First observed macroshells at 307-327.		
Indurated sand and clay: as above; interbedded limestone, cream, very sandy, phosphatic, fossiliferous (macroshells) .....	61	573
Limestone: light-brown, somewhat dolomitic(?), saccharoidal, very sandy, phosphatic .....	61	634
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray to cream (latter at depth), much leached (weathered?), nodular (when fresh and unweathered), rather soft, loosely consolidated, sandy, fossiliferous (some echinoid and bryozoan remains and Foraminifera) .....	41	675
<i>Rotalia mexicana</i> var., <i>Gypsina globula</i> <sup>1</sup> at 634-655.		

## Summary:

Miocene (undifferentiated) .....	634	634
Oligocene (undifferentiated) .....	41	675

<sup>1</sup>Reworked(?) fossil of middle Eocene age.

Thickness (feet)	Depth (feet)
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**Potential Water-Bearing Zones:**

None observed to total depth (675).

**Remarks:**

This well represents the thickest section of deposits of Miocene so far observed by the writer. It seems probable, therefore, that this well might have penetrated water-bearing limestones by going deeper (possibly 100 to 150 feet deeper than 675 feet).

**TAYLOR COUNTY**

Location: 1 mi. south of Rupert on Highway 19  
 Owner: No. 2 Jule Cooper  
 Driller: R. G. Duke  
 Drilled: November 1954

Well No.: GGS 428

	Thickness (feet)	Depth (feet)
No samples .....	60	60

**In Upper Cretaceous (Undifferentiated):**

Sand: fine to medium-grained, angular, arkosic, limonitic .....	20	80
Sand: fine to coarse-grained, angular, limonitic; inclusions of kaolin, white, micaceous .....	80	160
Sand: fine to coarse-grained, angular, arkosic .....	20	180

**Summary:**

No samples .....	60	60
In Upper Cretaceous (undifferentiated) .....	120	180

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	20	180
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**TAYLOR COUNTY**

Location: 1 mi. south of Mauk on State Highway 127, at private dwelling  
 Owner: No. 1 B. S. Parker  
 Driller: R. G. Duke  
 Drilled: May 1956

Well No.: GGS 492

No samples .....	40	40
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**In Upper Cretaceous (Undifferentiated):**

Sand: fine to medium-grained, angular, arkosic; some kaolin, white to pink (somewhat mottled), micaceous .....	10	50
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	Thickness (feet)	Depth (feet)
Kaolin: white, micaceous, sandy at depth .....	50	100
Clay: reddish-brown, very sandy, micaceous .....	10	110
Sand: fine to coarse-grained, angular, arkosic .....	50	160
Clay: gray to pink (somewhat mottled), micaceous, sandy .....	10	170
Sand: fine to medium-grained, angular, arkosic .....	30	200

**Summary:**

No samples .....	40	40
In Upper Cretaceous (undifferentiated) .....	160	200

**Potential Water-Bearing Zones:**

Sand: fine to medium-grained .....	30	200
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**Remarks:**

Additional aquifers can be penetrated in the Tuscaloosa formation beneath the bottom of this well.

**TAYLOR COUNTY**

Location: 3.5 to 4 mi. north of Mauk on Atlantic Coast Well No.: GGS 499  
 Line R.R. in Norwich  
 Owner: No. 1 W. R. Turner  
 Driller: R. G. Duke  
 Drilled: December 1955

	Thickness (feet)	Depth (feet)
No samples .....	40	40
<b>In Upper Cretaceous (Undifferentiated):</b>		
Sand: medium-grained, angular, some kaolin, white, micaceous..	10	50
Sand: fine to medium-grained, angular, arkosic .....	70	120
Sand: medium to coarse-grained, angular, arkosic .....	10	130

**Summary:**

No samples .....	40	40
In Upper Cretaceous (undifferentiated) .....	90	130

**Potential Water-Bearing Zones:**

Sand: medium to coarse-grained .....	10	130
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## TAYLOR COUNTY

Location: 5 mi. south of Butler  
 Owner: No. 1 F. B. Green  
 Driller: R. G. Duke  
 Drilled: 1955

Well No.: GGS 533

	Thickness (feet)	Depth (feet)
No samples .....	40	40

**In Upper Cretaceous (Undifferentiated):**

Sand: fine to coarse-grained, angular, arkosic; interbedded  
 kaolin ..... 110 150

Sand, fine to coarse-grained with some kaolin, white, to  
 pink, micaceous, at 60-70.

Sand with kaolin as above at 100-110.

**Summary:**

No samples .....	40	40
In Upper Cretaceous (undifferentiated) .....	110	150

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained ..... 10 150

## TELFAIR COUNTY

Location: 588 ft. from southwest line, 410 ft. from south-  
 east line of Land Lot 260, 7th Land District  
 Owner: No. 1 Henry Spurlin  
 Driller: Parsons and Hoke  
 Drilled: September 1953

Well No.: GGS 375  
 Elev.: 242  
 (derrick floor)

	Thickness (feet)	Depth (feet)
No samples .....	30	30

**In Miocene (Undifferentiated):**

Sand: fine to coarse-grained, subangular; interbedded clay,  
 pale-green, sandy ..... 195 225

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: white to light-gray, cream at depth, much calcitized, somewhat saccharoidal, nodular, fossiliferous (echinoid and bryozoan remains and some Foraminifera) .....	90	315
<i>Quinqueloculina</i> sp., <i>Pyrgo</i> sp., <i>Rotalia mexicana</i> var. at 225-240.		
<i>Dictyoconus</i> <sup>1</sup> sp., <i>Lepidocyclina</i> <sup>1</sup> sp. at 300-330.		
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray, much calcitized, crystalline, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	75	390
<i>Operculinoides</i> sp. common at 330-360.		
<i>Asterocyclina</i> sp. common at 360-390.		
No samples .....	90	480
Limestone: cream, rather soft, chalky, somewhat granular, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	30	510
<i>Operculina mariannensis</i> at 480-510.		
No samples .....	300	810
<b>In Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Limestone: white, somewhat soft and chalky, fossiliferous (Foraminifera) .....	60	870
<i>Lepidocyclina</i> sp. at 810-870.		
No samples .....	474	1,344
<b>In Lower Eocene and Paleocene (Undifferentiated):</b>		
Sand: medium to coarse-grained, subangular, somewhat indurated, phosphatic; some clay, dark-bluish-gray to black, laminated; considerable limestone, brownish-gray, rather dense, crystalline, coarsely glauconitic, fossiliferous (macroshells) .....	48	1,392
No samples .....	88	1,480
Sand: fine-grained to coarse-grained at depth, subangular, phosphatic; interbedded thin clay, light to dark-greenish-gray to reddish-brown, laminated, silty, micaceous, lignitic....	90	1,570

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, subangular; some limestone, brownish-gray, rather massive, sandy, glauconitic, fossiliferous (some macroshells) .....	30	1,600
Sand: fine to coarse-grained, subangular; some clay, as above; some limestone, brownish-gray, rather dense, crystalline, sandy, fossiliferous (casts and impressions of megafossils) .....	180	1,780
<i>Robulus</i> cf. <i>R. midwayensis</i> , <i>Nodosaria affinis</i> , <i>Eponides lotus?</i> , <i>Valvulineria scrobiculata</i> at 1750-1780.		
Sand and clay: as above but with more sand, glauconite common	30	1,810
No samples .....	180	1,990

**In Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):**

Sand: fine to coarse-grained, subangular, glauconitic; some marl, dark-bluish-gray, chalky, micaceous, pyritiferous, fossiliferous (some Foraminifera) .....	90	2,080
<i>Globotruncana</i> sp., <i>Cibicides harperi</i> , <i>Anomalina pseudopapillosa</i> at 1990-2020.		
No samples .....	100	2,180
Sand and clay: as above .....	150	2,330
Sand: fine to coarse-grained, subangular; interbedded clay, dark-brownish-gray, laminated, silty, very micaceous, lignitic .....	570	2,900

**In Tuscaloosa Formation:**

Sand: coarse-grained, subangular, arkosic, pink-colored grains of quartz; interbedded clay, greenish-gray, laminated, micaceous, carbonaceous .....	520	3,420
Clay: brick-red, sandy, micaceous, greasy; interbedded sand, fine to coarse-grained, subangular, arkosic .....	80	3,500
Sand: medium to coarse-grained, subangular, arkosic; interbedded clay, brick-red, micaceous, sandy .....	90	3,590

**Lower Cretaceous(?) (Undifferentiated):**

Sand: coarse-grained, subangular, arkosic, grains of pink quartz; interbedded clay, dark-green with tan streaks to brick-red, greasy, micaceous, sandy; indurated sand, dark-red, fine-grained, sideritic .....	410	4,000
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	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
No samples .....	30	30
In Miocene (undifferentiated) .....	195	225
Oligocene (undifferentiated) .....	90	315
In upper Eocene (Ocala limestone) .....	195	510
No samples .....	300	810
In middle Eocene (Claiborne group, undifferentiated) .....	60	870
No samples .....	474	1,344
In lower Eocene and Paleocene (undifferentiated) .....	466	1,810
No samples .....	180	1,990
In Upper Cretaceous (post-Tuscaloosa, undifferentiated) .....	910	2,900
In Upper Cretaceous (Tuscaloosa formation) .....	690	3,590
Lower Cretaceous(?) (undifferentiated) .....	410	4,000

**Potential Water-Bearing Zones:**

Limestone .....	645	870
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**Remarks:**

Top of Upper Cretaceous, as based on electric log, probably at approximate depth of 1870.

**TELFAIR COUNTY**

Location: In McRae  
Owner: City of McRae  
Driller: M. M. Gray

Well No.: GGS 507  
Elev.: 250

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, somewhat argillaceous, light-gray to red (mottled), limonitic, arkosic .....	20	20
Clay: pale-green, sandy; some sand, as above .....	20	40
Sand: fine to medium-grained, arkosic, finely disseminated phosphatic nodules .....	20	60
Sand: as above; interbedded clay, pale-green, sandy; thin limestones, white, sandy, sparsely but finely phosphatic .....	90	150
Limestone: white, dense (much calcitized), sandy, phosphatic, fossiliferous (macroshells and some Foraminifera) .....	20	170

*Elphidium* sp., *Sorites* sp. at 170-175.

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray to white at depth, nodular, highly calcitized, crystalline, sandy, fossiliferous (some echinoid and bryozoan remains and Foraminifera) .....	60	230
<i>Rotalia mexicana</i> var., <i>Gypsina globula</i> <sup>1</sup> at 170-180.		
<i>Lepidocyclina</i> sp. at 210-220.		
Limestone: as above but much softer, massive, fossiliferous (echinoid and bryozoan remains, and Foraminifera) .....	30	260
<i>Lepidocyclina</i> sp., <i>Coskinolina</i> ? <sup>1</sup> sp., <i>Dictyoconus</i> <sup>1</sup> sp. at 230-240.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, much calcitized, crystalline, fossiliferous at certain levels (bryozoan remains and Foraminifera) .....	115	375
<i>Operculinoides floridensis</i> common at 260-270.		
Limestone: white, dense (highly calcitized), massive, relatively unfossiliferous .....	140	515

**Summary:**

Miocene (undifferentiated) .....	170	170
Oligocene (undifferentiated) .....	90	260
Upper Eocene (Ocala limestone) .....	255	515

**Potential Water-Bearing Zones:**

Limestone .....	305	515
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**TERRELL COUNTY**

Location: Approximately 300 ft. south of Central of Georgia R.R., east side of main street in Dawson  
 Well No.: GGS 213  
 Elev.: 347  
 Owner: No. 3 City of Dawson  
 Driller: Layne-Atlantic Company  
 Drilled: December 1950

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, angular; clay, yellow to olive-green to red (mottled), sandy, limonitic; residual limestone, yellow, iron-stained, leached, cherty, fossiliferous (bryozoan remains, occasional Ostracods and Foraminifera) ..	20	20
<i>Rotalia byramensis</i> var., <i>Quinqueloculina</i> sp. at 0-15.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained; fragments of residual limestone, as above .....	42	62
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Sand: fine to coarse-grained, some indurated, fossiliferous at depth (macroshells); interbedded marl, yellowish-green, somewhat indurated, sandy, micaceous, fossiliferous (some Foraminifera) .....	53	115
<i>Cibicides westi</i> at 62-77.		
<i>Asterigerina lisbonensis</i> at 77-92.		
Abundant macroshells at 92-107.		
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, sparsely phosphatic .....	59	174
<i>Cibicides tallahattensis</i> at 128-143.		
Sand: fine to coarse-grained, fossiliferous (abundant macroshells); some clay, gray, fissile, micaceous, carbonaceous, mottled and bauxitic at depth .....	33	207
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Limestone: gray, dense, crystalline, sandy, coarsely glauconitic, fossiliferous (macroshells) .....	4	211
Clay: dark-gray, silty, carbonaceous, micaceous, glauconitic, fossiliferous (Foraminifera at certain levels) .....	64	275
<i>Cibicides howelli</i> , <i>Anomalina umbonifera</i> at 221-236.		
Sand: fine to coarse-grained, subangular, abundantly glauconitic .....	21	296
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine to coarse-grained, subangular, grains of pale-green quartz; some clay (or fuller's earth), light-gray, blocky, somewhat indurated, micaceous .....	35	331
Clay (or fuller's earth); some sand, as above .....	10	341
Limestone: light-gray, dense (much calcitized), sandy, coarsely glauconitic, fossiliferous (macroshells, bryozoan remains, Ostracods, and Foraminifera); interbedded clay, black, fissile, carbonaceous, finely micaceous, pyritiferous, fossiliferous (Foraminifera) .....	15	356
<i>Robulus</i> cf. <i>R. degolyeri</i> , <i>Cibicides praecursorius</i> , <i>Cibicides howelli</i> at 341-356.		

	Thickness (feet)	Depth (feet)
Limestone: as above, very sandy at depth .....	129	485
<i>Discorbis midwayensis</i> , <i>Robulus midwayensis</i> , <i>Globulina gibba</i> var., <i>Eponides lotus</i> , <i>Cibicides praecursorius</i> at 356-371.		

**Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):**

Limestone and sand: as above; marl, bluish-gray, silty, micaceous, pyritiferous, fossiliferous (macrofossils, Ostracods, and Foraminifera) .....	9	494
<i>Anomalina pseudopapillosa</i> at 485-494.		
Indurated sand: fine-grained, glauconitic, micaceous, fossiliferous (macroshells, Ostracods, and Foraminifera); marl, as above .....	45	539
Marl: bluish-gray, silty, micaceous, pyritiferous, fossiliferous (macroshells and microfossils) .....	489	1,028
<i>Planulina taylorensis</i> at 936-952.		

**Summary:**

Residuum .....	62	62
Middle Eocene (Claiborne group, undifferentiated) .....	145	207
Lower Eocene (Wilcox group, undifferentiated) .....	89	296
Paleocene (Clayton formation) .....	189	485
Upper Cretaceous (post-Tuscaloosa, undifferentiated) .....	543	1,028

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	115	207
Sand: fine to coarse-grained .....	29	310
Limestone .....	129	485



## TERRELL COUNTY

Location: 1.8 mi. north of Salem A.M.E. Church, 3.8 mi.  
south of Dawson-Smithville Highway 118  
Owner: No. 1 A. P. Lane  
Driller: C. M. Eubanks

Well No.: GGS 285  
Elev.: 211

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, argillaceous, brick-red, limonitic	20	20
Clay: as above, with fragments of residual limestone	20	40
<i>Quinqueloculina</i> sp. at 20-30.		
Sand: fine to coarse-grained, angular, and fragments of residual limestone	40	80

**Middle Eocene: Claiborne Group (Undifferentiated):**

Sand: fine to coarse-grained, fossiliferous (macroshells); some clay, pale-green, fissile, somewhat indurated, sandy, micaceous, carbonaceous	20	100
Sand: fine to coarse-grained, angular	30	130

**Summary:**

Residuum	80	80
Middle Eocene (Claiborne group, undifferentiated)	50	130

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained	30	130
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## TERRELL COUNTY

Location: Approximately 6 mi. southwest of Dawson,  
south side of Highway 82 at Graves School  
Owner: No. 1 Graves School  
Driller: Layne-Atlantic Company  
Drilled: July 1953

Well No.: GGS 350  
Elev.: 351

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, coarser-grained at depth; interbedded clay, light-gray to brick-red, very sandy, limonitic	56	56
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Clay: olive-green to tan to red (somewhat mottled), sandy; sand, fine to coarse-grained	10	66

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, somewhat indurated .....	10	76
Sand: fine to coarse-grained, angular .....	24	100
Sand: fine to coarse-grained, sparsely phosphatic; interbedded clay, yellowish-green, fissile, sandy, micaceous .....	62	162

**Lower Eocene: Wilcox Group (Undifferentiated):**

Clay: dark-gray, silty, carbonaceous, micaceous, pyritiferous; interbedded, well separated, relatively thin beds of limestone, gray, dense, sandy, glauconitic, fossiliferous (macroshells) .....	80	242
Sand: fine to coarse-grained, subangular, micaceous, abundantly glauconitic, more indurated with depth, fossiliferous (some macroshells) .....	18	260

**Paleocene: Midway Group: Clayton Formation:**

Sand: fine to coarse-grained, subangular, scattered grains of pale-green quartz; some clay, dark-gray, silty, micaceous.....	44	304
Clay (or fuller's earth): light-gray, blocky, silty, carbonaceous, micaceous .....	10	314
Limestone: light-gray, dense (much calcitized), somewhat saccharoidal, sandy, fossiliferous (casts and molds of megafossils) .....	19	333

**Summary:**

Residuum .....	56	56
Middle Eocene (Claiborne group, undifferentiated) .....	106	162
Lower Eocene (Wilcox group, undifferentiated) .....	98	260
Paleocene (Clayton formation) .....	73	333

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	60	160
Sand: fine to coarse-grained .....	26	304
Limestone .....	19	333

**Remarks:**

Samples of poor quality.

## TERRELL COUNTY

Location: In Dawson  
 Owner: No. 1 Dawson Cotton Mill  
 Driller: Layne-Atlantic Company  
 Drilled: June 1953

Well No.: GGS 352  
 Elev.: 345

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, angular; interbedded clay, mottled, sandy, limonitic; residual limestone, yellow, iron-stained, fossiliferous (Foraminifera) .....	82	82
<i>Rotalia byramensis</i> var., <i>Quinqueloculina</i> sp. at 15-23.		
<i>Spiroloculina</i> sp. at 23-33.		
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Sand: fine to coarse-grained, limonitic, fossiliferous (macroshells at depth); interbedded clay, yellowish-green to cream, sandy, fossiliferous (Foraminifera at certain horizons).....	108	190
<i>Cibicides westi</i> , <i>Cibicides</i> cf. <i>C. refulgens</i> at 105-125.		
Abundant macroshells at 94-105.		
Sand: as above .....	14	204
<i>Cibicides tallahattensis</i> and abundant macroshells at 190-201.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Limestone: gray, extremely dense, crystalline, sandy, coarsely glauconitic, fossiliferous (macroshells); some clay, dark-gray, silty, carbonaceous, micaceous, pyritiferous .....	24	228
Clay: as above, glauconitic and fossiliferous at depth .....	51	279
<i>Eponides dorfi</i> , <i>Anomalina umbonifera</i> , <i>Cibicides praecursorius</i> at 217-228.		
Sand: fine to medium-grained, subangular, abundantly glauconitic, fossiliferous (macroshells and fish teeth) .....	31	310
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine to coarse-grained, subangular, scattered grains of pale-green quartz; some clay (or fuller's earth), light-gray, silty, somewhat indurated, blocky, carbonaceous, micaceous.....	20	330
Clay (or fuller's earth): as above .....	5	335

	Thickness (feet)	Depth (feet)
Limestone: light-gray, dense (much calcitized), sandy, coarsely glauconitic, pyritiferous, fossiliferous (macroshells, bryozoan remains, Ostracods and Foraminifera) .....	98	433
<i>Eponides lotus</i> , <i>Globulina gibba</i> var., <i>Anomalina midwayensis</i> , <i>Cibicides howelli</i> , <i>Cibicides praecursorius</i> at 335-367.		

**Summary:**

Residuum .....	82	82
Middle Eocene (Claiborne group, undifferentiated) .....	122	204
Lower Eocene (Wilcox group, undifferentiated) .....	106	310
Paleocene (Clayton formation) .....	123	433

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	75	190
Sand: fine to coarse-grained .....	41	320
Limestone .....	98	433

**Remarks:**

Well cuttings of poor quality; not good enough to differentiate the Claiborne group.

**TERRELL COUNTY**

Location: In Sasser  
 Owner: City of Sasser  
 Driller: Layne-Atlantic Company

Well No.: GGS 368  
 Elev.: 315

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, angular, limonitic; some clay, dark-brown, sandy, carbonaceous .....	5	5
Clay: light-gray to red (mottled), sandy, limonitic .....	30	35
Clay: olive-green to tan, sandy; some mottled clay, as above .....	8	43
Clay: as above, with fragments of residual limestone, yellow to white, much leached, fossiliferous (macroshells and bryozoan remains) .....	21	64
Sand: fine to coarse-grained, angular .....	23	87
No samples .....	18	105

	Thickness (feet)	Depth (feet)
<b>In Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Limestone: white, sandy, progressively sandier and more calcitized (dense) with depth, fossiliferous (macroshells and some Foraminifera) .....	70	175
<i>Cibicides westi</i> at 105-115.		
Sand: fine to coarse-grained; some limestone, as above .....	27	202

**Summary:**

Residuum .....	87	87
No samples .....	18	105
In middle Eocene (Claiborne group undifferentiated) .....	97	202

**Potential Water-Bearing Zones:**

Limestone .....	70	175
Sand: fine to coarse-grained .....	27	202

**TERRELL COUNTY**

Location: City of Bronwood  
 Owner: No. 1 City of Bronwood  
 Driller: Layne-Atlantic Company  
 Drilled: November 1954

Well No.: GGS 406  
 Elev.: 375

	Thickness (feet)	Depth (feet)
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**Residuum:**

Sand: fine to coarse-grained, angular; some clay, light-gray to brick-red (mottled), sandy .....	10	10
Clay: white to brick-red (mottled), sandy, limonitic .....	24	34
Clay: chocolate, blocky, carbonaceous, sandy; fragments of residual limestone .....	21	55
Sand: fine to coarse-grained, angular; some clay, as above .....	13	68

**Middle Eocene: Claiborne Group (Undifferentiated):**

Limestone: yellow to white, dense (much calcitized), saccharoidal, very sandy, fossiliferous (fragments and molds of macroshells, echinoid remains, and some Foraminifera) .....	26	94
Clay: yellowish-green, fissile, somewhat carbonaceous, micaceous, sandy, fossiliferous (Foraminifera) .....	10	104

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, angular ..... <i>Cibicides westi</i> at 126.	30	134
Sand: fine to coarse-grained, subangular; interbedded thin stringers (clay partings) of clay, yellowish-green, somewhat sandy, micaceous, fossiliferous (rare Foraminifera).....	104	238
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray, silty, carbonaceous, micaceous, glauconitic, pyritiferous .....	8	246
Limestone: light-gray, dense, much calcitized, sandy, coarsely glauconitic, fossiliferous (macroshells) .....	8	254
Clay: dark-gray, silty, carbonaceous, micaceous, pyritiferous, glauconitic; interbedded sand, fine to medium-grained, subangular, glauconitic .....	70	324
Indurated sand (or very sandy limestone): fine to coarse-grained, subangular, coarsely glauconitic, fossiliferous (macroshells) .....	6	330
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: gray to red (mottled), silty, micaceous, bauxitic?.....	20	350
Sand: fine to coarse-grained, subangular, scattered grains of pale-green quartz .....	16	366
Clay (or fuller's earth): gray, silty, blocky, carbonaceous, micaceous .....	6	372
Limestone: light-gray, dense, sandy, pyritiferous, glauconitic, fossiliferous (fragments and molds of megafossils, bryozoan remains, Ostracods and Foraminifera); interbedded clay, light-gray to black, fissile, carbonaceous, finely micaceous, fossiliferous (Foraminifera) .....	28	400
<i>Cibicides howelli</i> , <i>Cibicides praecursorius</i> , <i>Siphonina wilcoxensis</i> at 373-382.		
<i>Robulus degolyeri</i> , <i>Discorbis midwayensis</i> var. <i>trinitatensis</i> , <i>Cibicides howelli</i> , <i>Cibicides praecursorius</i> , <i>Alabama wilcoxensis</i> , <i>Valvulineria scrobiculata</i> at 382-392.		
Limestone: light-gray, dense, sandy, coarsely glauconitic, fossiliferous (fragments and molds of megafossils, bryozoan remains, Ostracods and Foraminifera) .....	53	453
<i>Robulus midwayensis</i> , <i>Robulus degolyeri</i> , <i>Eponides lotus</i> , <i>Discorbis midwayensis</i> , <i>Discorbis midwayensis</i> var. <i>trinitatensis</i> , <i>Anomalina midwayensis</i> , <i>Globulina gibba</i> var. at 392-412.		

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum .....	68	68
Middle Eocene (Claiborne group, undifferentiated) .....	170	238
Lower Eocene (Wilcox group, undifferentiated) .....	92	330
Paleocene (Clayton formation) .....	123	453

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	20	126
Sand: fine to coarse-grained .....	50	190
Sand: fine to coarse-grained .....	16	366
Limestone .....	53	453

**TERRELL COUNTY**

Location: Southeastern part of city, west side of Highway 50, in Dawson      Well No.: GGS 407  
 Elev.: 354  
 Owner: No. 1 Matthew Williams  
 Driller: Layne-Atlantic Company  
 Drilled: 1954

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, angular; interbedded clay, mottled, sandy, carbonaceous, limonitic .....	23	23
Sand: as above; clay, chocolate; scattered fragments of residual limestone .....	41	64
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Marl: yellowish-green, somewhat fissile, sandy, micaceous, fossiliferous (some poorly preserved Foraminifera) .....	11	75
<i>Spiroplectammia mississippiensis</i> var., <i>Textularia cuyleri</i> , <i>Siphonina claibornensis</i> , <i>Cibicides westi</i> at 64-75.		
Sand: fine to coarse-grained, angular; some limestone, yellow, sandy, fossiliferous (macroshells and Foraminifera) .....	10	85
Limestone: yellow, dense (much calcitized), saccharoidal, very sandy, fossiliferous (macroshells and Foraminifera) .....	20	105
<i>Asterigerina lisbonensis</i> at 85-105.		
Sand: fine to coarse-grained, angular, coarsely glauconitic, fossiliferous (macroshells) .....	21	126

	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, angular, coarsely glauconitic, sparsely phosphatic; interbedded marl, yellowish-green, fissile, sandy, micaceous, fossiliferous (Foraminifera at certain horizons) .....	74	200
<i>Cibicides tallahattensis</i> at 126-146.		
<i>Cibicides tallahattensis</i> , <i>Valvulineria danvillensis</i> var. <i>gyroidinoides</i> , <i>Cibicides blanpiedi</i> at 167-200.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Limestone: gray, extremely dense and crystalline, sandy, coarsely glauconitic, fossiliferous (some macroshells); some clay, dark-gray, silty, carbonaceous, micaceous, pyritiferous, glauconitic .....	28	228
Clay: dark-gray, silty, carbonaceous, micaceous, glauconitic, pyritiferous, fossiliferous (some Foraminifera at certain levels) .....	62	290
<i>Robulus wilcoxensis</i> , <i>Eponides dorfi</i> , <i>Anomalina umbonifera</i> , <i>Valvulineria scrobiculata</i> , <i>Siphonina wilcoxensis</i> at 228.		
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine to coarse-grained, subangular, scattered grains of pale-green quartz; some clay, gray to red (mottled), silty, micaceous, carbonaceous, bauxitic?.....	20	310
Sand: as above; some clay, dark-gray to black, somewhat fissile, carbonaceous, micaceous .....	51	361
Limestone: light-gray, dense (much calcitized), somewhat sandy, coarsely glauconitic, fossiliferous (fragments and molds of macroshells, bryozoan remains, Ostracods, and Foraminifera); interbedded marl, dark-gray, fissile, carbonaceous, finely micaceous, pyritiferous, fossiliferous (Foraminifera) .....	11	372
<i>Anomalina midwayensis</i> , <i>Robulus midwayensis</i> , <i>Globulina gibba</i> var., <i>Robulus alabamensis</i> , <i>Cibicides howelli</i> at 361-372.		
Limestone: as above .....	62	434
<b>Summary:</b>		
Residuum .....	64	64
Middle Eocene (Lisbon formation) .....	62	126
Middle Eocene (Tallahatta formation) .....	74	200
Lower Eocene (Wilcox group, undifferentiated) .....	90	290
Paleocene (Clayton formation) .....	144	434



	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained .....	95	200
Sand: fine to coarse-grained .....	71	361
Limestone .....	62	434

**TERRELL COUNTY**

Location: About 2 mi. southwest of Dawson  
 Owner: No. 1 Stephen Cocke Fish Hatchery  
 Driller: M. M. Gray and Company  
 Drilled: September 1956

Well No.: GGS 503  
 Elev.: 374

	Thickness (feet)	Depth (feet)
<b>Residuum and Middle Eocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular; some clay, light-gray to brick-red, sandy, limonitic .....	200	200
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray to brown, somewhat fissile, micaceous, carbonaceous, abundantly glauconitic .....	100	300
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine to coarse-grained, subangular, scattered grains of pale green quartz .....	50	350
Clay (or fuller's earth): dark-gray, blocky, silty, micaceous, carbonaceous .....	10	360
Limestone: light-gray to white, dense (much calcitized), sandy, coarsely glauconitic, pyritiferous, fossiliferous (macroshells, bryozoan remains, Ostracods, and Foraminifera) .....	95	455
<i>Gyroidina aequilateralis</i> , <i>Eponides lotus</i> , <i>Globulina gibba</i> , <i>Cibicides praecursorius</i> at 355-365.		
No samples .....	25	480
<b>In Upper Cretaceous (Undifferentiated):</b>		
Marl: bluish-gray, silty, somewhat chalky, pyritiferous, micaceous, fossiliferous (macroshells, Ostracods, and Foraminifera); interbedded sand, fine-grained, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera) .....	100	580
<i>Anomalina pseudopapillosa</i> at 480-490.		
Sand: fine to coarse-grained, angular, micaceous, phosphatic ...	17	597

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum and middle Eocene (undifferentiated) .....	200	200
Lower Eocene (Wilcox group, undifferentiated) .....	100	300
Paleocene (Clayton formation) .....	155	455
No samples .....	25	480
In Upper Cretaceous (undifferentiated) .....	117	597

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	150	200
Sand: fine to coarse-grained .....	50	350
Limestone .....	95	455

**THOMAS COUNTY**

Location: 8 mi. northeast of Thomasville  
 Owner: No. 1 U.S. Army Air Field  
 Driller: Stevens Southern Drilling Company  
 Drilled: September 1942

Well No.: GGS 19  
 Elev.: 225

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, somewhat argillaceous; inclusions of kaolin (at depth), white, somewhat sandy .....	30	30
<b>Miocene (Undifferentiated):</b>		
Clay: white to tan to olive-green, sandy, somewhat carbonaceous; fragments of limestone at depth .....	70	100
Clay: as above; some limestone, white, sandy .....	5	105
Limestone: white to light-brown (latter somewhat dolomitized), dense, crystalline, somewhat saccharoidal, sandy .....	50	155
<b>Oligocene (Undifferentiated):</b>		
Limestone: as above, but somewhat cherty, fossiliferous at depth .....	15	170
<i>Asterigerina</i> cf. <i>A. subacuta</i> at 160.		
Limestone: light-gray to white at depth, nodular, much calcitized, fossiliferous (some macroshells, echinoid and bryozoan remains, and Foraminifera) .....	65	235
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 185.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 225.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Dolomitic limestone: dark-brown to rather light-brown at depth, saccharoidal .....	25	260
Limestone: cream, considerably calcitized, somewhat crystalline, fossiliferous (Foraminifera); interbedded dolomitic limestone, as above.....	40	300
<i>Lepidocyclina</i> sp. and <i>Asterocyclina</i> sp. common at 265.		
<i>Gypsina globula</i> at 280.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	30	30
Miocene (undifferentiated) .....	125	155
Oligocene (undifferentiated) .....	80	235
Upper Eocene (Ocala limestone) .....	65	300

**Potential Water-Bearing Zones:**

Limestone .....	65	300
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**THOMAS COUNTY**

Location: East side of Jackson Street, few hundred yd. east of Atlantic Coast Line R.R. depot at City Water Works in Thomasville  
 Well No.: GGS 132  
 Elev.: 256  
 Owner: City of Thomasville Well No. 5  
 Driller: Layne-Atlantic Company  
 Drilled: February 1949

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, argillaceous, gray to tan (mottled), angular, finely disseminated phosphatic grains .....	35	35
<b>Miocene (Undifferentiated):</b>		
Sand: fine to medium-grained, angular; some clay, light-gray, sandy, gray to light-brown phosphatic pebbles .....	5	40
Limestone: white to light-brown, somewhat dolomitized, saccharoidal at depth, dense, sandy, cherty, sparsely fossiliferous at depth .....	130	170
<i>Archaias</i> sp. at 150-170.		

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: white to cream, nodular, crystalline, much calcitized, fossiliferous (casts and impressions of megafossils and some Foraminifera) .....	130	300
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp., <i>Dictyoconus</i> sp. at 170-300.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Dolomitic limestone: dark-brown to light-brown to white at depth, saccharoidal, gypsiferous .....	205	505
Limestone: light-gray to white, saccharoidal, dense, crystalline, much calcitized, gypsiferous at certain horizons, fossiliferous (macroshells, echinoid remains and Foraminifera) ..	200	705
<i>Lepidocyclina</i> sp., <i>Operculinoides</i> sp. at 505-520.		
<i>Gypsina globula</i> at 530-545.		
<i>Pseudophragmina flintensis</i> at 570-585.		
Limestone: yellowish, crystalline, highly calcitized, somewhat saccharoidal, fossiliferous (Foraminifera) .....	320	1,025
<i>Camerina striatoreticulata</i> , <i>Amphistegina pinarensis</i> var. at 770-790.		
<i>Camerina striatoreticulata</i> abundant at 920-945.		

**In Middle Eocene: Claiborne Group: Lisbon Formation:**

Limestone: cream, granular, rather loosely consolidated, cherty at depth dense, crystalline, coarsely glauconitic; interbedded marl, light-gray, somewhat indurated, fissile.....	587	1,612
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**Tallahatta Formation:**

Sand: fine to coarse-grained, angular, abundantly glauconitic, fossiliferous (some Foraminifera) .....	23	1,635
<i>Operculinoides</i> sp., <i>Asterocyclina</i> sp. at 1612-1620.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	35	35
Miocene (undifferentiated) .....	135	170
Oligocene (undifferentiated) .....	130	300
Upper Eocene (Ocala limestone) .....	725	1,025
In middle Eocene (Lisbon formation) .....	587	1,612
Middle Eocene (Tallahatta formation) .....	23	1,635

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	130	300
Limestone .....	270	770

**Remarks:**

Because the dolomitic limestone above carries gypsum (CaSO<sub>4</sub>) crystals, it yields highly mineralized water and is, therefore, not a source of good ground water. Sand at depth 1612-1635 contained salt water with chlorides approaching that of sea water, hence is not a source of fresh ground water.

**THOMAS COUNTY**

Location: In Thomasville  
 Owner: City of Thomasville  
 Driller: M. M. Gray Drilling Company  
 Drilled: September 1954

Well No.: GGS 401  
 Elev.: 285<sup>1</sup>

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: fine-grained, argillaceous, mottled, limonitic .....	10	10
Sand: fine-grained, argillaceous, olive-green to tan; with inclusions of kaolin, white, sandy .....	25	35

**Miocene (Undifferentiated):**

Clay: white to light-gray to pale-green, sandy, phosphatic .....	15	50
White to light-gray phosphatic pebbles prominent at 40-50.		
Limestone: white, dense, sandy, cherty; interbedded sand, fine to medium-grained, angular; beds of clay, white to light-gray to pale-green, sandy, phosphatic .....	50	100
Limestone: light-brown, somewhat dolomitized and saccharoidal, dense, crystalline, sandy, fossiliferous (casts and molds of megafossils); interbedded clay, as above .....	80	180

**Oligocene (Undifferentiated):**

Limestone: light-gray to white, dense, nodular, much calcitized, fossiliferous (some Foraminifera at various horizons) ..	115	295
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*Asterigerina subacuta* at 180-190.

*Dictyoconus*<sup>2</sup> sp. at 280-290.

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

<sup>2</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Dolomitic limestone: dark-brown, saccharoidal, massive .....	105	400

**Summary:**

Pliocene to Recent (undifferentiated) .....	35	35
Miocene (undifferentiated) .....	145	180
Oligocene (undifferentiated) .....	115	295
Upper Eocene (Ocala limestone) .....	105	400

**Potential Water-Bearing Zones:**

Limestone .....	115	295
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**THOMAS COUNTY**

Location: Approximately 7 mi. south of Meigs  
 Owner: No. 1 Waverly Petroleum Products Company  
 Driller: Layne-Atlantic Company  
 Drilled: 1955

Well No.: GGS 495  
 Elev.: 384

	Thickness (feet)	Depth (feet)
No samples .....	10	10

**In Miocene (Undifferentiated):**

Clay: bluish-gray to purple (mottled), sandy, limonitic .....	5	15
Clay: yellowish-green, very sandy; some mottled clay, as above .....	13	28
No samples .....	9	37
Sand: fine to medium-grained, angular .....	23	60
Clay: yellowish to dark-green, somewhat indurated, tough, phosphatic at depth, sandy; interbedded thin beds of sand, fine to medium-grained, angular .....	107	167
Light-brown phosphatic pebbles common at 126-147.		
Limestone: white to gray to light-brown, dense, somewhat crystalline and saccharoidal, much calcitized, sandy .....	226	393
Limestone: as above but much sandier, phosphatic .....	41	434
Sand: fine to coarse-grained, angular; clay, gray to yellowish-green, somewhat fissile, carbonaceous; limestone, as above.....	82	516

	Thickness (feet)	Depth (feet)
<b>Oligocene and Upper Eocene (Undifferentiated):</b>		
Dolomitic limestone: light-brown, saccharoidal .....	287	803
<i>Pyrgo?</i> sp. at 603-618.		
<i>Rotalia mexicana</i> var. at 680-700.		
Limestone: cream, much calcitized, granular, rather loosely consolidated and porous, fossiliferous (some "small" Foraminifera) .....	102	905
<i>Cibicides ocalanus</i> , <i>Uvigerina dumblei</i> at 803-823.		
<i>Robulus alato-limbatus</i> , <i>Siphonina jacksonensis</i> , <i>Uvigerina dumblei</i> , <i>Dentalina jacksonensis</i> at 823-844.		

**Summary:**

No samples .....	10	10
In Miocene (undifferentiated) .....	506	516
Oligocene and upper Eocene (undifferentiated) .....	389	905

**Potential Water-Bearing Zones:**

Limestone .....	102	905
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**Remarks:**

The limestone section represented by this well is composed largely of dolomitic limestone which yields mineralized water. Hence, this area presents a problem in searching for satisfactory aquifers. There seem to be two possibilities in the solution of this problem, both requiring careful exploration however. The shallower-lying limestones of Miocene age may carry some ground water. Likewise the limestones occurring below 800 feet might deserve further development. However it is known that the mineralization of ground water in this area increases with depth.

**TIFT COUNTY**

Location: About 1 mi. east of Tifton  
 Owner: No. 1 Armour and Company  
 Driller: Layne-Atlantic Company  
 Drilled: June 1945

Well No.: GGS 82  
 Elev.: 330

	Thickness (feet)	Depth (feet)
No samples .....	10	10
<b>In Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic .....	5	15

	Thickness (feet)	Depth (feet)
Clay: light-gray, sandy; interbedded sand, fine to coarse-grained, angular .....	92	107
Clay: dark-green, sandy .....	17	124
Limestone: white, dense, crystalline, sandy; interbedded beds of clay, dark-green, sandy .....	132	256
<i>Sorites</i> sp. at 215-216.		

**Oligocene (Undifferentiated):**

Limestone: cream to white at depth, nodular, much calcitized, massive, fossiliferous (some macroshells, echinoid and bryozoan remains and Foraminifera) .....	119	375
<i>Rotalia mexicana</i> var., <i>Pyrgo</i> sp., <i>Quinqueloculina</i> sp. at 256-264.		
<i>Operculinoides</i> sp., <i>Dictyoconus</i> <sup>1</sup> sp. at 260-276.		
<i>Dictyoconus</i> <sup>1</sup> sp. common at 347-357.		
No samples .....	21	396

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white, crystalline, somewhat calcitized, fossiliferous (macroshells, echinoid and abundant bryozoan remains, and common to abundant Foraminifera) .....	105	501
<i>Asterocyclina</i> sp., <i>Gypsina globula</i> common at 396-419.		
<i>Operculinoides floridensis</i> , <i>Heterostegina ocalana</i> at 459.		

**Summary:**

No samples .....	10	10
In Miocene (undifferentiated) .....	246	256
Oligocene (undifferentiated) .....	119	375
No samples .....	21	396
In upper Eocene (Ocala limestone) .....	105	501

**Potential Water-Bearing Zones:**

Limestone .....	241	501
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<sup>1</sup>Reworked(?) fossil of middle Eocene age.



## TIFT COUNTY

Location: At City Water Works in Tifton  
 Owner: City of Tifton  
 Driller: Stevens Southern Well Drilling Company

Well No.: GGS 292  
 Elev.: 355

	Thickness (feet)	Depth (feet)
No samples .....	20	20
<b>In Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic .....	20	40
Clay: yellowish-green, sandy; interbedded sand, fine to medium-grained, angular .....	90	130
No samples .....	10	140
Clay: as above; interbedded limestone, white, dense, calcitized, sandy .....	50	190
Limestone: white, dense, somewhat crystalline and saccharoidal, sandy .....	80	270

**Oligocene (Undifferentiated):**

Limestone: yellow to white at depth, nodular, cherty, rather massive, somewhat sandy, fossiliferous (some macroshells, echinoid and bryozoan remains, and Foraminifera) .....

70 340

*Rotalia mexicana* var. at 270-280.

*Lepidocyclina* sp., *Gypsina globula*<sup>1</sup> at 300-310.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, highly calcitized and crystalline, fossiliferous at certain levels (echinoid and bryozoan remains and some Foraminifera) .....

200 540

*Gypsina globula* common, *Operculinoides* sp., *Lepidocyclina* sp., and bryozoan remains at 340-350.

*Operculinoides floridensis* at 390-400.

*Asterocyclina nassauensis* at 420-430.

Limestone: light-gray, crystalline and saccharoidal, highly calcitized .....

45 585

**Summary:**

No samples .....	20	20
In Miocene (undifferentiated) .....	250	270
Oligocene (undifferentiated) .....	70	340
Upper Eocene (Ocala limestone) .....	245	585

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	230	540

**TOOMBS COUNTY**

Location: 4.5 mi. south of R.R. in Lyons via U.S. Highway 1, 1.4 mi. west of Highway 1 via east-west dirt road on north side of said road at top of prominent hill  
 Owner: No. 1 Gibson  
 Driller: Tropic Oil and Gas Company  
 Drilled: June 1945

Well No.: GGS 95  
 Elev.: 198

	Thickness (feet)	Depth (feet)
No samples .....	375	375

**In Miocene (Undifferentiated):**

Limestone: white, somewhat recrystallized, calcitized; sand, phosphatic; some clay, pale-green, sandy .....	10	385
No samples .....	15	400
Sand: fine to medium-grained, subangular, phosphatic; some clay, as above; limestone, white, sandy, phosphatic, fossiliferous (macroshells) .....	48	448

**Oligocene (Undifferentiated):**

Limestone: gray, extremely dense, crystalline, cherty, sandy, sparsely phosphatic, fossiliferous (echinoid and bryozoan remains) .....	1	449
Limestone: reddish-brown, rather soft and chalky, fossiliferous (echinoid and bryozoan remains and Foraminifera) .....	37	486
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 449-456.		
No samples .....	20	506

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: reddish-brown, soft and somewhat chalky, very fossiliferous at certain levels (echinoid and bryozoan remains and "larger" Foraminifera) .....	128	634
<i>Camerina striatoreticulata</i> common to abundant, <i>Lepidocyclina</i> sp. at 512-520.		

	Thickness (feet)	Depth (feet)
Limestone: cream, soft, fossiliferous ("larger Foraminifera" and bryozoan remains) .....	126	760
<i>Lepidocyclina</i> sp. common at 634-662.		
<i>Operculina mariannensis</i> at 740-750.		

#### Middle Eocene: Claiborne Group: Lisbon Formation:

Limestone: light-gray, calcitized and granular, somewhat loosely consolidated, glauconitic at depth, fossiliferous at certain levels (megafossils, echinoid and bryozoan remains, and some Foraminifera); interbedded dolomitic limestone, gray, saccharoidal, glauconitic at depth.....	330	1,090
<i>Asterigerina</i> sp., <i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Discorbis assulata</i> , <i>Gyroldina soldanii</i> var., <i>Cibicides americanus</i> var. at 760-770.		
Glauconite common at 1033-1088.		

#### Tallahatta Formation:

Limestone: as above; interbedded sand, fine to medium-grained, subangular, coarsely glauconitic; limestone, white, rather massive, coarsely glauconitic, fossiliferous (fragments, casts and molds of megafossils) .....	90	1,180
Sand: fine to medium-grained, subangular, phosphatic, somewhat indurated at certain levels .....	130	1,310

#### In Lower Eocene(?): Wilcox Group (Undifferentiated):

Clay: dark-gray, somewhat indurated and fissile, micaceous, carbonaceous, glauconitic, fossiliferous (megafossils and some Foraminifera); interbedded thin beds of claystone, dark-gray, dense, abundantly glauconitic, cherty; beds of sand, as above.....	145	1,455
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#### Paleocene: Midway Group: Clayton Formation:

Limestone: light-gray, dense, crystalline, sandy, coarsely glauconitic, fossiliferous at certain levels (macroshells with bryozoan remains); interbedded clay, dark-gray to black, somewhat fissile, carbonaceous, micaceous.....	90	1,545
Sand: medium-grained, angular; interbedded clay, as above.....	155	1,700

#### Upper Cretaceous(?) (Undifferentiated):

Sand: fine to coarse-grained, angular; clay, dark-gray, somewhat fissile, micaceous, pyritiferous.....	151	1,851
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	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Sand: fine to medium-grained, angular; interbedded clay, dark-gray, micaceous, pyritiferous, fossiliferous at certain horizons (Foraminifera) .....	149	2,000
<i>Anomalina pseudopapillosa</i> at 1851-1856.		
<i>Planulina taylorensis</i> at 2157-2162.		
Marl: dark-gray to brown at depth, silty, carbonaceous, micaceous, pyritiferous, fossiliferous at certain horizons (macroshells and Foraminifera) .....	358	2,358
Marl: as above; interbedded sand, fine to medium-grained, angular, glauconitic, phosphatic, fossiliferous at certain horizons (macroshells) .....	262	2,620
Sand: fine to medium-grained, angular, phosphatic, somewhat indurated, fossiliferous (macroshells) .....	50	2,670
<b>Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, arkosic; relatively thin stringers of clay, gray to pale-green, somewhat fissile, iron-stained, micaceous, sandy .....	130	2,800
Clay or shale: gray, carbonaceous, micaceous having a somewhat speckled appearance; interbedded sand, fine to coarse-grained, angular, arkosic .....	130	2,930
Sand: fine to coarse-grained, angular .....	91	3,021
Sand: coarse-grained, angular, arkosic, rather massive; interbedded clay, green to red (mottled), micaceous, sideritic, sandy .....	489	3,510
<b>Lower Cretaceous(?) (Undifferentiated):</b>		
Clay: mottled, waxy, highly micaceous, sandy; interbedded sand, fine to coarse-grained, angular, arkosic .....	153	3,663
Sideritic nodules common at 3552-3562.		
<b>Basement Complex (Undifferentiated):</b>		
Crystalline rocks .....	17	3,680
<b>Summary:</b>		
No samples .....	375	375
In Miocene (undifferentiated) .....	73	448
Oligocene (undifferentiated) .....	38	486
No samples .....	20	506
In upper Eocene (Ocala limestone) .....	254	760

	Thickness (feet)	Depth (feet)
Middle Eocene (Lisbon formation) .....	330	1,090
Middle Eocene (Tallahatta formation) .....	220	1,310
In lower Eocene (?) (Wilcox group, undifferentiated) .....	145	1,455
Paleocene (Clayton formation) .....	245	1,700
Upper Cretaceous (?) (undifferentiated) .....	151	1,851
Upper Cretaceous (post-Tuscaloosa, undifferentiated) .....	819	2,670
Upper Cretaceous (Tuscaloosa formation) .....	840	3,510
Lower Cretaceous (?) (undifferentiated) .....	153	3,663
Basement complex (undifferentiated) .....	17	3,680

**Potential Water-Bearing Zones:**

Limestone .....	310	760
Sand: fine to medium-grained .....	130	1,310
Sand: medium-grained .....	135	1,680

**TREUTLEN COUNTY**

Location: 6 mi. west of Soperton, Land Lot 221, Ga.      Well No.: GGS 127  
 Military District 1386      Elev.: 291  
 Owner: No. 1 James Fowler  
 Driller: Rose and Ray  
 Drilled: 1940

	Thickness (feet)	Depth (feet)
No samples .....	765	765

**In Middle Eocene: Claiborne Group (Undifferentiated):**

Limestone: light-gray to white, dense, crystalline, sandy, phosphatic (finely disseminated), coarsely glauconitic, fossiliferous (fragments, casts and molds of megafossils, Ostracods and Foraminifera) .....

	130	895
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*Nonion advena*, *Gyroidina soldanii* var., *Eponides jacksonensis*, *Nonion inexcavatus*, *Cibicides pseudoungerianus*, *Cibicides americanus* var. at 765-815.

*Lepidocyclina (Polylepidina) antillea*, *Asterigerina* sp. at 815-825.

*Asterocyclina monticellensis* at 835-855.

Indurated sand: dark-gray, somewhat argillaceous, dense, phosphatic (finely disseminated), carbonaceous, micaceous, fossiliferous (some Foraminifera) .....

	20	915
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*Cibicides blampiedi* at 895-915.

	Thickness (feet)	Depth (feet)
Limestone: gray, dense, crystalline, sandy, coarsely glauconitic; interbedded marl, light-gray, silty, micaceous, carbonaceous, glauconitic (finely disseminated), fossiliferous (some Foraminifera) .....	30	945
<i>Reussella subrotundata</i> , <i>Cibicides mauricensis</i> at 915-935.		
Indurated sand: as above, but fossiliferous (a coquina) .....	20	965
No samples .....	20	985
Limestone: gray, dense, coarsely glauconitic, sandy, fossiliferous (abundant macroshells and some Foraminifera) .....	20	1,005
Sand: fine to coarse-grained, phosphatic .....	80	1,085
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray, somewhat fissile, silty, lignitic, micaceous; interbedded sand, fine to medium grained .....	170	1,255
<i>Siphonina prima</i> at 1165-1185.		
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: gray to white at depth, dense, crystalline, sandy, coarsely glauconitic, fossiliferous (casts and molds of megafossils, bryozoan remains, and Foraminifera) .....	40	1,295
<i>Robulus</i> sp., <i>Discorbis midwayensis</i> , <i>Discorbis midwayensis</i> var. <i>trinitatensis</i> , <i>Sigmomorphina semitecta</i> var., <i>Valvulineria scrobiculata</i> , <i>Eponides lotus</i> , <i>Siphonina wilcoxensis</i> , <i>Cibicides howelli</i> at 1275-1295.		
Sand: fine to coarse-grained .....	20	1,315
<b>In Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Sand: as above; some clay, chocolate-brown to dark-gray, micaceous, somewhat fissile .....	20	1,335
Sand: fine to coarse-grained, angular, arkosic, grains of "rose quartz" .....	80	1,415
No samples .....	140	1,555
Clay: brown, carbonaceous, very micaceous, pyritiferous, fossiliferous (macroshells and Foraminifera at certain levels); interbedded sand, fine to coarse-grained, angular .....	320	1,875
<i>Planulina taylorensis</i> at 1695-1715.		
<i>Kyphopyxa christneri</i> at 1795-1815.		
Sand: fine to coarse-grained, angular, highly micaceous, abundantly phosphatic; interbedded shale, dark-gray, fissile, micaceous (finely disseminated, "speckled") .....	130	2,005
No samples .....	30	2,035

	Thickness (feet)	Depth (feet)
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**In Tuscaloosa Formation:**

Sand: fine to coarse-grained, angular; interbedded clay, yellowish-green, fissile, micaceous, somewhat carbonaceous.....	90	2,125
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**Summary:**

No samples .....	765	765
In middle Eocene (Claiborne group, undifferentiated) .....	320	1,085
Lower Eocene (Wilcox group, undifferentiated) .....	170	1,255
Paleocene (Clayton formation) .....	60	1,315
In Upper Cretaceous (post-Tuscaloosa, undifferentiated) .....	690	2,005
No samples .....	30	2,035
In Upper Cretaceous (Tuscaloosa formation) .....	90	2,125

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	80	1,085
Sand: fine to coarse-grained .....	80	1,415

**Remarks:**

The Ocala limestone lies somewhere in the interval 0-765 and constitutes an additional source of ground water besides being at a much shallower depth below land surface datum than the aquifers noted above.

**TURNER COUNTY**

Location: 0.7 mi. northwest of Coverdale  
 Owner: No. 1 C. W. Dearso  
 Driller: Winter Hardware Company  
 Drilled: October 1942

Well No.: GGS 2  
 Elev.: 413

	Thickness (feet)	Depth (feet)
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No samples .....	10	10
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**In Miocene (Undifferentiated):**

Clay: gray, sandy; interbedded sand, fine to coarse-grained, angular .....	70	80
Clay: yellowish-green, sandy; interbedded sand, as above.....	155	235

**Oligocene (Undifferentiated):**

Limestone: white, dense, nodular, calcitized, fossiliferous (bryozoan remains and some Foraminifera) .....	25	260
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*Rotalia mexicana* var. at 240-260.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
No samples .....	10	10
In Miocene (undifferentiated).....	225	235
Oligocene (undifferentiated) .....	25	260

**Potential Water-Bearing Zones:**

Limestone .....	25	260
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**TURNER COUNTY**

Location: ½ mi. northwest of Coverdale on State Highway 112      Well No.: GGS 13  
 Owner: No. 1 J. W. Hallman      Elev.: 399  
 Driller: Winter Hardware Company  
 Drilled: October 1942

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic.....	100	100
Clay: yellowish-green, sandy; interbedded sand, fine to coarse-grained, angular, arkosic.....	80	180
Limestone: white, dense, sandy.....	20	200

**In Oligocene (Undifferentiated):**

Limestone: white, dense, nodular, recrystallized, fossiliferous (some Foraminifera) .....	40	240
<i>Rotalia mexicana</i> var., <i>Asterigerina subacuta</i> at 200-220.		

**Summary:**

Miocene (undifferentiated) .....	200	200
In Oligocene (undifferentiated).....	40	240

**Potential Water-Bearing Zones:**

Limestone .....	40	240
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## TURNER COUNTY

Location: 4 mi. southwest of Ashburn on Highway 112, Well No.: GGS 164  
 Land Lot 50, 2nd Land District  
 Owner: No. 1 W. B. Hobby  
 Driller: W. B. Graham  
 Drilled: 1947

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic.....	30	30
Clay: light-gray, sandy; interbedded sand, fine to coarse-grained, angular.....	60	90
Clay: dark-green, sandy, somewhat indurated at certain levels....	90	180
Limestone: white, dense, sandy.....	20	200

**Oligocene (Undifferentiated):**

Limestone: white, nodular, recrystallized, much calcitized, fossiliferous (some Foraminifera).....	120	320
<i>Rotalia mexicana</i> var., <i>Pyrgo</i> sp., <i>Gypsina globula</i> <sup>1</sup> , <i>Dictyonconus</i> <sup>1</sup> sp. at 200-210.		
<i>Asterigerina subacuta</i> at 250-260.		
<i>Lepidocyclina</i> sp. at 300-310.		

**Summary:**

Miocene (undifferentiated).....	200	200
Oligocene (undifferentiated).....	120	320

**Potential Water-Bearing Zones:**

Limestone.....	120	320
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## TURNER COUNTY

Location: 3.75 mi. (map distance) northwest of Ashburn, Well No.: GGS 210  
 near Highway 7 on county side road Elev.: 386  
 Owner: No. 1 V. H. Burke  
 Driller: H. B. Truluck

	Thickness (feet)	Depth (feet)
No samples.....	35	35
<b>In Miocene (Undifferentiated):</b>		
Clay: light-gray, sandy; interbedded sand, fine to coarse-grained, angular, arkosic.....	70	105

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Limestone: cream, sandy, cherty at certain levels; some clay, yellowish-green, sandy .....	30	135
Clay: yellowish-green, sandy, somewhat indurated.....	10	145

**In Oligocene (Undifferentiated):**

Limestone: white, dense, crystalline, calcitized, fossiliferous (macroshells, bryozoan remains, and some Foraminifera).....	40	185
<i>Asterigerina</i> sp. at 145-155.		
<i>Rotalia mexicana</i> var. at 155-165.		
No samples .....	40	225
Limestone: as above, but more calcitized; some sand, fine to medium-grained, angular .....	?	225

**Summary:**

No samples .....	35	35
In Miocene (undifferentiated).....	110	145
In Oligocene (undifferentiated).....	80	225

**Potential Water-Bearing Zones:**

Limestone .....	40	185
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**TURNER COUNTY**

Location: In Ashburn  
 Owner: No. 1 Manhattan Shirt Company  
 Driller: M. M. Gray Drilling Company  
 Drilled: 1958

Well No.: GGS 557  
 Elev.: 430

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: pale-green to tan to purple to red (mottled), sandy, limonitic; interbedded sand, fine to coarse-grained, angular, arkosic .....	190	190
Clay: pale-green, blocky, sandy; interbedded sand, as above; limestone, white, sandy.....	90	280

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: white to cream, nodular, massive, much calcitized, fossiliferous (some megafossils, bryozoan remains, and Foraminifera) .....	105	385
<i>Asterigerina subacuta</i> , <i>Gypsina globula</i> <sup>1</sup> at 280-290.		
<i>Rotalia mexicana</i> var. at 290-300.		
<i>Lepidocyclina</i> sp. at 300-310.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream to light-brown, somewhat dolomitized at certain levels, much calcitized, granular, fossiliferous (common to abundant bryozoan remains and Foraminifera) .....	140	525
<i>Lepidocyclina chaperi</i> at 385-395.		
<i>Robulus</i> sp., <i>Eponides jacksonensis</i> , <i>Gypsina globula</i> , <i>Lepidocyclina chaperi</i> at 395-405.		
Sand: fine to coarse-grained, angular; limestone, white to cream-colored, somewhat granular and calcitized, fossiliferous ("larger Foraminifera") .....	30	555
<i>Asterocyclina</i> sp. at 525-535.		
Limestone: cream, rather soft and porous, granular, much calcitized, fossiliferous ("larger Foraminifera") .....	110	665
<i>Operculina</i> cf. <i>O. mariannensis</i> , <i>Camerina striatoreticulata</i> at 555-565.		
<i>Amphistegina pinarensis</i> var. at 575-585.		
<i>Asterocyclina</i> sp. common at 635-645.		
No samples .....	5	670
<b>In Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Marl: light-gray, silty, micaceous, fossiliferous (some Foraminifera at certain levels); interbedded limestone, dark-green, massive, dense, crystalline, coarsely glauconitic at depth, pyritiferous, fossiliferous (megafossils and some bryozoan remains) .....	80	750
<i>Operculinoides</i> sp., <i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> at 670-680.		
Sand: fine to coarse-grained, angular, phosphatic; some marl and limestone, as above .....	20	770

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
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**Summary:**

Miocene (undifferentiated) .....	280	280
Oligocene (undifferentiated) .....	105	385
Upper Eocene (Ocala limestone).....	280	665
No samples .....	5	670
In middle Eocene (Lisbon formation).....	100	770

**Potential Water-Bearing Zones:**

Limestone .....	245	525
Limestone .....	110	665
Sand: fine to coarse-grained.....	20	770

**TURNER COUNTY**

Location: In Ashburn  
 Owner: City of Ashburn  
 Driller: Layne-Atlantic Company  
 Drilled: July 1957

Well No.: GGS 565  
 Elev.: 430

	Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Clay: mottled, blocky, sandy, limonitic; interbedded sand, fine to coarse-grained, subangular, arkosic.....	87	87
Clay: as above, but somewhat indurated, tough; sand, as above..	125	212

**Oligocene (Undifferentiated):**

Limestone: white, somewhat nodular, massive, recrystallized and saccharoidal, fossiliferous (some macroshells, echinoid and bryozoan remains, and Foraminifera).....	63	275
<i>Asterigerina subacuta</i> , <i>Quinqueloculina</i> sp., <i>Dictyoconus</i> <sup>1</sup> sp. at 212-230.		
<i>Rotalia mexicana</i> var. common at 230-232.		
<i>Gypsina globula</i> <sup>1</sup> at 260-270.		
Limestone: cream, massive, calcitized, somewhat nodular, cherty, relatively unfossiliferous.....	115	390

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, calcitized, granular (in texture), fossiliferous at certain levels (bryozoan remains and Foraminifera) .....	260	650
<i>Lepidocyclus chaperi</i> at 397-419.		
<i>Lepidocyclus ocalana</i> at 541-551.		
<i>Amphistegina pinarensis</i> var. at 582-595.		

**Summary:**

Miocene (undifferentiated) .....	212	212
Oligocene (undifferentiated) .....	178	390
In upper Eocene (Ocala limestone) .....	260	650

**Potential Water-Bearing Zones:**

Limestone .....	438	650
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**TWIGGS COUNTY**

Location: Approximately 3.5 mi. east of Huber, 2.5 mi. east of U.S. Highway 129, and 1.5 mi. south of a cross-roads at machine shop

Well No.: GGS 354  
Elev.: 507

Owner: J. M. Huber Company  
Driller: Southeastern Drilling Company  
Drilled: August 1953

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Clay: red, very sandy, limonitic .....	20	20
Clay: yellowish-green, carbonaceous, blocky .....	30	50
Limestone: white, somewhat leached, sandy at depth, fossiliferous (macroshells, echinoid and abundant bryozoan remains) .....	40	90
Sand: fine to coarse-grained, angular; inclusions of kaolin, white, micaceous .....	20	110

**Upper Cretaceous: Tuscaloosa Formation:**

Sand: fine to coarse-grained, angular .....	30	140
Kaolin: white to dark-gray, micaceous, carbonaceous, sandy .....	20	160
Sand: fine to coarse-grained, angular .....	25	185

**Summary:**

	Thickness (feet)	Depth (feet)
Upper Eocene (Barnwell formation).....	110	110
Upper Cretaceous (Tuscaloosa formation).....	75	185

**Potential Water-Bearing Zones:**

None because static water level is below total depth of well.

**TWIGGS COUNTY**

Location: Few hundred yards south of Well 354  
 Owner: J. M. Huber Company  
 Driller: Layne-Atlantic Company  
 Drilled: October 1953

Well No.: GGS 360  
 Elev.: 470

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Clay: olive-green to red (mottled), very sandy, limonitic.....	15	15
Clay: yellowish-green, sandy; fragments of limestone.....	17	32
Limestone: white, very sandy.....	14	46
Sand: fine to coarse-grained, somewhat arkosic.....	60	106
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular; interbedded clay (or kaolin).....	230	336
Kaolin: white, micaceous.....	6	342

**Summary:**

Upper Eocene (Barnwell formation).....	106	106
Upper Cretaceous (Tuscaloosa formation).....	236	342

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	60	260
Sand: fine to coarse-grained.....	31	305
Sand: fine to coarse-grained.....	18	336

**Remarks:**

Well samples of poor quality.

## TWIGGS COUNTY

Location: Approximately 1 mi. south of Dry Branch, 1.5  
mi. east of U.S. Highway 80

Well No.: GGS 415

Elev.: 430

Owner: Georgia Kaolin Company

Driller: Layne-Atlantic Company

Drilled: March 1955

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Sand: fine to medium-grained, gray, argillaceous.....	24	24
Sand: fine to coarse-grained, angular, somewhat arkosic.....	20	44
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Kaolin: micaceous, somewhat sandy.....	21	65
Sand: fine to coarse-grained, angular, arkosic.....	117	182
Kaolin: mottled, micaceous, somewhat sandy.....	12	194
Sand: coarse-grained, angular; kaolin, white.....	14	208
Clay: brick-red, micaceous, sandy.....	23	231
Sand: fine to coarse-grained, angular, arkosic.....	141	372
<b>Summary:</b>		
Upper Eocene (Barnwell formation).....	44	44
Upper Cretaceous (Tuscaloosa formation).....	328	372

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	100	331
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**Remarks:**

Well samples of poor quality.

## TWIGGS COUNTY

Location: Northeastern part of county, 1.75 mi. southeast  
of Liberty Church which is 0.75 mi. east of Myerick's Pond

Well No.: GGS 416

Elev.: 380

Owner: No. 23 Georgia Kaolin Co.

Driller: Layne-Atlantic Company

Drilled: March 1955

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Clay: mottled, very sandy, limonitic.....	6	6

WELL LOGS OF THE COASTAL PLAIN OF GEORGIA

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	Thickness (feet)	Depth (feet)
Marl: light-gray, silty, glauconitic.....	17	23
Sand: fine to coarse-grained, angular, phosphatic; interbedded marl, as above.....	45	68
Sand: fine to coarse-grained, angular.....	22	90

**Upper Cretaceous: Tuscaloosa Formation:**

Clay: light-gray, sandy, micaceous.....	10	100
Sand: fine to coarse-grained, angular, somewhat arkosic; interbedded clay, as above.....	85	185
Sand: coarse-grained, angular, arkosic; interbedded thin beds of kaolin.....	248	433

**Summary:**

Upper Eocene (Barnwell formation).....	90	90
Upper Cretaceous (Tuscaloosa formation).....	343	433

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	228	413
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**Remarks:**

Well samples of poor quality.

**WARE COUNTY**

Location: At Airport, City of Waycross  
 Owner: No. 1 Waycross Airport  
 Driller: Layne-Atlantic Company

Well No.: GGS 36  
 Elev.: 142

**Pliocene to Recent (Undifferentiated):**

Sand: fine to coarse-grained, finely disseminated phosphatic grains.....	15	15
Clay: pale-green to red (mottled), sandy.....	10	25
Sand: medium to coarse-grained, arkosic.....	17	42
Sand: as above; clay, tan to red (mottled), sandy; fragments of limestone, light-gray, dense, sandy.....	20	62

**Miocene (Undifferentiated):**

Clay: dark-green, sandy; interbedded sand, fine to coarse- grained, phosphatic.....	265	327
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	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, phosphatic.....	50	377
Sand: as above; interbedded limestone, white, sandy; clay, dark-green, sandy, phosphatic.....	63	440
Dolomitic limestone: light-brown, saccharoidal, sandy, phos- phatic .....	50	490

**Oligocene (Undifferentiated):**

Limestone: light-gray, dense (much calcitized), nodular, fos- siliferous (some Foraminifera).....	8	498
<i>Dictyoconus</i> <sup>1</sup> sp. at 490-498.		

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream, much calcitized, saccharoidal, fossiliferous (Foraminifera) .....	123	621
<i>Gypsina globula</i> , <i>Operculinoides floridensis</i> at 550-560.		
<i>Asterocyclina nassauensis</i> at 570-580.		

**Summary:**

Pliocene to Recent (undifferentiated).....	62	62
Miocene (undifferentiated) .....	428	490
Oligocene (undifferentiated) .....	8	498
Upper Eocene (Ocala limestone).....	123	621

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	50	377
Limestone .....	131	621

**WARE COUNTY**

Location: In City of Waycross  
 Owner: No. 3 City of Waycross  
 Driller: Layne-Atlantic Company

Well No.: GGS 366  
 Elev.: 140

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, finely disseminated phosphatic grains and scattered kaolin inclusions.....	10	10
Sand: fine to coarse-grained, arkosic, rounded; clay, light- gray to red (mottled), sandy.....	15	25
Clay: pale-green to purple (mottled), sandy.....	15	40
Sand: fine to coarse-grained, arkosic, rounded.....	25	65

<sup>1</sup>Reworked(?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy; interbedded sand, fine to coarse-grained, phosphatic .....	135	200
Sand: fine to coarse-grained, phosphatic .....	50	250
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; interbedded limestone, white, sandy; sand, fine to coarse-grained, phosphatic .....	90	340
Clay: light-gray, calcareous .....	20	360
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; interbedded limestone, white, sandy; sand, fine to coarse-grained, phosphatic .....	70	430
Limestone: white, dense (much calcitized), sandy, phosphatic, fossiliferous (fragments and molds of megafossils) .....	60	490

**Oligocene (Undifferentiated):**

Limestone: light-gray, dense (much calcitized), nodular, fossiliferous (some Foraminifera) .....	20	510
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*Dictyoconus*<sup>1</sup> sp., *Quinqueloculina* sp. at 490-500.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white, dense (much calcitized), fossiliferous (Foraminifera) .....	265	775
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*Gypsina globula* at 510-520.

*Asterocyclina nassauensis*, *Operculinoides* sp. at 550-560.

*Amphistegina pinarensis* var. at 680-690.

**Summary:**

Pliocene to Recent (undifferentiated) .....	65	65
Miocene (undifferentiated) .....	425	490
Oligocene (undifferentiated) .....	20	510
Upper Eocene (Ocala limestone) .....	265	775

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	50	250
Limestone .....	285	775

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

## WARE COUNTY

Location: 1 block northeast of Post Office at Coca Cola Plant in Waycross  
 Well No.: GGS 527  
 Elev.: 140<sup>1</sup>  
 Owner: No. 1 Coca Cola Company  
 Driller: M. M. Gray Drilling Company  
 Drilled: January 1957

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, argillaceous, finely disseminated phosphatic grains and kaolin inclusions.....	15	15
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, some sand as above.....	25	40
Sand: fine to coarse-grained, angular, arkosic.....	60	100
Sand: coarse-grained, arkosic; clay, dark-green, sandy.....	260	360
Black phosphatic pebbles abundant at 310-320.		
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; interbedded limestone, white, dense (much calcitized), sandy, phosphatic.....	120	480
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, very dense (highly calcitized), fossiliferous (Ostracods and Foraminifera).....	20	500
<i>Dictyoconus</i> <sup>2</sup> sp., <i>Quinqueloculina</i> sp. at 480-490.		
No samples .....	20	520
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: light-gray, very dense (highly calcitized), fossiliferous (abundant Foraminifera).....	170	690
<i>Gypsina globula</i> , <i>Pseudophragmina flintensis</i> , <i>Asterocyclina nassauensis</i> at 520-530.		
Limestone: cream, much calcitized, massive.....	18	708
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	15	15
Miocene (undifferentiated) .....	465	480
Oligocene (undifferentiated) .....	20	500
No samples .....	20	520
In upper Eocene (Ocala limestone).....	188	708

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

<sup>2</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	228	708

**Remarks:**

Samples of poor quality.

**WARE COUNTY**

Location: In Waresboro, northwestern part of Waycross

Well No.: GGS 538

Owner: No. 1 Waresboro Elementary School

Driller: Turner Well Drilling Company

Drilled: April 1957

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: medium to coarse-grained, subangular.....	25	25
Clay: pale-greenish-gray, sandy, micaceous.....	60	85
<b>Miocene (Undifferentiated):</b>		
Clay: dark-olive-green to brownish-gray, sandy.....	62	147
No samples .....	10	157
Sand: fine to medium-grained, subangular.....	10	167
Sand: coarse-grained, subrounded, phosphatic, arkosic.....	10	177
Limestone: light-gray to light-brown, much calcitized, saccharoidal, sandy, phosphatic, cherty.....	31	208
Brownish-gray chert (or siltstone?) prominent at 198-208.		
Clay: greenish-gray, blocky, sandy, phosphatic; interbedded sand, fine to medium-grained, subangular.....	62	270
Limestone: cream to light-brown, saccharoidal, sandy, phosphatic .....	30	300
Sand: medium to coarse-grained, subangular, phosphatic.....	11	311
Limestone: cream to light-gray, saccharoidal, sandy, phosphatic, fossiliferous (megafossils, echinoid and bryozoan remains, and some Foraminifera at depth).....	92	403
First observed megafossils at 311-321.		
<i>Elphidium sagrum</i> , <i>Elphidium poeyanum</i> , <i>Valvulineria</i> sp., <i>Cibicides concentricus</i> at 403-413.		
Limestone: light-brown, saccharoidal, sandy, phosphatic.....	10	413

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray to cream at depth, rather massive, somewhat nodular, fossiliferous (bryozoan remains and some Foraminifera) .....	62	475
<i>Quinqueloculina</i> sp., <i>Rotalia mexicana</i> var. at 413-423.		
<i>Dictyoconus</i> <sup>1</sup> sp., <i>Quinqueloculina</i> sp. at 423-434.		
<i>Gypsina globula</i> <sup>1</sup> at 465-475.		
No samples .....	9	484
<b>In Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, relatively soft and porous, calcitized, granular, fossiliferous (bryozoan remains and some Foraminifera) .....	114	598
<i>Operculinoides</i> sp. at 484-495.		
<i>Asterocyclina</i> sp., <i>Operculinoides</i> sp. at 505-516.		

#### Summary:

Pliocene to Recent (undifferentiated) .....	85	85
Miocene (undifferentiated) .....	328	413
Oligocene (undifferentiated) .....	62	475
No samples .....	9	484
In upper Eocene (Ocala limestone) .....	114	598

#### Potential Water-Bearing Zones:

Limestone .....	114	598
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#### WASHINGTON COUNTY

Location: 1.4 mi. southwest of junction of Highways 15 and 24 in Sandersville, near east side of Highway 15 near concrete reservoir  
 Well No.: GGS 94  
 Elev.: 465  
 Owner: City of Sandersville well no. 5  
 Driller: Layne-Atlantic Company  
 Drilled: June 1944

	Thickness (feet)	Depth (feet)
<b>Miocene: Hawthorn Formation:</b>		
Clay: bluish-green to red (mottled), light-gray at depth, blocky, sandy, limonitic .....	50	50
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Sand: fine to medium-grained, angular, somewhat indurated .....	5	55

<sup>1</sup>Reworked fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Limestone <sup>1</sup> : white, dense, somewhat saccharoidal (calcitized), sandy, much sandier at depth, cherty, coarsely but sparsely glauconitic, fossiliferous (echinoid and bryozoan remains and Ostracods) .....	62	117
Sand: fine to coarse-grained, subangular .....	13	130
Marl: light-gray, silty, blocky, fossiliferous (echinoid and bryozoan remains, macroshells, Ostracods, and Foraminifera) .....	23	153
<i>Elphidium</i> sp., <i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Valvulineria jacksonensis</i> at 132-134.		
Limestone (or coquina): gray, dense, somewhat saccharoidal, very sandy, fossiliferous (fragments and casts and molds of megafossils) .....	13	166
Marl: light-gray, somewhat indurated, fissile, silty, progressively sandier at depth, carbonaceous, fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	16	182
Limestone (or coquina): gray to cream, crystalline to saccharoidal, very sandy, fossiliferous (fragments and molds of megafossils) .....	5	187
Marl: light-brown, somewhat indurated, fissile, carbonaceous, sandy .....	10	197
Sand: fine to coarse-grained, angular .....	5	202
Marl: gray, somewhat indurated, fissile, carbonaceous, sandy .....	5	207
Limestone (or coquina): greenish-gray, dense, very sandy, phosphatic (finely disseminated), fossiliferous (casts and molds of megafossils and bryozoan remains) .....	53	260
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, limonitic; some clay (or kaolin), gray to red (mottled), micaceous; limestone, "cave" from above .....	6	266
Kaolin: gray, blocky, micaceous, somewhat sandy .....	5	271
Kaolin: white, micaceous, somewhat sandy .....	71	342
Clay: gray to dark-brown, lignitic .....	20	362
Sand: fine to coarse-grained; interbedded thin stringers of clay, as above .....	81	443

<sup>1</sup>Probable Sandersville limestone.

	Thickness (feet)	Depth (feet)
Clay: brick-red, micaceous, sandy.....	21	464
Sand: fine to coarse-grained; interbedded clay, gray to dark-brown to black to mottled, micaceous, somewhat sandy, lignitic .....	163	627
Sand: fine to coarse-grained, very coarse-grained and gravelly at depth; interbedded clay, gray to green to red, somewhat fissile, micaceous, sandy.....	244	871
<b>Basement Complex (Undifferentiated):</b>		
Crystalline rock .....	1.5	872.5

**Summary:**

Miocene (Hawthorn formation) .....	50	50
Oligocene(?) (undifferentiated) .....	80	130
Upper Eocene (Barnwell formation).....	130	260
Upper Cretaceous (Tuscaloosa formation).....	611	871
Basement complex (undifferentiated).....	1.5	872.5

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	13	130
Sand: fine to coarse-grained.....	5	202
Sand: fine to coarse-grained.....	6	403
Sand: fine to coarse-grained.....	10	443
Sand: fine to coarse-grained.....	76	500
Sand: fine to coarse-grained.....	39	571
Sand: fine to coarse-grained.....	12	593
Sand: fine to coarse-grained.....	29	669
Sand: fine to coarse-grained.....	17	714
Sand: fine to coarse-grained.....	44	786
Sand: fine to coarse-grained.....	14	869

**WASHINGTON COUNTY**

Location: 2.8 mi. north of Highway 24 at Davisboro and 0.7 mi. west of north-south dirt road, near storage shed  
 Well No.: GGS 152  
 Elev.: 392  
 Owner: Georgia Forest Service  
 Driller: Layne-Atlantic Company  
 Drilled: May 1948

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Clay: brick-red, very sandy, limonitic; fragments of residual limestone .....	33	33

	Thickness (feet)	Depth (feet)
No samples .....	17	50
Sand: fine to medium-grained, much coarser-grained at depth, angular; some clay, gray to cream to pink, and scattered fragments of residual limestone.....	47	97
Sand: fine to coarse-grained; marl, yellowish-green, somewhat fissile, sandy, fossiliferous (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera).....	6	103
<i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Valvulineria jacksonensis</i> , <i>Cibicides lobatulus</i> at 97-103.		
Limestone: gray to yellow, dense, somewhat saccharoidal and crystalline (in texture), very sandy, fossiliferous (macroshells, echinoid and bryozoan remains).....	2	105
Sand: fine to coarse-grained, angular; some marl, cream to yellowish-green to red (mottled), fossiliferous (macroshells and some microfossils).....	48	153
Clay: yellowish-green, noncalcareous, fissile, somewhat bentonitic .....	28	181
Sand: fine to coarse-grained; some clay, yellowish-green to red (mottled), sandy.....	24	205
Limestone: gray, dense, saccharoidal, very sandy, sparsely phosphatic, fossiliferous (fragments, casts and molds of megafossils) .....	14	219
<b>Upper Cretaceous: Tuscaloosa Formation:</b>		
Kaolin: white to gray to pink (mottled), micaceous.....	47	266
Sand: coarse-grained, angular, limonitic.....	260	526
<b>Summary:</b>		
Upper Eocene (Barnwell formation).....	219	219
Upper Cretaceous (Tuscaloosa formation).....	307	526
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	14	219
Sand: coarse-grained .....	260	526

**Remarks:**

Overall quality of samples for this well is poor. Delineation of water-bearing sands below depth of 266 feet is not feasible.



## WASHINGTON COUNTY

Location: 12 mi. northwest of Sandersville  
 Owner: No. 1 Lillian-B  
 Driller: Middle Georgia Oil and Gas Company  
 Drilled: January 1921

Well No.: GGS 223

	Thickness (feet)	Depth (feet)
No samples .....	300	300
<b>In Upper Cretaceous: Tuscaloosa Formation:</b>		
Kaolin: white to cream, sandy, micaceous.....	18	318
Sand: somewhat indurated, fine to coarse-grained, angular, arkosic .....	5	323
Clay: yellow to light-tan, micaceous, very sandy.....	5	328
Kaolin: light-gray, micaceous, very sandy.....	12	340
Clay: tan to olive-green, very sandy, micaceous.....	5	345
Kaolin: light-gray to pink (mottled), very sandy, micaceous .....	5	350
No samples .....	10	360
Clay: reddish-brown, highly micaceous, sandy.....	5	365
Kaolin: cream, very sandy, highly micaceous.....	13	378
No samples .....	3	381
Kaolin: cream, very sandy, highly micaceous.....	11	392
<b>Basement Complex (Undifferentiated):</b>		
Clay: light-gray to yellowish-green, sandy, highly micaceous, flakes of biotite.....	3	395
Crystalline rock <sup>1</sup> .....	?	?

**Summary:**

No samples .....	300	300
In upper Cretaceous (Tuscaloosa formation).....	92	392
Basement complex (undifferentiated).....	3	395

**Potential Water-Bearing Zones:**

None observed in interval covered by available samples.

<sup>1</sup>Unweathered biotite gneiss(?) in sample which apparently was derived below the depth of 392-395, the last sample carrying depth identification. Sample 392-395 appears to be weathered biotite gneiss(?).

## WASHINGTON COUNTY

Location: 12.7 mi. west of Sandersville via Highway 24 and 0.9 mi. north of Highway 24 at quarry  
 Owner: Chemical and Minerals Corporation  
 Driller: Bostick Drilling Company  
 Drilled: May 1955

Well No.: GGS 433  
 Elev.: 318

	Thickness (feet)	Depth <sup>1</sup> (feet)
No samples .....	30	30
<b>In Upper Cretaceous: Tuscaloosa Formation:</b>		
Clay (or kaolin): white to pink (mottled), micaceous, sandy.....	20	50
Sand: fine to coarse-grained, angular; some clay, as above.....	60	110
Sand: fine to coarse-grained, angular.....	30	140
Sand: as above; some clay, brick-red, micaceous, sandy.....	100	240
Sand: coarse-grained, angular.....	80	320

## Summary:

No samples .....	30	30
In upper Cretaceous (Tuscaloosa formation).....	290	320

## Potential Water-Bearing Zones:

Sand: fine to coarse-grained.....	24	128
Sand: fine to coarse-grained.....	20	176
Sand: fine to coarse-grained.....	16	208
Sand: coarse-grained.....	20	290
Sand: coarse-grained.....	15	311

## Remarks:

Overall quality of samples somewhat poor.

## WASHINGTON COUNTY

Location: In Tennile  
 Owner: City of Tennile

Well No.: GGS 521  
 Elev.: 460<sup>1</sup>

	Thickness (feet)	Depth <sup>2</sup> (feet)
No samples .....	55	55
<b>In Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Clay: olive-green to tan, very sandy, limonitic, with inclusions of residual limestone.....	?	55

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

<sup>2</sup>Spot samples at depths listed in log.

	Thickness (feet)	Depth (feet)
Limestone: white, sandy; sand, coarse-grained, subrounded grains .....	?	90
Sand: fine to medium-grained, angular, fossiliferous (some macroshells); some clay, yellowish-green .....	?	150
Clay: yellowish-green, sandy, finely disseminated phosphatic grains, fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	?	245
<i>Siphonina jacksonensis</i> , <i>Valvulineria jacksonensis</i> , <i>Nonion advena</i> , <i>Cibicides</i> cf. <i>C. refulgens</i> , <i>Cibicides lobatulus</i> at 245.		

#### Summary:

No samples .....	55	55
In upper Eocene (Barnwell formation) .....	190	245

#### Potential Water-Bearing Zones:

None observed in samples available for this well.

#### WAYNE COUNTY

Location: 8.5 mi. southeast of Jesup, Land Lot 7, 333rd Land District	Well No.: GGS 52
Owner: Brunswick Peninsular Corporation	Elev.: 73
Driller: The California Co.	(derrick floor)
Drilled: December 1944	

	Thickness (feet)	Depth (feet)
No samples .....	74	74

#### In Miocene (Undifferentiated):

Sand: fine to coarse-grained, angular, phosphatic; limestone, gray to cream, dense (calcitized), sandy, phosphatic, fossiliferous (molds and impressions of macroshells) .....	389	463
Sand: as above; clay, dark-green, sandy, fossiliferous (macroshells and fish teeth) .....	31	494
Sand: fine to coarse-grained, phosphatic; limestone, white, sandy .....	29	523
Sand: fine to coarse-grained, phosphatic; dolomitic limestone, light-brown, saccharoidal, phosphatic .....	157	680

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Sand and limestone: as above; limestone, light-gray, nodular, dense (calcitized), fossiliferous (some Foraminifera).....	45	725
<i>Quinqueloculina</i> sp., <i>Pyrgo</i> sp. at 680-710.		
<i>Dictyoconus</i> <sup>1</sup> sp. at 710-725.		
Limestone: cream, fossiliferous; some dolomitic limestone, as above .....	14	739
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream to light-gray, massive, dense (much calcitized), fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	94	833
<i>Asterocyclina nassauensis</i> , <i>Gypsina globula</i> at 756-771.		
<i>Pseudophragmina flintensis</i> , <i>Operculinoides floridensis</i> at 771-787.		
Limestone: as above; some dolomitic limestone.....	62	895
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Sand: fine to coarse-grained, and some dolomitic limestone, as above .....	88	983
No samples .....	99	1,082
Dolomitic limestone: brown, saccharoidal.....	54	1,136
Dolomitic limestone: as above; some limestone, light-gray, saccharoidal, granular (in texture).....	16	1,152
No samples .....	31	1,183
Limestone: light-gray, somewhat granular (in texture), finely disseminated glauconite, fossiliferous.....	167	1,350
<i>Asterocyclina monticellensis</i> at 1183-1214.		
<i>Lepidocyclina (Polylepidina) antillea</i> at 1245-1255.		
Sand: fine to coarse-grained, phosphatic; interbedded limestone, cream, somewhat massive.....	280	1,630
Sand: as above; dolomitic limestone, light-brown, saccharoidal, cherty .....	77	1,707
Limestone: cream, granular (in texture), dense (much calcitized), cherty .....	243	1,950
<i>Asterocyclina monticellensis</i> common at 1857-1873.		

<sup>1</sup>Reworked(?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Dolomitic limestone: light-brown, saccharoidal; some limestone, as above.....	40	1,990
Dolomitic limestone: as above, but coarsely glauconitic.....	5	1,995
Dolomitic limestone: as above; some indurated sand, fine-grained, abundantly glauconitic; interbedded clay, pale-green, fissile, silty, gypsiferous, finely glauconitic, abundantly and coarsely glauconitic and fossiliferous at depth.....	125	2,120
Sand: fine to coarse-grained, phosphatic.....	85	2,205

#### Lower Eocene: Wilcox Group (Undifferentiated):

Sand: fine to coarse-grained, glauconitic; interbedded limestone, white, dense (much calcitized), sandy, coarsely glauconitic, fossiliferous (molds and fragments of macroshells)....	165	2,370
<i>Eponides dorfi</i> , <i>Valvulineria wilcoxensis</i> at 2205-2212.		
Marl: dark-gray, silty, micaceous, carbonaceous, fossiliferous (some Foraminifera) .....	175	2,545
<i>Eponides dorfi</i> , <i>Valvulineria scrobiculata</i> , <i>Cibicides howelli</i> at 2473-2545.		

#### Paleocene: Midway Group: Clayton Formation:

Sand: somewhat indurated at certain horizons, fine-grained, glauconitic; interbedded marl, dark-gray to black, fissile, carbonaceous, finely micaceous, fossiliferous (some Foraminifera) .....	90	2,635
<i>Eponides lotus</i> , <i>Polymorphina cushmani</i> , <i>Siphonina prima</i> , <i>Cibicides praecursorius</i> , <i>Cibicides howelli</i> at 2545-2550.		
Limestone: cream, dense (much calcitized), nodular (in texture), somewhat saccharoidal, fossiliferous (molds of macroshells, bryozoan remains, and occasional Ostracods and Foraminifera) .....	24	2,659
Sand: somewhat indurated at certain horizons, fine-grained, micaceous, glauconitic .....	121	2,780
Sand: fine-grained, glauconitic; interbedded marl, black, fissile, carbonaceous, finely micaceous, somewhat fossiliferous (Foraminifera) .....	120	2,900

#### Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):

Marl: bluish-gray to brown, sandy, micaceous, glauconitic, fossiliferous (macroshells, Ostracods, and Foraminifera).....	625	3,525
<i>Globotruncana</i> sp., <i>Guembelina</i> sp. at 2900-2903.		

	Thickness (feet)	Depth (feet)
Marl: as above, but much sandier.....	540	4,065
<i>Anomalina</i> sp., <i>Globorotalia micheliniana</i> at 3525-3540.		
<i>Planulina</i> cf. <i>P. taylorensis</i> at 3540-3555.		
<i>Kyphopyxa christneri</i> at 3612-3626.		
<i>Vaginulina texana</i> at 3693-3708.		
Sand: fine to medium-grained, somewhat indurated at certain horizons, glauconitic, phosphatic, abundantly micaceous.....	65	4,130

**Tuscaloosa Formation:**

Sand: fine to medium-grained, indurated, finely glauconitic, very micaceous, fossiliferous (macroshells); interbedded shale, greenish to dark-gray, fissile, finely micaceous.....	445	4,575
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**Basement Complex (Undifferentiated):**

Quartzite? .....	50	4,625
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**Summary:**

No samples .....	74	74
In Miocene (undifferentiated).....	606	680
Oligocene (undifferentiated) .....	59	739
Upper Eocene (Ocala limestone).....	156	895
Middle Eocene (Claiborne group, undifferentiated).....	1,310	2,205
Lower Eocene (Wilcox group, undifferentiated).....	340	2,545
Paleocene (Clayton formation).....	355	2,900
Upper Cretaceous (post-Tuscaloosa, undifferentiated).....	1,230	4,130
Upper Cretaceous (Tuscaloosa formation).....	445	4,575
Basement complex (undifferentiated).....	50	4,625

**Potential Water-Bearing Zones:**

Limestone .....	180	860
Sand: fine to coarse-grained.....	61	956
Sand: fine to coarse-grained.....	280	1,630
Sand: fine to coarse-grained.....	70	2,370
Sand: fine-grained <sup>1</sup> .....	65	2,635

<sup>1</sup>Probably contains salt water.

## WAYNE COUNTY

Location: 0.5 mi. southwest of Mt. Pleasant  
 Owner: No. 1 Southern Pines Products Company  
 Driller: Hughes Specialty Well Drilling Company  
 Drilled: September 1906

Well No.: GGS 96  
 Elev.: 59

Thickness  
(feet)

Depth  
(feet)

**Pliocene to Recent (Undifferentiated):**

Sand: fine to medium-grained, subangular, finely disseminated phosphatic grains; interbedded clay, dark-gray, silty, lignitic, micaceous, fossiliferous at certain levels (macroshells and echinoid remains).....	40	40
Sand: coarse-grained, subangular, sparsely phosphatic.....	4	44

**In Miocene: Duplin Marl:**

Marl: gray to pale-green, somewhat indurated and sandy, fossiliferous (megafossils, echinoid remains, and Ostracods)....	27	71
Shell bed prominent at 69-71.		

**Hawthorn Formation:**

Clay: dark-green, rather tough, somewhat indurated, sandy.....	55	126
No samples .....	21	147
Sand: fine-grained .....	13	160
Sand: fine to coarse-grained, phosphatic.....	60	220
Clay: dark-green, sandy, phosphatic.....	65	285
Sand: fine to coarse-grained, phosphatic; interbedded clay, dark-green, sandy, phosphatic.....	115	400
Sand: fine to coarse-grained, phosphatic; interbedded limestone, white, dense, sandy.....	80	480
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic .....	30	510

**Oligocene (Undifferentiated):**

Limestone: light-gray, dense (much calcitized), crystalline, nodular, fossiliferous (Foraminifera).....	50	560
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*Rotalia byramensis* var. at 510-523.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	44	44
In Miocene (Duplin marl).....	27	71
Miocene (Hawthorn formation).....	439	510
Oligocene (undifferentiated).....	50	560

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	60	220
Limestone.....	50	560

**WAYNE COUNTY**

Location: 1500 ft. south of Altamaha River at Doctortown    Well No.: GGS 262  
 Owner: No. 1 Rayonier Corporation    Elev.: 100  
 Driller: Layne-Atlantic Company  
 Drilled: January 1952

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: medium-grained to coarse-grained at depth, subangular to subrounded, arkosic; interbedded clay (or kaolin?), white, sandy, micaceous.....	40	40
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**Miocene (Undifferentiated):**

Clay: pale-brownish-gray to dark-brown at depth, somewhat mottled (with red streaks), sandy, micaceous.....	15	55
Clay: dark to pale green, sandy, phosphatic; beds of sand.....	305	360
Sand: fine to coarse-grained, phosphatic; interbedded limestone, white, dense (much calcitized), sandy, phosphatic.....	140	500
Dolomitic limestone: brown, saccharoidal, sandy, phosphatic.....	25	525
No samples.....	5	530

**In Oligocene (Undifferentiated):**

Limestone: gray, dense (much calcitized), nodular, fossiliferous (some Foraminifera).....	15	545
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*Operculinoides* sp. at 530-545.



	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, dense (much calcitized), fossiliferous (bryozoan remains, macroshells, and Foraminifera).....	305	850
<i>Gypsina globula</i> , <i>Asterocyclina nassauensis</i> at 545-555.		
<i>Camerina striatoreticulata</i> at 710-715.		
<i>Amphistegina pinarensis</i> var. at 720-725.		

**Middle Eocene: Claiborne Group (Undifferentiated):**

Dolomitic limestone: brown, saccharoidal.....	50	900
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**Summary:**

Pliocene to Recent (undifferentiated).....	40	40
Miocene (undifferentiated) .....	485	525
No samples .....	5	530
In Oligocene (undifferentiated).....	15	545
Upper Eocene (Ocala limestone).....	305	850
Middle Eocene (Claiborne group, undifferentiated).....	50	900

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	52	187
Sand: fine to coarse-grained.....	41	310
Sand: fine to coarse-grained.....	140	500
Limestone .....	270	815

**WAYNE COUNTY**

Location: East side of U.S. Highway 25, south side of Altamaha River, at Rayonier Plant  
 Well No.: GGS 297  
 Elev.: 100  
 Owner: No. 1 Rayonier Inc.  
 Driller: Layne-Atlantic Company  
 Drilled: April 1952

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, finely disseminated phosphatic grains; interbedded kaolin, white, somewhat sandy.....	38	38
No samples .....	120	158
<b>In Miocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, rounded, phosphatic.....	60	218
Clay: dark-green, sandy.....	42	260

	Thickness (feet)	Depth (feet)
No samples .....	50	310
Sand: fine to coarse-grained, phosphatic.....	60	370
Sand: as above; interbedded dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic.....	80	450
No samples .....	25	475
Limestone: white, dense (much calcitized), sandy, phosphatic, fossiliferous (fragments and molds of megafossils).....	16	491
No samples .....	104	595

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: cream to white, somewhat saccharoidal (much calcitized), fossiliferous (bryozoan remains and Foraminifera)..... 230 825

*Pseudophragmina flintensis*, *Gypsina globula* at 595-605.

*Asterocyclina nassauensis* at 605-615.

*Amphistegina pinarensis* var. at 765-775.

**Middle Eocene: Claiborne Group (Undifferentiated):**

Dolomitic limestone: light-brown, saccharoidal..... 80 905

Limestone: light-gray, rather dense (calcitized), fossiliferous  
(Foraminifera)..... 40 945

*Miliolidae* abundant at 905-945.

No samples .....
 40 | 985 |

Dolomitic limestone: light-brown to black, saccharoidal..... 7 992

**Summary:**

Pliocene to Recent (undifferentiated).....	38	38
No samples .....	120	158
In Miocene (undifferentiated).....	333	491
No samples .....	104	595
In upper Eocene (Ocala limestone).....	230	825
Middle Eocene (Claiborne group, undifferentiated).....	167	992

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	60	218
Sand: fine to coarse-grained.....	60	370
Limestone .....	230	825

## WAYNE COUNTY

Location: Odum  
 Owner: City of Odum  
 Driller: M. M. Gray  
 Drilled: 1955

Well No.: GGS 454  
 Elev.: 155<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, light-gray to pale-green, sandy.....	120	120
Mottled sandy clay at 0-10.		
Coarse-grained arkosic sand at 60-70.		
Tubular worm borings (?) prominent at 80-100.		
Fine to coarse-grained, angular, arkosic sand at 100-120.		
<b>Miocene (Undifferentiated):</b>		
Clay: pale-green, sandy, phosphatic; interbedded sand, fine to coarse-grained, phosphatic; clay, pale-green, sandy, phosphatic; dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic; and limestone, white, sandy, coarsely phosphatic, fossiliferous (macroshells).....	470	590
Dolomitic limestone, light-brown, sandy, phosphatic at 300-350, 400-430, 490-510, and 580-590.		
<b>Oligocene (Undifferentiated):</b>		
Limestone: gray, extremely dense (highly calcitized), nodular, fossiliferous (some Foraminifera).....	50	640
<i>Rotalia byramensis</i> var., <i>Lepidocyclina</i> sp. at 610-620.		
<i>Miliolidae</i> common, <i>Dictyoconus</i> <sup>2</sup> sp. at 620-630.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: as above, very fossiliferous (macroshells, bryozoan remains, and Foraminifera).....	70	710
<i>Operculinoides</i> sp. at 640-650.		
<i>Operculinoides</i> cf. <i>O. floridensis</i> at 660-670.		
<i>Operculinoides</i> sp. abundant, <i>Asterocyclina nassauensis</i> , <i>Pseudophragmina flintensis</i> , <i>Gypsina globula</i> at 670-680.		

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

<sup>2</sup>Reworked (?) fossil of middle Eocene age.

**Summary:**

	Thickness (feet)	Depth (feet)
Pliocene to Recent (undifferentiated).....	120	120
Miocene (undifferentiated) .....	470	590
Oligocene (undifferentiated) .....	50	640
Upper Eocene (Ocala limestone).....	70	710

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	10	70
Sand: fine to coarse-grained.....	20	120
Sand: fine to coarse-grained.....	50	490
Limestone .....	110	710

**WAYNE COUNTY**

Location: 0.75 mi. south of Screven city limits, west side  
of Highway 38

Well No.: GGS 466

Owner: No. 1 Lindsey Grace

Elev.: 118

Driller: Layne-Atlantic Company

Drilled: 1955

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: fine to medium-grained, angular, arkosic.....	5	5
Clay: yellowish-green, sandy.....	10	15
Sand: fine to coarse-grained, angular, arkosic; some clay, pale green to purple (mottled), sandy.....	30	45
Sand: very coarse-grained, arkosic.....	30	75

**Miocene (Undifferentiated):**

Clay: yellowish-green to dark-green, phosphatic at depth.....	175	250
Black phosphatic pebbles common at 145-155.		
Sand: coarse-grained, phosphatic.....	40	290
Sand: as above; interbedded clay, dark-green, sandy, phos- phatic; and dolomitic limestone, light-brown, sandy, phos- phatic .....	103	393
Clay: dark-green, sandy, phosphatic.....	123	516
Dolomitic limestone: dark-brown, saccharoidal, sandy, phos- phatic .....	84	600
No samples .....	20	620

	Thickness (feet)	Depth (feet)
<b>In Oligocene (Undifferentiated):</b>		
Limestone: cream, rather massive (calcitized), fossiliferous (Foraminifera) .....	80	700
<i>Dictyoconus</i> <sup>1</sup> sp., <i>Quinqueloculina</i> sp. at 620-640.		

**Summary:**

Pliocene to Recent (undifferentiated).....	75	75
Miocene (undifferentiated) .....	525	600
No samples .....	20	620
In Oligocene (undifferentiated).....	80	700

**Potential Water-Bearing Zones:**

Sand: coarse-grained .....	40	290
Limestone .....	80	700

**WAYNE COUNTY**

Location: In Jesup  
 Owner: City of Jesup  
 Driller: Bailey Drilling Company  
 Drilled: May 1958

Well No.: GGS 555  
 Elev.: 100

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, angular, arkosic, phosphatic (finely disseminated); interbedded clay, dark-gray, silty, lignitic, micaceous .....	74	74
<b>Miocene (Undifferentiated):</b>		
Sand: coarse-grained, subangular; some clay, yellowish to dark-green, blocky, sandy, phosphatic at depth.....	21	95
Clay: yellowish to dark-green, blocky, sandy, phosphatic.....	190	285
Light-brown phosphatic pebbles at 95-105.		
Jet-black phosphatic pebbles at 141-152.		
Sand: coarse-grained, subangular, phosphatic; some clay, as above .....	68	353
Dolomitic limestone at 305-323.		
Clay: as above.....	61	414

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Sand: coarse-grained, subangular, phosphatic; interbedded dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic .....	61	475
Dolomitic limestone: as above; interbedded thin tongues of sand and clay, as above.....	61	536
Limestone: light-gray, dense, sandy, phosphatic, fossiliferous (echinoid remains and macroshells).....	40	576

**Oligocene (Undifferentiated):**

Limestone: cream, rather massive, nodular, much calcitized and recrystallized, porous, fossiliferous (casts and molds chiefly of Gastropods, some echinoid and bryozoan remains, and Foraminifera) .....	50	626
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*Quinqueloculina* sp. at 576-586.

*Quinqueloculina* sp., *Rotalia* sp., *Gypsina globula*<sup>1</sup>, *Dictyoconus*<sup>1</sup> sp. at 586-596.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: as above, but lighter-colored at depth, fossiliferous (bryozoan remains and Foraminifera).....	69	695
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*Operculinoides* sp., *Operculinoides floridensis*, *Asterocyclina nassauensis*, *Pseudophragmina flintensis*, *Gypsina globula* at 626-636.

**Summary:**

Pliocene to Recent (undifferentiated).....	74	74
Miocene (undifferentiated) .....	502	576
Oligocene (undifferentiated) .....	50	626
Upper Eocene (Ocala limestone).....	69	695

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	68	353
Sand: fine to coarse-grained.....	61	414
Limestone .....	159	695

<sup>1</sup>Reworked(?) fossil of middle Eocene age.

## WEBSTER COUNTY

Location: Approximately 6.2 mi. northwest of road junction in Preston via Highway 280 to fork in road, 0.8 mi. due north of Highway 280 via county road, east side of county road in road fork  
 Well No.: GGS 323  
 Elev.: 586  
 Owner: No. 1 E. C. Downer  
 Driller: Southeastern Drilling Company  
 Drilled: October 1952

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Providence Sand:</b>		
Clay: bluish-gray to brick-red (somewhat mottled), very sandy, limonitic .....	30	30
Sand: fine to coarse-grained, very angular, arkosic; interbedded clay, gray to red (mottled), micaceous, sandy .....	145	175
<b>Ripley Formation:</b>		
Clay: dark bluish-gray to black, somewhat fissile, lignitic, micaceous, sandy .....	15	190

**Summary:**

Upper Cretaceous (Providence sand) .....	175	175
Upper Cretaceous (Ripley formation) .....	15	180

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	4	114
Sand: fine to coarse-grained .....	6	138
Sand: fine to coarse-grained .....	6	152
Sand: fine to coarse-grained .....	10	166

**Remarks:**

Owing to ground-water leakage (springs) all sands listed above as potential sources of ground water may be dry.

## WEBSTER COUNTY

Location: Northeastern part of county, 7.5 mi. northeast Well No.: GGS 488  
of road junction in center of Preston via Highway 153, south side of Highway  
Owner: No. 1 Winkler Farm  
Driller: Southeastern Drilling Company  
Drilled: March 1956

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Sand: argillaceous, brick-red, fine to coarse-grained, angular, limonitic .....	40	40
Clay: olive-green to red (mottled), blocky, sandy.....	20	60
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, angular, massive; interbedded clay, gray to red (mottled), micaceous, sandy.....	108	168
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: black, fissile, carbonaceous, micaceous, coarsely glau- conitic at depth.....	18	186
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: light-gray, crystalline, coarsely but sparsely glau- conitic, fossiliferous (casts and molds of megafossils, bryo- zoan remains, and Foraminifera).....	9	195
<i>Discorbis midwayensis, Eponides lotus, Cibicides praecur- sorius, Cibicides newmanae</i> at 190-195.		
<b>Upper Cretaceous: Providence Sand:</b>		
Clay: yellowish-green to red (mottled), micaceous, sandy; in- terbedded sand, fine to coarse-grained, angular, arkosic.....	35	230
<b>Summary:</b>		
Middle Eocene (Lisbon formation).....	60	60
Middle Eocene (Tallahatta formation).....	108	168
Lower Eocene (Wilcox group, undifferentiated).....	18	186
Paleocene (Clayton formation).....	9	195
Upper Cretaceous (Providence sand).....	35	230
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	14	108
Sand: fine to coarse-grained.....	6	146



**Remarks:**

All potential water-bearing sands above depth of 200 feet are probably dry due to local rugged topography and ground-water leakage (springs). Above well should have been drilled deeper in order to penetrate the underlying Providence sand which is known to contain good water-bearing sands.

**WEBSTER COUNTY**

Location: Well No.: GGS 559  
 Owner: No. 1 Webster County Elementary and High School Elev.: 535  
 Driller: Southeastern Drilling Company

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: brick-red, very sandy, limonitic.....	10	10
Clay: bluish-gray to yellow to tan to dark-red (mottled), sandy, limonitic .....	20	30
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Sand: fine to coarse-grained, coarser-grained with depth, very angular, sparsely phosphatic.....	70	100
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: dark-gray to black, lignitic, pyritiferous, micaceous, glauconitic; some sand, fine to coarse-grained, angular, somewhat arkosic .....	30	130
Limonite prominent at 100-110.		
Glauconite abundant at 110-120.		
Sand: fine to coarse-grained, angular; some marl, as above.....	10	140
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: light-gray, blocky, carbonaceous, micaceous, silty.....	10	150
Clay: black, fissile, carbonaceous, micaceous (finely disseminated); limestone, cream, dense, crystalline, coarsely glauconitic, pyritiferous, fossiliferous (fragments, casts and molds of megafossils, echinoid and bryozoan remains, Ostracods, and Foraminifera); sand, as above.....	10	160
Limestone: as above.....	20	180
<i>Eponides lotus</i> , <i>Anomalina midwayensis</i> , <i>Discorbis midwayensis</i> , <i>Cibicides howelli</i> at 160-170.		

	Thickness (feet)	Depth (feet)
Limestone: light-gray, dense, crystalline, glauconitic, fossiliferous (fragments, casts and molds of megafossils, echinoid and bryozoan remains, Ostracods, and Foraminifera).....	10	190
Limestone: cream, dense, crystalline, glauconitic, sandy, sandier with depth, fossiliferous (casts and molds of megafossils) .....	15	205
Sand: fine to coarse-grained, angular.....	10	215

**Upper Cretaceous: Providence Sand:**

Sand: fine to coarse-grained, angular, arkosic; some clay, gray to red (mottled), sandy, micaceous.....	15	230
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Mica flakes prominent at 220-230.

**Summary:**

Residuum .....	30	30
Middle Eocene (Tallahatta formation).....	70	100
Lower Eocene (Wilcox group, undifferentiated).....	40	140
Paleocene (Clayton formation).....	75	215
Upper Cretaceous (Providence sand).....	15	230

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	10	140
Limestone .....	45	205
Sand: fine to coarse-grained.....	10	215

**WHEELER COUNTY**

Location: 3.4 mi. northwest of Southern R.R. Depot at Well No.: GGS 92  
Scotland, west side of north-south county road at Elev.: 243  
dwelling

Owner: No. 1 H. G. Samples  
Driller: J. L. Clegg  
Drilled: 1943

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic .....	40	40
Clay: light-gray, sandy .....	65	105
Sand: fine to coarse-grained, angular .....	73	178
Clay: yellowish-green, sandy .....	76	254

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: white, dense, nodular, much calcitized, fossiliferous (some Foraminifera) .....	34	288

*Rotalia mexicana* var. at 254-274.

**Summary:**

Miocene (undifferentiated) .....	254	254
Oligocene (undifferentiated) .....	34	288

**Potential Water-Bearing Zones:**

Limestone .....	34	288
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**WHEELER COUNTY**

Location: 3.5 mi. east of Little Ocmulgee River, north side of Highway 15, Land Lot 486, 7th Land District      Well No.: GGS 336  
 Owner: No. 1 Charles W. Jordan Heirs      Elev.: 190  
 Driller: Natural Resources Corporation  
 Drilled: 1954

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: brick-red, very sandy, limonitic .....	20	20
Clay: tan to purple to red (mottled), sandy, limonitic .....	10	30
Sand: fine-grained, angular, phosphatic (finely disseminated grains); some clay, yellowish-green, blocky, sandy .....	30	60
Clay: light-brown, sandy.....	20	80
Sand: fine-grained to coarser-grained at depth, angular, arkosic .....	50	130
Clay: light-brown to yellowish-green, blocky, sandy .....	60	190
Clay: as above but much sandier, phosphatic at depth .....	40	230
Brown phosphatic pebbles at 210-220.		
Clay: as above; interbedded limestone, white, sandy .....	90	320
White sandy limestone prominent at 240-250.		
Clay: dark-green, blocky, phosphatic, sandy .....	20	340
Sand: fine-grained, angular; some clay, as above .....	10	350
Sand: as above; some limestone, light-brown, very sandy, phosphatic, fossiliferous (macroshells).....	10	360

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray to somewhat reddish-brown at depth, massive, dense, somewhat nodular, much calcitized, cherty at certain levels, sandy, sparsely phosphatic near top, fossiliferous (casts and molds of megafossils, some echinoid and bryozoan remains, and Foraminifera) .....	90	450

*Rotalia mexicana* var. at 360-370.

*Gypsina globula*<sup>1</sup>, *Lepidocyclina*<sup>1</sup> sp. at 400-410.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: light-gray, much calcitized, crystalline, somewhat granular (in texture), much softer than limestone above, fossiliferous (abundant bryozoan remains and some Foraminifera) .....	230	680
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*Robulus arcuato-striatus* var., *Nonion planatus*, *Eponides jacksonensis*, *Rotalia mexicana* var., *Asterigerina subacuta*, *Lepidocyclina* sp. at 450-460.

*Operculinoides floridensis* and bryozoan remains common to abundant at 490-500.

*Asterocyclina nassauensis* at 570-580.

Limestone: cream, much calcitized, granular and somewhat loosely consolidated, dolomitized at certain horizons, fossiliferous (bryozoan remains and Foraminifera); some massive limestone, gray to white, nodular, fossiliferous (macroshells and bryozoan remains) .....	180	860
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*Camerina striatoreticulata* at 680-690.

*Amphistegina pinarensis* var., *Pseudophragmina flintensis* at 690-700.

Dolomitic limestone prominent at 710-720.

*Operculina mariannensis* at 730-740.

Dolomitic limestone prominent at 820-830.

**Middle Eocene: Claiborne Group (Undifferentiated):**

Sand: fine to coarse-grained, angular; some limestone, as above .....	40	900
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Sand: fine to medium-grained, angular, somewhat argillaceous, indurated at certain levels, phosphatic, micaceous; interbedded marl, light-gray, silty, glauconitic, micaceous,

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
fossiliferous (fish teeth, Ostracods, and Foraminifera); limestone, light-gray, dense, massive, crystalline, fossiliferous (macroshells and some bryozoan remains) .....	240	1,140

Glauconite common at 1020-1030.

Macroshells abundant at 1100-1110.

Sand: fine to medium-grained, angular, coarsely glauconitic .....	60	1,200
Marl: dark-gray, silty, carbonaceous, glauconitic, micaceous, fossiliferous (Ostracods and Foraminifera) .....	130	1,330

#### In Lower Eocene and Paleocene (Undifferentiated):

Marl: dark-gray to black, fissile, carbonaceous, micaceous, abundantly glauconitic .....	20	1,350
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Glauconite abundant at 1330-1340.

Limestone: gray, dense, crystalline, glauconitic, fossiliferous (fragments, casts and molds of megafossils); some marl and sand, as above .....	100	1,450
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Sand: fine to medium-grained, angular, phosphatic, fossiliferous (macroshells at certain horizons) .....	100	1,550
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Sand: fine to medium-grained, angular, phosphatic; interbedded marl, dark-gray to black, fissile, carbonaceous, micaceous; limestone, light-gray, crystalline (in texture), sandy .....	230	1,780
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#### Upper Cretaceous: Providence and Ripley (Undifferentiated):

Marl: dark-gray, sandy, very micaceous, fossiliferous (macroshells, Ostracods, and Foraminifera) .....	400	2,180
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*Gaudryina rudita*, *Anomalina pseudopapillosa* at 1790-1800.

#### Summary:

Miocene (undifferentiated) .....	360	360
Oligocene (undifferentiated) .....	90	450
Upper Eocene (Ocala limestone) .....	410	860
Middle Eocene (Claiborne group, undifferentiated) .....	470	1,330
In lower Eocene and Paleocene (undifferentiated) .....	450	1,780
Upper Cretaceous (Providence and Ripley, undifferentiated) .....	400	2,180 <sup>2</sup>

#### Potential Water-Bearing Zones:

Limestone .....	500	860
Sand: fine to coarse-grained .....	40	900
Sand: fine to medium-grained .....	60	1,200
Limestone .....	50	1,440

<sup>2</sup>Well not examined below 2180.

## WHEELER COUNTY

Location: 6.2 mi. northeast of No. 1 Jordan Heirs (oil Well No.: GGS 337 test) at tenant house, southwest quarter of Land Lot 87, 6th Land District  
 Owner: No. 1 Emmett Joyce  
 Driller: Dixie Well Drilling Company  
 Drilled: 1953

	Thickness (feet)	Depth (feet)
No samples .....	100	100
<b>In Miocene (Undifferentiated):</b>		
Clay: light-gray, sandy; sand, fine to medium-grained, angular.....	50	150
Sand: fine to medium-grained, angular, gray phosphatic pebbles .....	20	170
Clay: yellowish-green, sandy; fragments of limestone, white, rather dense, sandy .....	110	280
Sand: fine to medium-grained, subangular, phosphatic, fossiliferous (a coquina at depth) .....	65	345
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, dense, crystalline, somewhat nodular, sandy, sparsely phosphatic, fossiliferous (some macroshells, bryozoan remains, Ostracods, and Foraminifera) .....	105	450
<i>Quinqueloculina</i> sp. at 340-350.		
<i>Rotalia mexicana</i> var. at 350-360.		
<i>Asterigerina subacuta</i> , <i>Operculinoides</i> sp. at 370-380.		
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: cream, considerably calcitized, granular, fossiliferous (some macroshells, echinoid and bryozoan remains and Foraminifera) .....	160	610
<i>Camerina striatoreticulata</i> , <i>Lepidocyclina</i> sp. at 450-460.		
<i>Camerina striatoreticulata</i> common at 460-470.		
<i>Lepidocyclina ocalana</i> at 580-590.		
Bryozoan remains common at 590-610.		
<b>Summary:</b>		
No samples .....	100	100
In Miocene (undifferentiated) .....	245	345
Oligocene (undifferentiated) .....	105	450
Upper Eocene (Ocala limestone) .....	160	610
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	240	610

## WILCOX COUNTY

Location: 1.5 mi. north of Pitts, west side of county road      Well No.: GGS 68  
 Owner: No. 1 A. C. Shell      Elev.: 405  
 Driller: W. B. Graham  
 Drilled: January 1947

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: bluish-gray to red (mottled), sandy, limonitic; interbedded sand, fine to coarse-grained, angular, arkosic .....	140	140

**Oligocene (Undifferentiated):**

Limestone: white, dense, crystalline, cherty, fossiliferous (some Foraminifera) .....	10	150
<i>Rotalia mexicana</i> var. at 140-150.		

**Summary:**

Miocene (undifferentiated) .....	140	140
Oligocene (undifferentiated) .....	10	150

**Potential Water-Bearing Zones:**

Limestone .....	10	150
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## WILCOX COUNTY

Location: Approximately 3 mi. southeast of Pitts, east side of county road at dwelling      Well No.: GGS 70  
 Owner: No. 1 H. A. Dorsey      Elev.: 395  
 Driller: W. B. Graham  
 Drilled: January 1947

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: light-gray to red (mottled), sandy, limonitic .....	60	60
Clay: yellowish-green, sandy; residual limestone, at depth .....	95	155

**Oligocene (Undifferentiated):**

Limestone: white, dense, crystalline, cherty .....	19	174
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	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Miocene (undifferentiated) .....	155	155
Oligocene (undifferentiated) .....	19	174

**Potential Water-Bearing Zones:**

Limestone .....	19	174
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**WILCOX COUNTY**

Location: 1.5 mi. east of Seville, 300 yd. east of tributary to Alapaha River, north side of Highway 280

Well No.: GGS 136

Owner: No. 5 U.S. Geological Survey test hole

Driller: Scott Brothers

Drilled: July 1946

	Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Clay: mottled, sandy, limonitic .....	10	10
Clay: yellowish-green, sandy .....	60	70
Clay: as above, with fragments of residual limestone .....	10	80

**Oligocene (Undifferentiated):**

Limestone: white, cherty, fossiliferous (some Foraminifera) ...	39	119
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*Rotalia mexicana* var. at 100-110.

*Asterigerina* sp. at 110-119.

**Summary:**

Miocene (undifferentiated) .....	80	80
Oligocene (undifferentiated) .....	39	119

**Potential Water-Bearing Zones:**

Limestone .....	39	119
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## WILCOX COUNTY

Location: Approximately 3.5 mi. south of Pitts  
 Owner: No. 2 A. C. Shell  
 Driller: T. D. Yers  
 Drilled: February 1947

Well No.: GGS 142  
 Elev.: 405

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic .....	20	20
Clay: gray to yellowish-green, sandy .....	70	90

**Oligocene (Undifferentiated):**

Limestone: white, dense, crystalline, cherty .....	50	140
<i>Quinqueloculina</i> sp. at 140-150.		
Limestone: white, soft, porous, fossiliferous (some Foramini- fera) .....	57	197

**Summary:**

Miocene (undifferentiated) .....	90	90
Oligocene (undifferentiated) .....	107	197

**Potential Water-Bearing Zones:**

Limestone .....	57	197
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## WILCOX COUNTY

Location: State Fish Hatchery, Bowens Mill  
 Owner: State (Georgia) Department of Wild Life  
 Driller: Tucker and Woffe  
 Drilled: July 1953

Well No.: GGS 349

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, very sandy, limonitic .....	45	45
Clay: light-gray to pale-green, sandy .....	10	55
<b>In Oligocene (Undifferentiated):</b>		
Limestone: white, crystalline, much calcitized, cherty, fos- siliferous (bryozocan remains and some Foraminifera) .....	52	107
<i>Quinqueloculina</i> sp., <i>Rotalia mexicana</i> var. at 60-75.		

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Miocene (undifferentiated) .....	55	55
In Oligocene (undifferentiated) .....	52	107

**Potential Water-Bearing Zones:**

Limestone .....	42	107
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**WILKINSON COUNTY**

Location: In Irwinton  
 Owner: No. 1 William Sites  
 Driller: Georgia-Florida Well Drilling Company  
 Drilled: July 1955

Well No.: GGS 441  
 Elev.: 465<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Clay: brown, sandy, limonitic, and fragments of residual limestone .....	40	40
Marl: yellowish-green, silty, fossiliferous (some Foraminifera) .....	50	90
<i>Valvulineria jacksonensis</i> at 60-70.		
Limestone: white, somewhat leached, sandy, fossiliferous (macroshells, echinoid and bryozoan remains) .....	20	110

**Upper Cretaceous: Tuscaloosa Formation:**

Kaolin: white, micaceous, somewhat sandy .....	40	150
Sand: fine to coarse-grained, angular; interbedded clay (or kaolin) .....	180	330

**Summary:**

Upper Eocene (Barnwell formation) .....	110	110
Upper Cretaceous (Tuscaloosa formation) .....	180	330

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	150	330
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<sup>1</sup>Average elevation based on Georgia State Highway Maps.

## WILKINSON COUNTY

Location: Southwestern part of county near Danville  
 Owner: No. 1 Danville Elementary School  
 Driller: Virginia Supply and Well Company

Well No.: GGS 529  
 Elev.: 450<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Barnwell Formation:</b>		
Clay: bluish-gray to tan to red (mottled), sandy, limonitic .....	40	40
Marl: dark-green, silty, sparsely glauconitic .....	10	50
Marl: light-gray, silty, blocky, glauconitic, fossiliferous (at certain levels macroshells, echinoid and bryozoan remains, and Foraminifera); interbedded limestone, light-gray, dense, crystalline .....	105	155
<i>Nonion advena</i> at 50-55.		
<i>Valvulineria jacksonensis</i> , <i>Nonion advena</i> at 80-85.		
Limestone: light-gray, dense, crystalline, sandier at depth, coarsely but sparsely glauconitic, fossiliferous (casts and molds of megafossils and abundant bryozoan remains) .....	5	160
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular, phosphatic at depth; some limestone, as above .....	45	205
Marl: light-gray, silty; some sand, fine to coarse-grained, angular .....	30	235
Limestone: light-gray, argillaceous, very sandy .....	5	240
Clay: dark-green to brown, somewhat indurated and fissile, abundantly glauconitic, carbonaceous, micaceous, pyritiferous, fossiliferous (rare Foraminifera) .....	20	260
Sand: coarse-grained, angular, phosphatic, somewhat arkosic .....	30	290
Sand: as above; some clay, brown, sandy, lignitic .....	30	320
<b>Summary:</b>		
Upper Eocene (Barnwell formation) .....	160	160
Middle Eocene (Claiborne group, undifferentiated) .....	160	320
<b>Potential Water-Bearing Zones:</b>		
Sand: coarse-grained .....	30	290

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

## WORTH COUNTY

Location: Approximately 3.25 mi. southeast of Oakfield, Well No.: GGS 232  
 0.1 mi. north of a grain mill at tenant house Elev.: 250  
 Owner: No. 1 Will Aultman  
 Driller: H. B. Truluck  
 Drilled: July 1951

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: dark-brown to black, sandy, lignitic, and residual limestone .....	40	40
No samples .....	10	50

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white, calcitized, fossiliferous (macroshells, abundant bryozoan remains, and some Foraminifera) .....	30	80
<i>Operculinoides</i> sp. at 50-60.		
<i>Argyrotheca</i> sp. at 70-80.		

**Summary:**

Residuum .....	40	40
No samples .....	10	50
In upper Eocene (Ocala limestone) .....	30	80

**Potential Water-Bearing Zones:**

Limestone .....	30	80
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## WORTH COUNTY

Location: Doerun Well No.: GGS 456  
 Owner: No. 1 Minton Elementary School Elev.: 410  
 Driller: Pierson Well Drilling Company  
 Drilled: 1955

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic .....	50	50
Clay: yellowish-green, sandy .....	10	60
Sand: fine to coarse-grained, angular .....	10	70

	Thickness (feet)	Depth (feet)
Clay: yellowish-green, sandy; interbedded limestone, white, dense, calcitized, sandy.....	210	280

Limestone prominent at 160-170.

**In Oligocene (Undifferentiated):**

Limestone: white, somewhat sandy, fossiliferous.....	20	300
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*Rotalia mexicana* var. at 280-290.

*Pyrgo* sp. at 290-300.

**Summary:**

Miocene (undifferentiated).....	280	280
In Oligocene (undifferentiated).....	20	300

**Potential Water-Bearing Zones:**

Limestone.....	20	300
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**Remarks:**

Samples of poor quality.

**WORTH COUNTY**

Location: 0.25 mi. west of town of Red Rock  
Owner: No. 1 Red Rock Elementary School  
Driller: W. H. Pierson Drilling Company  
Drilled: 1955

Well No.: GGS 471  
Elev.: 330

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: mottled, sandy, limonitic.....	10	10
Clay: olive-green to red (somewhat mottled), carbonaceous, sandy, and fragments of chert.....	10	20
Clay: as above, with residual limestone.....	40	60
No samples.....	30	90

**In Upper Eocene: Jackson Group: Ocala Limestone:**

	Thickness (feet)	Depth (feet)
Limestone: white, dense, crystalline, highly calcitized, fossiliferous at certain levels (macroshells, bryozoan remains, and some Foraminifera) .....	155	245
<i>Robulus alato-limbatus</i> , <i>Siphonina jacksonensis</i> , <i>Eponides jacksonensis</i> , <i>Gypsina globula</i> at 90-100.		
<i>Lepidocyclina</i> sp. at 110-120.		
<i>Gypsina globula</i> common at 125-130.		
Limestone: as above, but coarsely glauconitic.....	15	260
<i>Operculina mariannensis</i> at 255-260.		
Limestone: white, dense, sandy, fossiliferous (macroshells and Foraminifera) .....	40	300
<i>Amphistegina pinarensis</i> var. at 285-290.		
Sand: fine to medium-grained, angular.....	15	315

**Summary:**

Residuum .....	60	60
No samples .....	30	90
In upper Eocene (Ocala limestone).....	225	315

**Potential Water-Bearing Zones:**

Limestone .....	210	300
Sand: fine to medium-grained .....	15	315

**BEAUFORT COUNTY, S. C.**

Location: Approximately 0.25 mi. west of Well 66, Hilton Island  
 Owner: No. 2 USGS Test Hole (Observation Well)  
 Driller: M. M. Gray Drilling Company  
 Drilled: June 1954

Well No.: GGS 385  
 Elev.: 15

	Thickness (feet)	Depth (feet)
Sand: fine-grained, finely disseminated phosphatic grains; interbedded clay, dark-gray, silty, somewhat indurated, carbonaceous, micaceous, fossiliferous (macroshells at certain horizons) .....	20	20

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic.....	35	55
Sand: coarse-grained, angular; some clay, as above.....	10	65
Limestone: white to light-gray, very sandy, phosphatic, fossiliferous at depth (fragments, casts and molds of megafossils, echinoid and bryozoan remains, Ostracods, and some Foraminifera) .....	55	120
<i>Textularia?</i> sp. at 100-105.		
Clay: dark-green, very sandy, phosphatic.....	10	130
Sand: medium-grained, phosphatic.....	5	135
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray, dense, nodular, much calcitized, fossiliferous (bryozoan remains and some Foraminifera).....	5	140
Limestone: cream, softer, somewhat nodular, fossiliferous (casts and molds of megafossils, bryozoan and echinoid remains, and some Foraminifera).....	40	180
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, much calcitized and crystalline, fossiliferous (abundant bryozoan remains and some Foraminifera).....	115	295
<i>Pseudophragmina flintensis</i> at 205-210.		
Limestone: cream, much calcitized and granular, somewhat loosely consolidated, sparsely glauconitic, fossiliferous at certain levels (bryozoan remains and Foraminifera).....	250	545
<i>Camerina striatoreticulata</i> at 365-375.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: as above but more massive and crystalline at certain levels, somewhat sandy, fossiliferous (Foraminifera at certain levels) .....	185	730
<i>Lepidocyclina</i> sp. at 555-565.		
Marl: light-gray to cream, fossiliferous (echinoid and bryozoan remains, Ostracods, and abundant Foraminifera).....	10	740
<i>Spiroplectamma mississippiensis</i> var., <i>Textularia adalta</i> , <i>Textularia dibollensis</i> var. <i>humblei</i> , <i>Robulus alato-limbatus</i> , <i>Dentalina jacksonensis</i> , <i>Nonion planatus</i> , <i>Nonionella hantkeni</i> var. <i>spissa</i> , <i>Siphonina jacksonensis</i> , <i>Marginulina coeensis</i> , <i>Gyroldina soldanii</i> var., <i>Discorbis assulata</i> , <i>Lagena</i>		

	Thickness (feet)	Depth (feet)
<i>acuticosta</i> , <i>Planularia</i> sp., <i>Spirillina vicksburgensis</i> , <i>Patellina advena</i> , <i>Guttulina problema</i> , <i>Globulina gibba</i> , <i>Polymorphina advena</i> var., <i>Sigmomorphina semitecta</i> , <i>Bolivina jacksonensis</i> var., <i>Angulogerina vicksburgensis</i> , <i>Buliminella robertsi</i> , <i>Cibicides lobatulus</i> , <i>Cibicides danvillensis</i> , <i>Cibicides pseudoungerianus</i> var., <i>Cibicides mississippiensis</i> , <i>Cibicides americanus</i> var. <i>antiquus</i> , <i>Cibicides westi</i> at 730-740.		

**Summary:**

Pliocene to Recent (undifferentiated).....	20	20
Miocene (undifferentiated) .....	115	135
Oligocene (undifferentiated) .....	45	180
Upper Eocene (Ocala limestone).....	365	545
Middle Eocene (Lisbon formation).....	195	740

**Potential Water-Bearing Zones:**

Sand: medium-grained .....	5	135
Limestone .....	595	730

**BEAUFORT COUNTY, S. C.**

Location: Daufuskie Island  
 Owner: No. 3 USGS Test Hole  
 Driller: M. M. Gray Well Drilling Company  
 Drilled: 1958

Well No.: GGS 566  
 Elev.: 20

	Thickness (feet)	Depth (feet)
No samples .....	42	42

**In Miocene (Undifferentiated):**

Sand: fine to medium-grained, subangular, sparsely phosphatic; interbedded clay, dark-gray to dark-green, somewhat indurated, blocky, silty, micaceous, carbonaceous, fossiliferous (macroshells at certain levels).....	41	83
Sand: medium-grained, subrounded, phosphatic.....	3	86
Clay: yellowish-green, blocky, tough, sandy.....	10	96

**Oligocene (Undifferentiated):**

Limestone: light-gray, massive, saccharoidal, very porous <sup>1</sup> , sandy, sparsely phosphatic, fossiliferous, carrying casts and molds of megafossils.....	10	106
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<sup>1</sup>Cavities represent former megafossils subsequently dissolved by ground water.



	Thickness (feet)	Depth (feet)
No samples .....	11	117
Limestone: cream, nodular, saccharoidal, somewhat soft and powdery at certain horizons, very sandy, sparsely phosphatic, fossiliferous (casts and molds of megafossils, echinoid and bryozoan remains, and some Foraminifera).....	18	135
<i>Rotalia mexicana</i> var., <i>Pyrgo</i> sp., <i>Quinqueloculina</i> sp., <i>Dictyoconus</i> <sup>2</sup> sp. at 117-122.		
Limestone: cream to light-gray, massive, somewhat calcitized and nodular, fossiliferous (as above).....	55	190
<i>Operculinoides</i> sp. at 135-140.		

#### Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: white, somewhat crystalline and calcitized, fossiliferous (some macroshells, abundant bryozoan remains, some Ostracods, Foraminifera) .....	70	260
<i>Gypsina globula</i> , <i>Eponides cocoaensis</i> , <i>Eponides jacksonensis</i> , <i>Discorbis assulata</i> , <i>Nonion planatus</i> , <i>Cancris</i> sp., <i>Planularia</i> sp., <i>Siphonina jacksonensis</i> , <i>Globorotalia cocoaensis</i> , <i>Guttulina irregularis</i> , <i>Cibicides americanus</i> , <i>Cibicides mississippiensis</i> at 190-196.		
<i>Operculinoides floridensis</i> , <i>Asterocyclina nassauensis</i> at 196-200.		
<i>Lingulina</i> sp. at 200-205.		
Limestone: light-gray, rather massive, much calcitized and crystalline, somewhat nodular, fossiliferous (as above).....	45	305
Limestone: cream, much calcitized and granular, somewhat loosely consolidated, fossiliferous (Foraminifera at certain levels) .....	255	560
<i>Orthophragmina flintensis</i> at 345-350.		
<i>Camerina striatoreticulata</i> common at 426-431.		

#### Middle Eocene: Claiborne Group: Lisbon Formation:

Limestone: as above, but more massive and calcitized, somewhat sandy, fossiliferous at certain levels (megafossils, bryozoan remains, and Foraminifera).....	140	700
<i>Lepidocyclina</i> sp., <i>Operculinoides</i> sp. at 645-650.		
Limestone: white, massive, much calcitized, somewhat granular (in texture), coarsely glauconitic, sparsely fossiliferous (macroshells at certain levels).....	5	705
Marl: yellowish-green; interbedded limestone, as above.....	41	746

<sup>2</sup>Reworked(?) fossil of Eocene age.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
No samples .....	42	42
In Miocene (undifferentiated) .....	54	96
Oligocene (undifferentiated) .....	94	190
Upper Eocene (Ocala limestone) .....	370	560
Middle Eocene (Lisbon formation) .....	186	746

**Potential Water-Bearing Zones:**

Limestone .....	395	530
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**Remarks:**

The interval 530-700 may represent late middle Eocene, i.e., Gosport equivalent. At 645-650 a species of *Lepidocyclina* was identified as possibly *Lepid. ariana*, a middle Eocene *Lepidocyclina*. However, more specimens are needed before a definite specific identification of this species may be made.

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Well Logs of the Coastal Plain of Georgia



Figure 1.—Well location map, Coastal Plain of Georgia