

DOUGHERTY COUNTY, U. S. M. C. #3

Eocene

Ocala limestone

Residuum, dark yellowish brown 10YR 4/2. Largely dark, lignitic and deep red clay. Mixed with silt and fine to coarse sand-----	20	40
Limestone, very pale orange 10YR 8/2. Aphanitic and contains many bryozoa and other fossils-----	20	60
Limestone, white N9. Dense, aphanitic. Contains fewer fossils than preceding-----	5	65
No samples-----	40	105
Limestone, very pale orange, 10YR 8/2. Partially recrystallized, fossiliferous. Contains considerable fine to coarse sand-----	20	125
Limestone, yellowish gray 5Y 8/1. Aphanitic, fossiliferous. Contains minor amount of fine to medium sand-----	20	145
No fossils-----	20	165
Limestone, very pale orange 10YR 8/2. Highly recrystallized, unfossiliferous. Contains minor amount of sand-----	20	185
No samples-----	40	225
Limestone, yellowish gray 5Y 8/1. Highly recrystallized, porous. Appears to be composed largely of small shell fragments-----	5	230
Total Ocala limestone-----	230	

Claiborne group

Sand, pale yellowish brown 10YR 6/2. Mostly fine to very fine with a few medium and coarse grains. Angular to sub-angular, poorly sorted. Highly calcareous and containing considerable glauconite, phosphate, and mica-----	20	250
Sand, yellowish gray 5Y 8/1. Very fine to fine, sub-angular, fairly well sorted. Highly calcareous and containing some glauconite and phosphate. A few fossil fragments-----	20	270
Sand, pale yellowish brown 10YR 6/2. Similar to preceding. Contains some lignitic material-----	20	290
Limestone, yellowish gray 5Y 8/1. Considerably recrystallized, sandy, glauconitic, fossiliferous. Forams noted-----	20	310
Sand, light gray N7. Very fine to fine, sub-rounded, fairly well sorted. Highly phosphatic and glauconitic-----	20	330
Sand, light olive gray 5Y 6/1. Fine to coarse, sub-angular, poorly sorted. Very highly calcareous, fossiliferous. Considerable phosphate and glauconite-----	19	349
Similar to preceding. Sand is mostly fine and better sorted-----	30	371

Limestone, light olive gray 5Y 6/1. Aphanitic, sandy. Many large shell fragments-----	20	391
Similar to preceding. Considerable glauconite-----	16	407
Similar to preceding-----	20	427
Similar to preceding-----	6	433
Sand, pale yellowish brown 10YR 6/2. Fine to coarse, sub-angular, poorly sorted. Glauconitic, calcareous, iron stained. Fossils fragments-----	20	453
Similar to preceding. Light olive gray 5Y 6/1. No iron stains-----	20	473
Same as preceding-----	4	477
Sand, light olive gray 5Y 6/1. Very fine to fine, poorly sorted. Extremely silty. Glauconitic, calcareous, fossiliferous. Contains some lignitic material-----	16	493
Sand, light olive gray 5Y 6/1. Very fine to fine, poorly sorted. Glauconitic, phosphatic, calcareous, fossiliferous-----	22	515
Sand, light olive gray 5Y 6/1. Fine, well rounded, well sorted. Clean, phosphatic-----	25	540
Sand, light olive gray 5Y 6/1. Fine to coarse, poorly sorted. Highly calcareous. Some glauconite and phosphate-----	20	560
Similar to preceding-----	20	580
Limestone, light olive gray 5Y 6/1. Very silty, somewhat sandy, phosphatic and glauconitic-----	20	600
Similar to preceding-----	20	620
Silt, medium light gray N6. Calcareous, slightly glauconitic and sandy-----	20	640
Similar to preceding. Medium gray N5. Not much sand-----	20	660
Similar to preceding-----	20	680
Similar to preceding-----	20	700
Similar to preceding-----	20	720
	<u>20</u>	
Total Claiborne group-----	490	
Wilcox group		
Silt, medium light gray N6. Very sandy, highly glauconitic and containing shell fragments-----	20	740
Similar to preceding-----	20	760

	Similar to preceding. Less sandy and containing some lignite-----	30	
	Sandy limestone or limy sand, medium light gray N6. Silty, glauconitic. Sand is mostly medium grained and fairly well sorted. some very fine sand-----	21	790
Limestone			801
	Total Wilcox group-----	81	
Paleocene			
Clayton limestone			
	Limestone, light gray N7. Aphanitic, fossiliferous. Only a slight amount of sand a few dark minerals-----	20	821
	Similar to preceding. Somewhat more sandy-----	20	841
	Similar to preceding-----	19	860
	Similar to preceding-----	20	880
	Similar to preceding-----	10	890
	Total Clayton limestone-----	89	
Cretaceous			
Navarro			
	Silt, medium light gray N6. Sandy, calcareous, fossiliferous-----	21	921
	Similar to preceding-----	21	941
	Similar to preceding-----	20	961
	Limestone, medium light gray N6. Very sandy and silty. Many shell fragments-----	20	981
	Similar to preceding-----	19	1000
	Total Navarro-----	110	

DOUGHERTY COUNTY, U. S. M. C. #3
Elev. 204.25

ROCKS

OCALA LIMESTONE

	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Residuum, dark yellowish brown 10YR 4/2. Largely dark, lignitic and deep red clay. Mixed with silt and fine to coarse sand-----	20	
Limestone, very pale orange 10YR 8/2. Aphanitic and containing many bryozoa and other fossils-----	20	40
Limestone, white N9. Dense, aphanitic. Contains fewer fossils than preceding-----	5	65
No samples-----	40	105
Limestone, very pale orange, 10YR 8/2. Partially recrystallized, fossiliferous. Contains considerable fine to coarse sand-----	20	125
Limestone, yellowish gray 5Y 8/1. Aphanitic, fossiliferous. Contains minor amount of fine to medium sand-----	20	145
Similar to preceding but no fossils noted-----	20	165
Limestone, very pale orange 10YR 8/2. Highly recrystallized, unfossiliferous. Contains minor amount of sand-----	20	185
No samples-----	40	225
Limestone, yellowish gray 5Y 8/1. Highly recrystallized, porous. Composed largely of fused shell fragments-----	5	230
Total Ocala limestone-----	<u>240</u>	

OCALA TOP

CLAIRBORNE TOP

CLAIBORNE GROUP

Sand, pale yellowish brown 10YR 6/2. Mostly fine to very fine with a few medium and coarse grains. Angular to sub-angular, poorly sorted. Highly calcareous and containing considerable glauconite, phosphate and mica-----	20	250
Sand, yellowish gray 5Y 8/1. Very fine to fine, sub-angular, fairly well sorted. Highly calcareous and containing some glauconite and phosphate. A few shell fragments-----	20	270
Sand, pale yellowish brown 10YR 6/2. Similar to preceding. Contains some lignitic material-----	20	290
Limestone, yellowish gray 5Y 8/1. Considerably recrystallized, sandy, glauconitic, fossiliferous. Forams noted-----	20	310
Sand, light gray N7. Very fine to fine, sub-rounded, fairly well sorted. Highly phosphatic and glauconitic-----	20	330
Sand, light olive gray 5Y 6/1. Fine to coarse, sub-angular, poorly sorted. Very highly calcareous, fossiliferous. Considerable phosphate and glauconite-----	19	349
Similar to preceding. Sand is mostly fine and better sorted-----	30	379

SPELL TOP

	Thickness (feet)	Depth (feet)
Limestone, light olive gray 5Y 6/1. Aphanitic, sandy. Many large shell fragments-----	20	391
Similar to preceding. Considerable glauconite-----	16	407
Do-----	20	427
Do-----	6	433
Sand, pale yellowish brown 10YR 6/2. Fine to coarse, sub-angular, poorly sorted. Glauconitic, calcareous, iron-stained. Fossil fragments-----	20	453
Similar to preceding. Light olive gray 5Y 6/1. No iron stains-----	20	473
Do-----	4	477
Sand, light olive gray 5Y 6/1. Very fine to fine, poorly sorted. Extremely silty, glauconitic, calcareous, fossiliferous. Contains some lignitic material-----	16	493
Sand, light olive gray 5Y 6/1. Very fine to fine, poorly sorted. Glauconitic, phosphatic, calcareous, fossiliferous-----	22	515
Sand, light olive gray 5Y 6/1. Fine, well rounded, well sorted. Clean and phosphatic-----	25	540
Sand, light olive gray 5Y 6/1. Fine to coarse, poorly sorted. Highly calcareous. Some glauconite and phosphate-----	20	560
Do-----	20	580
Limestone, light olive gray 5Y 6/1. Very silty, somewhat sandy, phosphatic and glauconitic-----	20	600
Do-----	20	620
Silt, medium light gray N6. Calcareous, slightly glauconitic and sandy-----	20	640
Similar to preceding. Medium gray N5. Not much sand-----	20	660
Do-----	20	680
Do-----	20	700
Do-----	20	720
Total Claiborne group-----		

WILCOX GROUP

Silt, medium light gray N6. Very sandy, highly glauconitic and containing shell fragments-----	20	740
Do-----	20	760
Similar to preceding. Less sandy and containing some lignite-----	30	790
Sandy limestone or limy sand, medium light gray N6. Silty, glauconitic. Sand is mostly medium and fairly well sorted. Some very fine sand-----	21	801
Total Wilcox group-----		

PALMOCHIE

CLAYTON LIMESTONE

Limestone, light gray N7. Aphanitic, fossiliferous. Only a slight amount of sand and a few dark mins.-----	20	821
Similar to preceding. Somewhat more sandy-----	20	841
Do-----	10	850
Do-----	20	870

WILCOX TOP
MIDWAY TOP
L.S. TOP

Thickness (feet) Depth (feet)

Do-----Total Clayton Limestone-----10 890
 Total Clayton Limestone-----80

CRETACEOUS

L.S. BOT. 900

Silt, medium light gray N6. Sandy, calcareous, fos-
 siliferous-----31 CRET. TOP → 922
 Do-----90 921
 Do-----20 941
 Limestone, medium light gray N6. Very sandy and
 silty. Many shell fragments-----20 961
 Do-----19 981
 Total Cretaceous-----1000

CRET.

SHELL TOP 954
 " BOT 970

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

No. GGS 261

OTHER NOS. _____

WELL LOG

State Georgia County Dougherty Subarea _____

Owner U. S. Marine Corps, Well No. 3

Location U. S. Marine Corps Supply Depot; about 1/4 mile North of temporary Headquarters,
Southeast of Albany, Georgia

Drilled by Layne-Atlantic Co. Address _____

Date Jan. 31, 1954 Casing diam. 20-inch Land-surf. alt. 204 feet (top casing)

Source of data Well Cuttings

(Enter type of well, perforations, yield, and drawdown at end of log)

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	No samples	20	20
	Clay, sandy, mottled, carbonaceous, with frequent fragment of residual (leached) limestone	20	40
	Limestone, white, porous, fossiliferous, with abundant Bryozoa & foraminifera	25	65
	No samples	40	105
	Limestone, sandy, calcitized, with macro-shells, occasional Bryozoa & large foraminifera	40	145
	No samples	20	165
	Limestone, dense, cream, highly calcitized, with molds of macro-shells	20	185
	No samples	40	225
	Limestone, cream, calcitized, rather unfossiliferous	5	230
	Sand, mostly fine- to coarse-grained, with fragments of limestone as in above sample	20	250
	Sand, fine- to coarse-grained, with frequent fragments of light gray, sandy, finely-glaucanitic limestone and dense, cream, much calcitized limestone (latter, "cave")	40	290
	Limestone, cream, predominately dense, calcitized, with frequent fragments of light gray, rather dense, sandy, glauconitic, fossiliferous limestone	20	310
	Sand, fine- to coarse-grained, with occasional fragments of white, crystalline, glauconitic limestone & scattered grains of dark green glauconite	20	330

RECORD BY S. M. Herrick DATE _____ SHEET 1 OF _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

No. GCS 261

OTHER NOS. _____

WELL LOG

State Georgia County Dougherty Subarea _____

Owner U. S. Marine Corps, Well No. 3

Location U. S. Marine Corps Supply Depot; about $\frac{1}{4}$ mile North of temporary Headquarters, Southeast of Albany, Georgia

Drilled by Layne-Atlantic Co. Address _____

Date Jan. 31, 1954 Casing diam. 20-inch Land-surf. alt. 204 feet (top casing)

Source of data Well Cuttings

(Enter type of well, perforations, yield, and drawdown at end of log)

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Sand, fine- to coarse-grained, with frequent fragments of light gray, sandy, finely glauconitic limestone and dense, cream, much calcitized limestone (latter, "cave")	41	371
	Limestone, rather dense, cream to light gray, sandy, shell-bearing, or coquina, becoming phosphatic and more glauconitic with increased depth	56	427
	Sand, predominately fine- to coarse-grained, with fragments of sandy, glauconitic coquina, latter decreasing in amount with increased depth; with scattered grains of black, polished, phosphatic pebbles and grains of glauconite	50	477
	Sand, fine- to medium-grained, and considerable gray, micaceous clay	16	493
	Sand, fine- to coarse-grained, phosphatic	47	540
	Sand, fine- to coarse-grained, phosphatic, with frequent fragments of white to light gray, crystalline, sandy, shell-bearing, coarsely-glauconitic limestone, and occasional fragments of gray, micaceous clay	20	560
	Sand, fine- to coarse-grained, phosphatic, with frequent fragments of white to light gray, crystalline, sandy, shell-bearing, coarsely-glauconitic limestone, and gray, micaceous clay, common	20	580
	Sand, fine- to coarse-grained, phosphatic, with frequent fragments of white to light gray, crystalline, sandy, shell-bearing, coarsely-glauconitic limestone, with occasional fragments of dense, dark gray, highly-glauconitic clay, or siltstone	20	600
	Sand, fine- to coarse-grained, with frequent fragments of white to dark gray, crystalline, highly-glauconitic limestone and some gray, micaceous clay	20	620

RECORD BY S. M. Herrick DATE _____ SHEET 2 OF 2

