

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

THE GEOLOGICAL SURVEY
Bulletin Number 70

WELL LOGS OF THE
COASTAL PLAIN OF GEORGIA

by

Stephen M. Herrick, Geologist
United States Geological Survey



Prepared cooperatively by the U. S. Geological Survey

ATLANTA
1961

Thickness
(feet) Depth
(feet)

Potential Water-Bearing Zones:

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)

Upper Cretaceous: Eutaw Formation:

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

Tuscaloosa Formation:

Kaolin: gray to somewhat mottled at depth, micaceous, sandy....	32	74
Sand: fine to coarse-grained, angular, arkosic, micaceous; interbedded 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)
Upper Cretaceous: Cusseta Sand:		
Sand: fine to coarse-grained, angular; interbedded clay, mottled (light-gray to red), micaceous, sandy	60	60
Blufftown Formation:		
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
Eutaw Formation:		
Shale: dark greenish-gray to black, fissile, chloritic, carbonaceous, fossiliferous at certain levels (macroshells and Ostracods)	54	592