

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

THE GEOLOGICAL SURVEY
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WELL LOGS OF THE
COASTAL PLAIN OF GEORGIA

by

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Prepared cooperatively by the U. S. Geological Survey

ATLANTA
1961

	Thickness (feet)	Depth (feet)
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
Owner: No. 2 Tattnall State Prison
Driller: Virginia Machine and Well Company
Drilled: 1949

Well No.: GGS 180
Elev.: 187

	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
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> ¹ sp., <i>Asterocyclina</i> ¹ sp., <i>Asterigerina</i> cf. <i>A. subacuta</i> , <i>Spiroloculina</i> sp., <i>Discorbis byramensis</i> , <i>Gypsina globula</i> ¹ , <i>Reusella oligocena</i> , <i>Operculinoides</i> ¹ sp. at 480-490.		
<i>Lepidocyclina</i> sp., <i>Siphonina advena</i> , <i>Asterocyclina</i> cf. <i>A. nassauensis</i> ¹ 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.

¹Reworked (?) fossil of middle Eocene age.