# GEORGIA STATE DIVISION OF CONSERVATION

DEPARTMENT OF MINES, MINING AND GEOLOGY GARLAND PEYTON, Director

# THE GEOLOGICAL SURVEY Bulletin Number 74

# LOGS OF SELECTED WELLS IN THE COASTAL PLAINS OF GEORGIA

by

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ATLANTA 1964

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298

300

#### Description

fragments are common; also occurring are a few fragments of *Pecten* sp., several specimens of *Lituonella floridana* and *Pseudochrysalidina floridana*, and specimens of two species of large miliolids.

Limestone, cream, calcitic, porous, highly fossiliferous. The fauna seems to be similar to that in the sample at 286 ft. but there are few well-preserved specimens.

Material and fauna like the sample at 296 ft. and, in addition, many fragments of dark-brown granular dolomite.

Dolomite, dark-brown, granular, composes most of the sample. A few fragments of white, calcitic, highly microfossiliferous limestone are possibly caving from higher levels.

305 T.D. Dolomite, dark-brown, granular, porous, composes most of the sample. In addition, the sample contains fragments of calcite, fragments of white fossiliferous limestone as in the sample at 300 ft., and fragments of white, hard, sandy limestone showing impressions of a few fragments of macrofossils (Pecten sp.)

#### THOMAS COUNTY

Owner: City of Meigs, Ga.

GGS. No. 59 Elevation: 340 (approx.) Total Depth: 1530 ft.

Completed:

## Summary of Stratigraphy

Tertiary	(feet) Depth	(feet) Thickness
Miocene undifferentiated	25 (1st samp	459 le)
Oligocene upper, Suwannee Limestone middle(?) or lower(?), Vicksburg(?) Group	184	102 80
Oligocene(?) or Eocene(?)	666	149
upper, Ocala Limestone, upper member no samples from 835 to 1320 ft.	815	<b>?</b>
middle(?), undifferentiated	to 1320 total depti	210(?)
Lithologic and paleontologic description of cuttings and cores. Samples are cuttings unless otherwise stated.	 14	* 4.1

#### Depth (feet)

### Description

0- 25

No samples.

No samples.

388- 417

# Tertiary

	101 tidiy
1 3 5	In Miocene Series undifferentiated
25- 55	Sand, clear quartz, angular, coarse-grained, somewhat ironstained, unfossiliferous. The sand seems to be contained in a matrix of red clay.
55- 135	Clay, light-tan, compact, laminated, diatomaceous; a very small amount of fine-grained quartz sand washes from the clay.
135- 157	Sand, clear quartz, angular, poorly-sorted, somewhat ironstained, and a few fragments of clay similar to sample at 55-135 ft., but containing fine-grained sand.
157- 185	Clay, tan, highly sandy (fine-grained sand); greenish-gray, unctuous clay; and about 50 percent fine-grained, angular, poorly-sorted, clear quartz sand.
185- 205	Clay, in part, gray and, in part, tan, sandy (fine-grained sand); about 50 percent poorly-sorted, angular, clear quartz sand; a few nodules of limonite, and a few fragments of white sandy limestone.
205- 246	Limestone, cream, hard, sandy (fine-grained sand); a small amount of greenish-gray clay, and angular, fine-grained sand, no fossils.
246- 270	No samples.
270- 289	Limestone, cream, highly sandy (fine-grained sand), containing a few impressions of fragments of microfossils, and a few indistinct sections of molds of specimens of Foraminifera. About 10 percent of the washed sample is composed of poorly-sorted clear quartz sand.
289- 293	Like sample at 270-289 ft.
293- 302	Like sample at 270-289 ft., but about 50 percent of sample is unconsolidated, angular, clear quartz sand; no fossils.
302- 312	Like sample at 293-302 ft., and also a few fragments of greenishgray sandy clay.
312- 320	No samples.
320- 334	Like sample at 302-312 ft., but about 75 percent of sample is fine to coarse-grained, angular, clear quartz sand.
334- 346	No samples.
346- 365	Limestone, cream, hard, sandy, containing fragments of molds, and impressions of fragments of fossils. One chip of limestone showed a few fairly well preserved sections of <i>Archaias</i> sp. About 25 percent of the sample is composed of fine-grained sand and a
" , , , ,	little tan clay.

Sand, quartz, angular, very poorly sorted; a few fragments of

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Depth (feet)	Description
	cream, argillaceous sandstone; a few fragments of sandy limestone like sample at 346-365 ft., no fossils.
417- 459	Limestone, cream, irregularly sandy, a few fragments of which show indistinct impressions of fossils. About 25 percent of the sample is composed of coarse-grained quartz sand.
462- 484	Limestone, hard, sandy, irregularly porous, containing a few impressions of fossils, and a few hard greenish-gray areas. About 10 percent of the sample is composed of unconsolidated quartz sand.
***	Oligocene Series
	Upper Oligocene. Suwannee Limestone.
484- 511	Limestone, cream, hard, porous, somewhat glauconitic, highly microfossiliferous. Macrofossils are, chiefly, fragments of <i>Pecten</i> sp. and echinoid spines. Among the many poorly-preserved foraminiferal specimens, the most common species are <i>Rotalia mecatepecensis</i> , <i>Asterigerina subacuta</i> , <i>Gypsina</i> sp., and a fragment of <i>Lepidocyclina</i> sp.
511- 586	Limestone, white, hard, containing many specimens of Lepidocy- clina undosa, Camerina dia, Elphidium cf. E. Chapmani, and Asterigerina subacuta.
¥.	Middle(?) or lower(?) Oligocene.
5	Vicksburg(?) Group.
586- 606	Limestone, white, gray-spotted, hard, nodular, highly fossiliferous. Macrofossils are, chiefly, bryozoan fragments, echinoid spines and crab claws. Among the microfossils, the common species of Foraminifera are Lepidocyclina undosa, Camerina dia, Asterigerina subacuta, Lepidocyclina mantelli, Rotalia mecatepecensis, Elphidium cf. E. chapmani, Asterigerina sp., Cibicides choctawensis, and Eponides alabamensis.
606- 632	Limestone, cream, nodular, in part finely crystalline, and about 10 percent coarse-grained quartz sand. The fauna contains echinoid spines, specimens of Rotalia sp. and Asterigerina sp., a few

specimens of Camerina sp. and a few small fragments of Lepi-

Core. Limestone, white, chalky, gray-spotted, microfossiliferous, partially calcitized. The fauna contains many echinoid spines, and specimens of Rotalia mecatepecensis and Asterigerina sub-

Core. Limestone, deep-cream, gray-spotted, hard, porous, partially calcitized, highly fossiliferous. The limestone seems to have been altered by percolating water. The fauna, which is similar to that in the samples starting at 586-606 ft., is characterized by large echinoid spines, specimens of Rotalia mecatepencensis, and poorly preserved specimens of Lepidocyclina sp., Camerina

docyclina sp.

acuta.

605- 620

620- 641

Depth (feet)

#### Description

sp., and *Massilina* sp. Many of the core fragments are composed of brown, coarsely crystalline dolomitic limestone that shows few traces of fossils.

641-666

Core. Limestone, light-brown, hard, crystalline, containing soft, chalky, very poorly preserved molds of fossils fragments. The fauna, which contains traces of *Lepidocyclina* sp. and *Rotalia* sp., seems to be related to the fauna in the sample at 620-641 ft.

#### Oligocene(?) Series or Eocene(?) Series

Middle (?) or lower (?) Oligocene or upper (?) Eocene.

666- 688 Core. Limestone, white, hard, calcitic, containing many poorly preserved traces of microfossils but no determinable forms.

688- 727 No samples.

727- 753

Limestone, brown, crystalline; a little water-worn (?) chalky, limestone; a few fragments of thinly laminated gray-green shale; and about 20 percent coarse-grained sand. The sparse foraminiferal fauna contains specimens of Camerina sp., Asterigerina sp., Lepidocyclina sp., and other species, like the samples starting at 586-606 ft. Some of the cuttings in this sample, and possibly

Like sample at 727-753 ft., with the addition of nodules of limonite.

The sample may be composed entirely of cayings.

770- 796 Core. Dolomite, light-brown, granular, containing abundant traces of chalky microfossils, all of which are too poorly preserved for identification. A part of the core is composed of dense, very finely granular dolomite that shows no trace of fossils.

796-815 Core. Dolomite, brown, hard, dense, very finely granular; no fossils.

### . 1 Eocene Series

#### Upper Eocene. Ocala Limestone. Upper Member.

815- 835 Core. Limestone, cream, chalky, containing many specimens of Foraminifera. The common species are Cibicides ocalanus, Robulus alato-limbatus, Uvigerina dumblei, Dentalina jacksonensis, Reussella sculptilis, Siphonina jacksonensis, Cribrogloborotalia marielina, Operculina mariannensis, Anomalina bilateralis, Robulus sp., Eponides jacksonensis.

835-1320 No samples.

#### Middle (?) Eocene. Undifferentiated.

1320-1530 T.D. Sand, clear quartz, moderately fine grained, angular, highly glauconitic, containing fairly numerous specimens of small Foraminifera and Ostracoda. Among the specimens of Foraminifera are Robulus alato-limbatus, R. alabamensis, R. cf. R. pseudo-mamilligerus, Textularia dibollensis, Globorotalia crassata densa, Valvulineria persimillis, Globigerina rotunda var., Coleites sp., and others.