

LITHOLOGIC LOG  
Dougherty County, Ga.

Checked  
D. B. C.

OWNER: City of Albany No. 7  
LOCATION: Corner of Front and Flint Streets

CGS No.: 64  
USGS No.:  
Field No.:  
Land-surface alt: 188  
Well depth: 1200 ft.  
Water level: ft.  
Casing: in. to ft.

DRILLER: Layne-Atlantic  
DRILLED: 1939

Sample interval: 2 to 10 feet

Samples described by: Vaux Owen, Jr.  
Stratigraphic correlation by: Vaux Owen, Jr.

	Thickness (feet)	Depth (feet)
EOCENE TO RECENT (undifferentiated)		
No samples.....	27	27
Argillaceous, calcareous sand: very pale orange 10YR 8/2 to dark yellowish brown 10YR 4/2; fine to coarse grained, sub-angular, poorly sorted, clear quartz; aphanitic limestone fragments abundant; silt and clay abundant; weak to firm calcareous cement.....	3	30
UPPER EOCENE SERIES		
JACKSON GROUP		
OCALA LIMESTONE		
Arenaceous limestone: very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2; oolitic; sand abundant, very fine to medium grained, sub-angu- lar, well sorted, clear quartz; silt and clay common; weak to firm calcareous cement.....	3	33
Argillaceous, calcareous sand: dark yellowish brown 10YR 4/2; fine to coarse grained, sub-angular, poorly sorted, clear quartz; oolitic limestone fragments abundant; clay and silt abundant; weak to firm calcareous cement.....	3	36

UPPER EOCENE SERIES-continued

JACKSON GROUP-continued

Ocala Limestone-continued

Calcareous, arenaceous mudstone: very pale orange 10YR 8/2 and dark yellowish brown 10YR 4/2; mostly clay and silt; sand common, fine to medium grained, sub-angular, well sorted, clear quartz; granules (2-4mm) and gravel (4-8mm) of same description rare; limestone oolites abundant; weak to firm calcareous cement.....	3	39
Calcareous, argillaceous sand: dark yellowish brown 10YR 4/2; fine to coarse grained, sub-angular, poorly sorted, clear quartz; oolitic and aphanitic limestone fragments abundant; silt and clay abundant.....	3	42
Limestone: very pale orange 10YR 8/2; aphanitic and oolitic; recrystallization common; sand common; fine to very coarse grained, sub-angular, poorly sorted, clear milky, and yellow quartz; granules (2-4mm) of same description common; shell frag- ments common; firm calcareous cement.....	6	48
Limestone: very pale orange 10YR 8/2; aphanitic and oolitic; recrystallization common; sand common, fine to very coarse grained, sub-angular, poorly sorted, clear, milky, and yellow quartz; granules (2-4mm) and pebbles (4-8mm) of same description common; silt and clay common; shell fragments common; firm calcareous cement.....	3	51

UPPER EOCENE SERIES-continued

JACKSON GROUP-continued

OCALA LIMESTONE-continued

<p>Sandstone: very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2; fine to medium grained, sub-angular, fair-sorted, clear quartz; marl and oolitic limestone abundant; firm calcareous cement.....</p>	3	54
<p>Limestone: very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2, oolitic and aphanitic; shell fragments common; weak to firm cement; mixed with abundant sand, fine to very coarse grained, sub-angular, poorly sorted, clear and milky quartz; granules (2-4mm) of same description common; silt and clay common.....</p>	3	57
<p>Limestone: very pale orange 10YR 8/2; saccharoidal; firm cement; mixed with abundant sand, fine to very coarse grained, sub-angular, poorly sorted, clear and milky quartz; granules (2-4mm) of same description common.....</p>	3	60
<p>Limestone: very pale orange 10YR 8/2 to yellowish gray 5YR 7/2; aphanitic; sand common, fine to coarse grained, sub-angular, poorly sorted; clear, milky, and yellow quartz; marl common; shell fragments common; firm calcareous cement.....</p>	3	63
<p>Limestone: very pale orange 10YR 8/2 to yellowish gray 5Y 7/2; oolitic and aphanitic; sand common, fine to coarse grained, sub-angular, poorly sorted, clear, milky, and yellow quartz; shell fragments common; marl common; firm calcareous cement.....</p>	3	66

UPPER EOCENE SERIES-continued

JACKSON GROUP-continued

OCALE LIMESTONE-continued

Limestone: very pale orange 10YR 8/2 to yellowish gray 5Y 7/2; oolitic and aphanitic; sand common, fine to very coarse grained, sub-angular to sub-rounded, poorly sorted, clear, milky, and yellow quartz; granules (2-4 mm) and pebbles (4-8 mm) common; Foraminifera common; firm calcareous cement.....	2	68
Arenaceous limestone: very pale orange 10YR 8/2 to yellowish gray 5Y 7/2; oolitic and aphanitic; sand abundant, fine to medium grained, sub-angular, well sorted, clear, milky and yellow quartz; granules (2-4mm) of same description common; Foraminifera common; firm cement.....	2	70
Arenaceous limestone: very pale orange 10YR 8/2 to yellowish gray 5Y 7/2; oolitic and aphanitic; sand abundant, fine to coarse grained, sub-angular, poorly sorted; clear, milky, and yellow quartz; bryozoa common; silt and clay rare; weak to firm calcareous cement.....	2	72
Limestone: very pale orange 10YR 8/2; aphanitic and oolitic; recrystallization common; sand common, fine to very coarse grained, sub-angular, poorly sorted, clear, milky, and yellow quartz; granules (2-4mm) and pebbles (4-8mm) of same description common; forams, shell fragments, and bryozoa common; firm calcareous cement.....	2	74

<p>Limestone; very pale orange 10YR 8/2; fragmental with some oolitic; considerably recrystallized; quartz fairly common; fine sand to coarse gravel, sub-angular, poorly sorted, clear to milky and yellow; forams and poorly preserved bryozoa and shell fragments fairly common; hard calcareous cement.....</p>	2	76
<p>Limestone; very pale orange 10YR 8/2; fragmental with some oolitic; somewhat recrystallized; quartz fairly abundant, fine sand to fine gravel, sub-angular, poorly sorted, clear to milky and yellow; poorly preserved shell fragments and bryozoa common; hard calcareous cement.....</p>	2	78
<p>Limestone; very pale orange 10YR 8/2; oolitic to fragmental; quartz fairly abundant, fine sand to fine gravel, sub-angular, poorly preserved shell fragments and bryozoa common; firm to hard calcareous cement.....</p>	2	80
<p>Limestone; very pale orange 10YR 8/2; fragmental; quartz fairly common, fine sand to fine gravel, sub-angular, poorly sorted, clear to milky and yellow; poorly preserved fragments and bryozoa common; hard calcareous cement.....</p>	2	82

Limestone; very pale orange 10YR 8/2; fragmental quartz fairly common; fine sand to fine gravel; poorly sorted; clear to milky and yellow; poorly preserved shell fragments and bryozoa common; hard calcareous cement.....	2	84
Arenaceous limestone; yellowish gray 5Y 7/2 to pale yellowish brown 10YR 6/2; oolitic with some earthy; sand abundant; fine to medium; sub-angular; well sorted; clear quartz; firm calcareous cement.....	2	86
Limestone; very pale orange 10YR 8/2; fragmental with some oolitic; oolitic portion contains abundant sand; fine to medium; sub-angular; well sorted; clear quartz; poorly preserved shell fragments and bryozoa common; firm to hard calcareous cement.....	2	88
Arenaceous limestone; <del>(firm)</del> very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2; oolitic with some fragmental; sand abundant; fine to medium; sub-angular well sorted; clear quartz; poorly preserved shell fragments and bryozoa common; firm to hard calcareous cement.....	3	91
Arenaceous limestone; very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2; oolitic; sand abundant fine to medium; sub-angular; well sorted; clear quartz; argillaceous material common; weak to firm argillaceous and calcareous cement.....	3	94
Fragmental; largely recrystallized; quartz rare; hard calcareous cement.....	3	106

<p>Arenaceous limestone; very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2; oolitic with some fragmental; sand abundant, fine to medium, sub-angular, well sorted, clear quartz; argillaceous material common; forams fairly common; weak to firm argillaceous and calcareous cement.....</p>	3	127
<p>Limestone; very pale orange 10YR 8/2; fragmental; quartz fairly rare; argillaceous material common; hard calcareous cement.....</p>	1	128
<p>Arenaceous limestone; very pale orange 10YR 8/2 to pale yellowish brown - 10YR 6/2 oolitic; sand abundant, fine to coarse, sub-rounded, fair-sorted, clear to milky quartz; forams fairly common; argillaceous material common; weak to firm argillaceous and calcareous cement.....</p>	3	131
<p>Arenaceous limestone; pale yellowish brown 10YR 6/2 oolitic; sand abundant, fine to coarse, sub-rounded fair-sorted, clear to milky quartz; argillaceous material common; weak to firm argillaceous and calcareous cement.....</p>	3	134
<p>Arenaceous, argillaceous limestone; pale yellowish brown 10YR 6/2 and light brown 5YR 6/4; oolitic; sand abundant, fine to coarse, sub-rounded, firm to weak argillaceous and calcareous cement.....</p>	3	137

	Thickness (feet)	Depth (feet)
Limestone; yellowish gray 5Y 7/2; earthy to frag- mental; quartz fairly rare; forams fairly common; firm to hard calcareous cement.....	3	140
Argillaceous limestone; yellowish gray 5Y 7/2; frag- mental; quartz fairly rare; argillaceous material common; firm to a hard argillaceous and calcareous cement.....	3	143
Limestone; yellowish gray 5Y 7/2; oolitic with some fragmental; quartz fairly rare; firm calcareous cement.....	3	146
Arenaceous, argillaceous limestone; yellowish gray 5Y 7/2 to light brown 5YR 6/4; oolitic; sand abundant, fine to medium, sub-angular, well sorted, clear quartz; argillaceous material abundant; firm argillaceous and calcareous cement.	3	149
Limestone; yellowish gray 5Y 7/2 to light brown 5YR 6/4; oolitic with some fragmental; quartz fairly rare; argillaceous material common; hard calcareous cement.....	3	152
Argillaceous limestone; yellowish gray 5Y 7/2 to pale yellowish brown 10YR 6/2; oolitic to fragmental; quartz fairly rare; argillaceous material abun- ant; firm to hard argillaceous and calcareous cement.....	3	155
Do.....	3	158



	Thickness (feet)	Depth (feet)
Limestone; yellowish gray 5Y 7/2; oolitic to fragmental; quartz fairly rare; argillaceous material common; hard calcareous cement.....	3	161
Limestone; yellowish gray 5Y 7/2 to pale yellowish brown 10YR 6/2; oolitic to fragmental; quartz fairly rare; argillaceous material common; firm to hard argillaceous and calcareous cement.....	3	164
Argillaceous limestone; yellowish gray 5Y 7/2 to light olive gray 5Y 6/2; oolitic to fragmental; sand common, fine to coarse, sub-angular, poorly sorted; argillaceous and calcareous cement.....	3	167
Limestone; yellowish gray 5Y 8/1; oolitic to fragmental to earthy; sand common, firm to hard calcareous and argillaceous cement.....	3	170
Arenaceous limestone; yellowish gray 5Y 8/1; oolitic to fragmental; quartz abundant, fine sand to fine gravel, sub-angular, poorly sorted; forams fairly common; mostly weak with some hard calcareous cement.....	3	173
Arenaceous limestone; yellowish gray 5Y 8/1 to pale pinkish gray 5YR 8/1; oolitic to fragmental; quartz abundant, fine sand to fine gravel, sub-angular, poorly sorted; mostly weak with some hard calcareous cement.....	3	176
Do.....	3	179

MIDDLE EOCENE SERIES

CLAIBORNE GROUP

LISBON FORMATION

Arenaceous limestone; yellowish gray 5Y 8/1; oolitic to fragmental; quartz abundant, fine sand to fine gravel, sub-angular, poorly sorted; glauconite rare; well preserved shell fragments fairly common; mostly weak with some hard calcareous cement.....	3	182
Calcareous sand; light olive gray 5Y 6/1; fine to coarse-some fine gravel, sub-angular, poorly sorted; oolitic to fragmental limestone common; weak calcareous cement.....	3	185
Limestone; yellowish gray 5Y 8/1; oolitic to fragmental; quartz common, coarse sand to fine gravel, sub-angular, poorly sorted; hard calcareous cement.....	3	188
Limestone; yellowish gray 5Y 8/1 to light olive gray; sand to fine gravel, sub-angular, poorly sorted, clear; glauconite common; hard calcareous cement.	3	191
Limestone; yellowish gray 5Y 8/1 to light olive gray 5Y 6/1; oolitic to fragmental; quartz common, coarse sand to fine gravel, sub-angular, poorly sorted, clear; shell fragments and very well preserved forams common.....	12	203

	Thickness (feet)	Depth (feet)
Arenaceous limestone; light olive gray 5Y 6/1; alphanitic; sand abundant; very fine to medium; well sorted; muscovite common; rounded shell fragments common; forams fairly common; firm calcareous cement.....	3	206
Do, except glauconite common.....	15	221
Arenaceous limestone; olive gray 5Y 6/1; aphanitic; sand fragments abundant; very fine to coarse; sub- angular to sub-rounded; poorly sorted; rounded shell fragments common; oolitic to fragmental limestone common; hard calcareous cement.....	3	224
Calcareous sand; light olive gray 5Y 6/1 to light brownish gray 5YR 6/1; fine to coarse; sub-angular; poorly sorted; mixed with fine sandy aphanitic; oolitic; and fragmental limestone.....	3	227
Limestone; light olive gray 5Y6/1; mostly aphanitic with some oolitic; aphanitic portion contains abundant sand; very fine to medium; well sorted; clear quartz; glauconite common; rounded shell fragments common; firm to hard calcareous cement..	3	230
Limestone; light olive gray 5Y6/1 to pinkish gray 5YR 8/1; aphanitic to fragments; contains abundant sand; very fine to medium; well sorted; clear quartz; mixed with loose sand; medium to coarse; sub-angular to sub-rounded; poorly sorted; clear quartz; bryozoa abundant; mostly firm to hard calcareous cement.....	9	239
Do plus abundant glauconite.....	18	257

Thickness    Depth  
(feet)        (feet)

TALLAHATTA FORMATION

<p>Arenaceous limestone; light olive gray 5Y 6/1;  aphanitic with some fragmental and oolitic;  contains abundant sand, very fine to medium,  well sorted; glauconite abundant; firm to  hard calcareous contains abundant sand, very  fine to medium, well sorted; calcareous cement...</p>	27	284
<p>Arenaceous limestone; light olive gray 5Y 6/1;  aphanitic to fragmental to oolitic; contains  abundant sand, fine to coarse, sub-angular  to sub-rounded, poorly sorted; glauconite  rare; firm to hard calcareous cement.....</p>	3	287
<p>Do.....</p>	3	290
<p>Do except glauconite common.....</p>	3	293
<p>Same as preceding.....</p>	3	296
<p>Limestone; light olive gray 5Y 6/1; composed largely  of hard shell fragments in matrix of earthy,  sandy limestone; sandy abundant, fine to medium,  well rounded, fair-sorted, clear quartz;  glauconite abundant; firm to hard calcareous  cement.....</p>	3	299
<p>Arenaceous limestone; light olive gray 5Y 6/1;  composed of hard shell fragments and earthy sandy  limestone; mixed with and containing abundant  sand, fine to medium, sub-angular to sub-rounded,  well sorted, clear quartz; glauconite abundant;  weak to hard calcareous cement.....</p>	41	340

TALLAHATTA FORMATION-continued

Sand; light olive gray 5Y 6/1; very fine to medium; sub-rounded; well sorted; clear quartz; earthy limestone abundant; phosphate common; shell fragments common; weak calcareous cement.....	15	355
Calcareous sand; light olive gray 5Y 6/1; very fine to medium; well rounded; well sorted; clear quartz; phosphate common; earthy limestone abundant; weak to firm calcareous cement.....	21	376
Calcareous sand; light olive gray 5Y 6/1; very fine to fine-some medium and coarse; sub-angular to sub-rounded; fair-sorted; clear quartz; phosphate common; earthy limestone abundant; weak to firm calcareous cement.....	42	418
Limestone; light gray N7; aphanitic; earthy; contains very little sand.....	15	433
Sand; light olive gray 5Y 6/1; very fine to fine; sub-rounded; well sorted; clear quartz; clean; phosphate abundant; limestone fragments common; very weak sandy cement with some hard calcareous cement.....	15	448
Argillaceous; calcareous quartz; moderate yellowish brown 10YR 5/4; fine sand to medium gravel; sub-angular; poorly sorted; argillaceous and calcareous material common; weak to firm argillaceous cement.....	16	464

TALLAHATTA FORMATION-continued

Thickness Depth  
(feet) (feet)

Arenaceous limestone; medium gray N5; aphanitic; hard to earthy; mixed with and containing abundant sand, fine to medium, sub-rounded; well sorted, clear quartz; glauconite abun- dant; firm to hard calcareous cement.....	7	471
Siliceous limestone; medium gray N5; aphanitic; hard; dense; contains some sand and much sec- ondary silica and chert; glauconite abundant; hard siliceous and calcareous cement.....	8	479

LOWER EOCENE SERIES

WILCOX GROUP

TUSCAHOMA SAND

Siltstone; medium light gray N6; muscovite and glauconite abundant; firm calcareous and in silty cement.....	8	487
Silt; medium light gray N6; contains abundant sand, fine to coarse, sub-angular, poorly sorted, clear quartz; siliceous limestone fragments common; glauconite abundant; fine sandy glauconitic limestone fragments common; phosphate common; firm silty cement; <del>phos. save from above</del> .....	43	530

WILCOX GROUP-continued

TUSCAHOMA SAND-continued

Silt; medium light gray N6 to light olive gray 5Y6/1; contains abundant sand, very fine to fine-some medium and coarse, sub-angular to sub-rounded, fair-sorted, clear quartz; siliceous limestone fragments fairly common; glauconite abundant; firm silty and calcareous cement..... 10 540

Calcareous silt; light olive gray 5Y6/1; contains abundant sand, fine to coarse, sub-angular to sub-rounded, poorly sorted, clear quartz; sandy glauconitic limestone fragments and shell fragments common; siliceous limestone fragments fairly common; firm silty and calcareous cement 10 550

Quartz; yellowish gray 5Y8/1; fine to medium gravel, sub-rounded, poorly sorted, clear; very clean; phosphate abundant; very weak sandy cement..... 10 560

NOTE: Above sample seems to be out of place. It is typical of lower Claiborne.

Sand; medium light gray N6; fine to coarse, sub-angular to sub-rounded, poorly sorted, clear quartz; phosphate common; glauconitic silt common; weak to firm silty cement..... 15 575

LOWER EOCENE SERIES-continued

Thickness Depth  
(feet) (feet)

WILCOX GROUP-continued

TUSCAHOMA SAND-continued

Sandy silt; medium light gray N6 to greenish gray 5GY6/1; contains abundant sand, very fine to fine, sub-angular to sub-rounded, extremely well sorted; glauconite abundant; weak to firm silty cement.....	16	591
Do, except mixed with fine to coarse sorted sand with shell fragments.....	19	610

PALEOCENE SERIES

MIDWAY GROUP

CLAYTON FORMATION (upper unit)

Calcareous sand; medium light gray N6; very fine to fine, sub-angular to sub-rounded, well sorted; glauconite abundant; pyrite common; firm to hard calcareous cement.....	30	640
Silty sand; medium light gray N6; fine to coarse, sub-angular to sub-rounded, poorly sorted, clear to green quartz; glauconite and pyrite common; weak to firm silty cement.....	10	650
Calcareous sand; medium light gray N6; very fine to fine-some medium, sub-angular to sub- rounded, fair-sorted, clear quartz; weak silty cement.....	10	660
Sand; light olive gray 5Y6/1; mixture of very fine silty sand and fine to coarse loose sand and fine gravel; glauconite common; firm silty to weak sandy cement.....	20	680



MIDWAY GROUP-continued

CLAYTON FORMATION (limestone unit)

Limestone; very light gray N8 to medium light gray N6; fragmental; somewhat recrystallized; contains some very fine to fine lime-indurated glauconite sand; gastropod casts common; hard calcareous cement..... 20 700

Limestone; very light gray N8; fragmental; somewhat recrystallized; gastropod casts common; hard calcareous cement..... 90 790

CLAYTON FORMATION (lower unit)

Limestone; very light gray N8 to light gray N7; fragmental to sandy; about half of fragments are fragmental; non-sandy; half containing abundant sand, fine to coarse, sub-rounded, poorly sorted, clear quartz; glauconite abundant hard calcareous cement..... 10 800

Arenaceous limestone; very light gray N8 to light gray N7; mixed with and containing abundant quartz, fine to coarse-some fine to medium gravel, sub-rounded, poorly sorted, clear; pyrite common; weak to hard calcareous cement 10 810

## MIDWAY GROUP-continued

## CLAYTON FORMATION (lower unit)-continued

Arenaceous limestone; very light gray N8 to light gray N7; mixed with and containing abundant quartz, fine to coarse-some fine to medium gravel, sub-rounded, poorly sorted, clear; pyrite and feldspar common; weak to hard calcareous cement.....	10	820
Do plus a little silt.....	10	830

## UPPER CRETACEOUS SERIES (undifferentiated)

Silty limestone; light olive gray 5Y6/1; fragmental to sandy; sand very fine to coarse-some fine gravel, sub-angular to sub-rounded, poorly sorted, clear to milky with some green quartz; silt abundant; feldspar, glauconite, and pyrite common; firm to hard silty and calcareous cement.....	10	840
Calcareous silt; light olive gray 5Y6/1; sand abundant, fine to coarse-some fine gravel, sub-angular to sub-rounded, clear to milky quartz; glauconite and pyrite abundant; feldspar common; firm silty and calcareous cement.....	10	850
Do, except very calcareous.....	10	860

Thickness Depth  
(feet) (feet)

UPPER CRETACEOUS SERIES (undifferentiated)-continued

Limestone; very light gray N8 to light gray N7; fragmental; contains a little sand, fine to medium, sub-angular to sub-rounded, fair- sorted, clear quartz; hard shell fragments abundant; glauconite and silt fairly common; weak to hard calcareous cement.....	10	870
Do, except yellowish gray 5Y8/1 to light olive gray, 5Y6/1.....	20	890

Location: Dougherty County  
 Owner: City of Albany  
 Driller: Layne-Atlantic Company  
 Drilled: 1939  
 Well No.: 8405-3130-13  
 GGS NO.: 64  
 Elevation: 188  
 Lithologic description by: Vaux Owen, Jr.  
 Stratigraphic correlation by: Vaux Owen, Jr., and S. M. Herrick

	Thickness (feet)	Depth (feet)
<b>Undifferentiated residuum</b>		
No samples.....		
Midstone: very pale orange LOYR 8/2 to dark yellowish brown LOYR 4/2; mainly silt and clay; sand abundant, fine-to coarse-grained, sub-angular, poorly sorted, clear quartz; sphanitic limestone fragments abundant.....	27	27
Total undifferentiated residuum.....	30	30
<b>Upper Eocene series</b>		
<b>Jackson group</b>		
<b>Ocala limestone</b>		
Arenaceous limestone: very pale orange LOYR 8/2 to pale yellowish brown LOYR 6/2, colitic; sand abundant, very fine-to medium-grained, sub-angular, well sorted, clear quartz; silt and clay common; weak to firm calcareous cement.....	3	33
Argillaceous, calcareous sand: dark yellowish brown LOYR 4/2, fine-to coarse-grained, sub-angular, poorly sorted, clear quartz; colitic limestone fragments abundant; clay and silt abundant; weak calcareous cement.....	3	36
Calcareous, arenaceous midstone: very pale orange LOYR 8/2 and dark yellowish brown LOYR 4/2; mainly silt and clay; sand and gravel common, fine-grained sand to pebble gravel, well sorted, clear quartz; limestone colites abundant; weak calcareous cement.....	3	39
Calcareous, argillaceous sand: dark yellowish brown LOYR 4/2, fine-to coarse-grained, sub-angular, poorly sorted, clear quartz; colitic and sphanitic limestone fragments abundant; silt and clay abundant.....	3	42
Limestone: very pale orange LOYR 8/2, sphanitic and colitic, recrystallization common; sand and gravel common, fine-grained sand to granule gravel, sub-angular, poorly sorted, clear, milky, and yellow quartz; shell fragments common; firm calcareous cement.....	6	48
Limestone: very pale orange LOYR 8/2, sphanitic and colitic, recrystallization common; sand and gravel common; fine-grained to pebble gravel, sub-angular, poorly sorted, clear, milky, and yellow quartz; shell fragments common; firm calcareous cement.....	3	51

	Thickness (feet)	Depth (feet)
Sandstone: very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2, fine-to medium-grained, sub-angular, fair-sorted, clear quartz; marl and oolitic limestone abundant; firm calcareous cement.....	3	54
Limestone: very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2, oolitic and aphanitic; shell fragments common; weak to firm cement; mixed with abundant sand and gravel, fine-grained sand to granule gravel, sub-angular, poorly sorted, clear and milky quartz; silt and clay common.....	3	57
Limestone: very pale orange 10YR 8/2, saccharoidal; firm cement; mixed with abundant sand and gravel, fine-grained sand to granule gravel, sub-angular, poorly sorted, clear and milky quartz;.....	3	60
Limestone: very pale orange 10YR 8/2 to yellowish gray 5Y 7/2, aphanitic; sand common, fine-to coarse-grained, sub-angular, poorly sorted, clear, milky, and yellow quartz; marl common; shell fragments common; firm calcareous cement.....	3	63
Limestone: very pale orange 10YR 8/2 to yellowish gray 5Y 7/2, oolitic and aphanitic; sand common, fine-grained, sub-angular, poorly sorted, clear, milky and yellow quartz; shell fragments abundant; marl common; firm calcareous cement.....	3	66
Limestone: very pale orange 10YR 8/2 to yellowish gray 5Y 7/2, oolitic and aphanitic; sand and gravel common, fine-grained sand to pebble gravel; sub-angular to sub-rounded, poorly sorted, clear, milky, and yellow quartz; firm calcareous cement...	2	68
Arenaceous limestone: very pale orange 10YR 8/2 to yellowish gray 5Y 7/2, oolitic and aphanitic; sand and gravel abundant, fine-grained sand to granule gravel, sub-angular, well sorted, clear, milky, and yellow quartz; shell fragments common; firm calcareous cement.....	2	70
Arenaceous limestone: very pale orange 10YR 8/2 to yellowish gray 5Y 7/2, oolitic and aphanitic; sand abundant, fine-to coarse-grained, sub-angular, poorly sorted, clear, milky, and yellow quartz; bryozoa and shell fragments common; silt and clay rare; weak to firm calcareous cement.....	2	72
Limestone: very pale orange 10YR 8/2, aphanitic and oolitic, recrystallization common; sand and gravel common, fine-grained sand to pebble gravel, sub-angular, poorly sorted, clear, milky, and yellow quartz; forams, shell fragments, and bryozoa common; firm calcareous cement.....	2	74
Limestone: very pale orange 10YR 8/2, aphanitic and oolitic, recrystallization common; sand and gravel common, fine-grained sand to pebble gravel, sub-angular, poorly sorted, clear, milky		

	Thickness (feet)	Depth (feet)
and yellow quartz; forams, bryozoa, and shell fragments common; firm calcareous cement.....	2	76
Limestone: very pale orange 10XR 8/2, aphanitic and oolitic, recrystallization common; sand and gravel abundant, fine-grained to granule gravel, sub-angular, poorly sorted, clear, milky, and yellow quartz; shell fragments and bryozoa common; firm calcareous cement.....	2	78
Do.....	6	84
Arenaceous limestone: yellowish gray 5X 7/2 to pale yellowish brown 10XR 6/2, oolitic and aphanitic; sand abundant, fine-to medium-grained, sub-angular, well sorted, clear quartz; marl common; weak to firm calcareous cement.....	2	86
Limestone: very pale orange 10XR 8/2, aphanitic and oolitic; sand abundant, fine-to medium-grained, sub-angular, well sorted, clear quartz; shell fragments and bryozoa common; weak to firm calcareous cement..	2	88
Arenaceous limestone: very pale orange 10XR 8/2 to pale yellowish brown 10XR 6/2, oolitic and aphanitic; sand abundant, fine-to medium-grained, sub-angular, well sorted, clear quartz; shell fragments and bryozoa common; weak to firm calcareous cement.....	3	91
Arenaceous limestone: very pale orange 10XR 8/2 to pale yellowish brown 10XR 6/2, oolitic; sand abundant, fine-to medium-grained, sub-angular, well sorted, clear quartz; silt and clay common; weak to firm calcareous cement.....	3	94
Arenaceous limestone: very pale orange 10XR 8/2 to pale yellowish brown 10XR 6/2, oolitic and aphanitic; sand abundant, fine-to medium-grained, sub-angular, well sorted, clear quartz; silt and clay common; shell fragments common; weak to firm calcareous cement.....	3	97
Limestone: very pale orange 10XR 8/2, oolitic and aphanitic, recrystallization common; quartz sand rare; shell fragments common; well preserved large forams rare; firm calcareous cement.....	15	112
Limestone: very pale orange 10XR 8/2, oolitic and aphanitic, recrystallization common; quartz sand rare; shell fragments and forams common; firm calcareous cement.....	3	103
Do.....	15	124
Arenaceous limestone: very pale orange 10XR 8/2 to pale yellowish brown 10XR 6/2, oolitic and aphanitic; sand abundant, fine-to medium-grained, sub-angular, well sorted, clear quartz; silt and clay common; shell fragments and forams common; weak calcareous cement.....	3	127

	Thickness (feet)	Depth (feet)
Limestone; very pale orange 10YR 8/2, aphanitic; quartz sand rare; silt and clay common; shell fragments common; firm calcareous cement.....	1	128
Arenaceous limestone; very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2, oolitic; sand abundant, fine-to coarse-grained, sub-rounded, fair-sorted, clear and milky quartz; silt and clay common; forams common; weak to firm calcareous cement.....	3	131
Arenaceous limestone; pale yellowish brown 10YR 6/2, oolitic; sand abundant, fine-to coarse-grained, sub-rounded, fair-sorted, clear and milky quartz; silt and clay common; weak to firm calcareous cement..	3	134
Arenaceous, argillaceous limestone; pale yellowish brown 10YR 6/2 and light brown 5YR 6/4, oolitic; sand abundant, fine-to coarse-grained, sub-rounded, fair-sorted, clear and milky quartz; silt and clay abundant; firm to weak calcareous cement.....	3	137
Limestone; yellowish gray 5Y 7/2, aphanitic; quartz sand rare; marl common; forams common; weak to firm calcareous cement.....	3	140
Argillaceous limestone; yellowish gray 5Y 7/2, aphanitic; quartz sand rare; silt and clay abundant; weak to firm calcareous cement.....	3	143
Limestone; yellowish gray 5Y 7/2, oolitic and aphanitic; quartz sand rare; weak to firm calcareous cement.....	3	146
Arenaceous, argillaceous limestone; yellowish gray 5Y 7/2 to light brown 5YR 6/4, oolitic; sand abundant, fine-to medium-grained, sub-angular, well sorted, clear quartz; silt and clay abundant; weak to firm calcareous cement.....	3	149
Limestone; yellowish gray 5Y 7/2 to light brown 5YR 6/4; oolitic and aphanitic; quartz sand rare; silt and clay common; firm calcareous cement.....	3	152
Argillaceous limestone; yellowish gray 5Y 7/2 to pale yellowish brown 10YR 6/2, oolitic and aphanitic; quartz sand rare; silt and clay abundant; shell fragments common; weak to firm calcareous cement.....	3	155
Argillaceous limestone; yellowish gray 5Y 7/2 to pale yellowish brown 10YR 6/2, oolitic and aphanitic; quartz sand rare; silt and clay abundant; shell fragments common; weak to firm calcareous cement.....	3	158
Limestone; yellowish gray 5Y 7/2, oolitic and aphanitic; quartz sand rare; silt and clay common; shell fragments common; firm calcareous cement.....	3	161
Limestone; yellowish gray 5Y 7/2 to pale yellowish brown 10YR 6/2, oolitic and aphanitic; quartz sand rare; silt and clay common; shell fragments common; weak to firm calcareous cement.....	3	164
Argillaceous limestone; yellowish gray 5Y 7/2 to		

	Thickness (feet)	Depth (feet)
Argillaceous limestone: yellowish gray 5Y 7/2 to light olive gray 5Y 6/2, oolitic and aphanitic; sand common, fine-to coarse-grained, sub-angular, poorly sorted, clear quartz; silt and clay abundant; weak to firm calcareous cement.....	3	167
Limestone: yellowish gray 5Y 8/1, oolitic and aphanitic; quartz sand common; marl common; weak to firm calcareous cement.....	3	170
Arenaceous limestone: yellowish gray 5Y 8/1, oolitic and aphanitic; sand and gravel abundant, fine-grained sand to granule gravel, sub-angular, poorly sorted, clear quartz; forams and shell fragments common; weak to firm calcareous cement.....	3	173
Do.....	6	179
Lisbon top.....		180
Total Ocala limestone.....	150	

Middle Eocene series

Claiborne group

Lisbon formation

Arenaceous limestone: yellowish gray 5Y 8/1, oolitic and aphanitic; sand and gravel abundant, fine-grained sand to granule gravel, sub-angular, poorly sorted, clear quartz; glauconite rare; shell fragments common; weak to firm calcareous cement.....	3	182
Calcareous sand and gravel: light olive gray 5Y 6/1, fine-grained sand to granule gravel, sub-angular, poorly sorted, clear quartz; oolitic and aphanitic limestone fragments common; shell fragments common; weak calcareous cement.....	3	185
Limestone: yellowish gray 5Y 8/1, oolitic and aphanitic; sand and gravel common, coarse sand to granule gravel, sub-angular, poorly sorted, clear quartz; firm calcareous cement.....	3	188
Limestone: yellowish gray 5Y 8/1 to light olive gray 5Y 6/1, oolitic and aphanitic; sand common, coarse to very coarse grained, sub-angular, poorly sorted, clear quartz; glauconite common; firm calcareous cement.....	3	191
Limestone: yellowish gray 5Y 8/1 to light olive gray 5Y 6/1, oolitic and aphanitic; sand common, coarse-to very coarse-grained, sub-angular, poorly sorted, clear quartz; shell fragments and well preserved forams common; weak to firm calcareous cement.....	3	194
Do.....	9	203
Arenaceous limestone: light olive gray 5Y 6/1, aphanitic; sand abundant, very fine-to medium-grained, sub-rounded, well sorted, clear quartz; muscovite common; weak to firm calcareous cement.....	3	206



	Thickness (feet)	Depth (feet)
Similar to preceding; glauconite common.....	3	209
Do.....	12	221
Arenaceous limestone; light olive gray 5Y 6/1, spha- nitic; sand abundant, very fine-to coarse-grained, sub-angular to sub-rounded, poorly sorted, clear quartz; shell fragments abundant; firm calcareous cement....	3	224
Calcareous sand; light olive gray 5Y 6/1 to light brownish gray 5YR 6/1, fine-to coarse-grained, sub- angular, poorly sorted, clear quartz; limestone frag- ments containing fine grained-sand common.....	3	227
<i>grained</i> Arenaceous limestone; light olive gray 5Y 6/1, spha- nitic and oolitic; sand abundant, very fine-to medium, sub-rounded, well sorted, clear quartz; glauconite common; shell fragments common; weak to firm calcareous cement.....	3	230
Arenaceous limestone; light olive gray 5Y 6/1 to pinkish gray 5YR 8/1, sphaenitic; sand abundant, very fine-to medium-grained sand abundant, well sorted, clear quartz; mixed with loose sand of same description; bryozoa abundant; weak to firm calcareous cement.....	6	236
Do.....	3	239
Similar to preceding; glauconite abundant.....	3	242
Same as preceding.....	3	245
Do.....	6	251
Arenaceous limestone; light olive gray 5Y 6/1, sphaenitic and oolitic; sand abundant, very fine-to medium-grain- ed, sub-rounded, well sorted, clear quartz; glau- conite abundant; shell fragments common; weak to firm calcareous cement.....	3	254
Do.....	3	257
Do.....	3	260
Total Lisbon formation.....	77	

**Tallahatta formation**

Do.....	24	284
Arenaceous limestone; light olive gray 5Y 6/1, sphaenitic and oolitic; sand abundant, fine-to coarse-grained, sub-angular, to sub-rounded, poor- ly sorted, clear quartz; glauconite rare; weak to firm calcareous cement.....	3	287
Do.....	3	290
Similar to preceding; glauconite common.....	3	293
Do.....	3	296
Coquina; light olive gray 5Y 6/1; composed mostly of shell fragments; fine-to medium-grained quartz sand abundant; glauconite abundant; marl common; weak to firm calcareous cement.....	3	299
Arenaceous coquina; light olive gray 5Y 6/1; composed mostly of shell fragments; fine-to medium-grained		

	Thickness (feet)	Depth (feet)
quartz sand abundant; glauconite abundant; marl common; weak to firm calcareous cement.....	3	302
Do.....	38	340
Sand; light olive gray 5Y 6/1, very fine to medium-grained, sub-rounded, well sorted, clear quartz; marl abundant; phosphate common; shell fragments common.....	15	355
Calcareous sand; light olive gray 5Y 6/1, very fine to fine-grained-some medium and coarse-grained, sub-angular to sub-rounded, fair-sorted, clear quartz; phosphate common; marl abundant, core.....	(355-376, top)	
Do....., core.....	(355-376, bot)	
Do....., core.....	(376-418, top)	
Do....., core.....	(376-418, bot)	
Marl; light gray N7; quartz sand rare.....	(418-464, top)	
Sand; light olive gray 5Y 6/1, very fine to fine-grained, sub-rounded, well sorted, clear quartz, clean; phosphate abundant; limestone fragments common, core.....	(418-464, mid)	
Marl; moderate yellowish brown 10YR 5/4; fine to very coarse quartz sand abundant, core.....	(418-464, bot)	
Siltstone; medium gray N5; <del>medium to fine-grained</del> <del>fine to medium-grained</del> <del>sub-rounded</del> <del>well sorted</del> <del>clear quartz</del> ; glauconite and muscovite abundant; sand probably represents cuttings from above beds, core.....	(464-487, top)	
Siliceous limestone; medium gray N5, aphanitic; chert, secondary silica and glauconite abundant; firm siliceous and calcareous cement, core.....	(464-487, mid)	
Siltstone; medium light gray N6; muscovite and glauconite abundant, core.....	(464-487, bot)	
Do. core.....	(487-510, top)	
Do. core.....	(487-510, bot)	
Sand and gravel; light olive gray 5Y 6/1, medium to to pebble grained gravel, sub-angular, fair-sorted, clear quartz; coarse phosphate abundant; marl common.....	10	470
Do.....	10	480
Mixture of (464-487, top) and preceding.....	10	490
Wilcox top.....		480
Total Tallahatta formation.....	220	

Lower Eocene series

Wilcox group

Tussock sand

Mixture of (464-487, top), (464-487, bot), and (460-470)	10	500
Do.....	20	520
Silt; medium light gray N6; very fine to fine-grained quartz sand abundant, clear quartz abundant, green quartz common; glauconite abundant; limestone fragments containing fine grained quartz sand and glauconite common; sample is contaminated with cuttings of siliceous limestone from overlying beds.....	10	530

	Thickness (feet)	Depth (feet)
Do.....	10	540
Calcareous silt: light olive gray 5Y 6/1; very fine- to fine-grained quartz sand abundant, clear quartz abundant, green quartz common; limestone fragments containing fine-grained quartz sand and glauconite common; shell fragments common; sample is contami- nated with cuttings of siliceous limestone from overlying beds.....	10	550
Sand; yellowish gray 5Y 8/1, fine-to very coarse-grain- ed, sub-rounded, poorly sorted, clear quartz, clean; phosphate abundant; sample is of typical Tallahatta lithology and is apparently out of place.....	23	560
Sand; medium light gray N6, fine to coarse grained, sub-angular to sub-rounded, poorly sorted, clear quartz; phosphate common; glauconitic silt common....	15	575
Sandy silt; medium light gray N6 to greenish gray 5GY 6/1; sand abundant; very fine-to fine-grained, sub-rounded, well sorted, clear quartz abundant, green quartz common; glauconite abundant.....	16	591
Similar to preceding; mixed with fine-to coarse-grain- ed poorly sorted sand with shell fragments.....	35	610
Total Tusculum sand.....	130	

**Paleocene series**

**Midway group**

**Clayton formation (upper unit)**

Calcareous sand: medium light gray N6; very fine-to fine-grained, sub-rounded, well sorted, clear quartz abundant, green quartz common; glauconite abundant; pyrite common; weak calcareous cement.....	10	620
Do.....	20	640
Silty sand; medium light gray N6, fine-to coarse-grain- ed, sub-angular to sub-rounded, poorly sorted, clear quartz abundant, green quartz common; glauconite and pyrite common.....	10	650
Calcareous sand; medium light gray N6, very fine-to fine-grained, sub-angular to sub-rounded, fair- sorted, clear quartz; forams common.....	10	660
Sand; light olive gray 5Y 6/1, very fine-to fine-grain- ed, sub-rounded, well-sorted, clear quartz; glau- conite common; mixed with fine to very coarse grained sand and silt.....	10	670
Do.....	10	680
Total upper unit.....	70	

**Clayton formation (Clayton limestone)**

Limestone: very light gray N8 to medium light gray N6, aphanitic, recrystallization common; very fine- to fine-grained glauconitic quartz sand common; gastropod molds and shell fragments common; firm calcareous cement.....	10	690
Do.....	10	700

	Thickness (feet)	Depth (feet)
Limestone: very light gray N8, aphanitic, recrystallization common; impurities rare; gastropod molds and shell fragments common; firm calcareous cement.....	10	710
Do.....	80	790
Total Clayton limestone.....	110	
<b>Clayton formation (lower unit)</b>		
Arenaceous limestone: very light gray N8 to light gray N7, aphanitic; sand abundant, fine-to coarse-grained, sub-rounded, poorly sorted, clear quartz; glauconite abundant; firm calcareous cement.....	10	800
Arenaceous limestone: very light gray N8 to light gray N7; sand and gravel abundant, fine-grained sand to pebble gravel, sub-rounded, poorly sorted, clear quartz; pyrite common; weak to firm calcareous cement.....	10	810
Arenaceous limestone: very light gray N8 to light gray N7, aphanitic; sand and gravel abundant, sub-rounded, poorly sorted, clear quartz; pyrite and feldspar common; weak to firm calcareous cement.....	10	820
Similar to preceding; silt common.....	10	830
Total lower unit.....	40	
Total Clayton formation.....	220	
<b>Upper Cretaceous series undifferentiated</b>		
<i>grained</i> Marl: light olive gray 5Y 6/1; very fine-to very coarse quartz sand common, clear quartz abundant, green quartz common; feldspar, glauconite, and pyrite common; ostracods and forams common.....	10	840
Do.....	20	860
Coquina: very light gray N8 to light gray N7, composed mostly of shell fragments; fine-to medium <i>grained</i> quartz sand common; marl common; glauconite common; weak to firm calcareous cement.....	10	870
Similar to preceding; yellowish gray 5Y 8/1 to light olive gray 5Y 6/1.....	10	880
Do.....	10	890
Total Upper Cretaceous undiff.....	60	

**SUBMARY:**  
**Stratigraphy**

Undifferentiated residuum.....	30	0
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Thickness  
(feet)

Depth  
(feet)

SUMMARY:  
Stratigraphy:

Undifferentiated residuum.....	30	0
Upper Eocene series.....	150	30
Jackson group.....	150	30
Coala limestone.....	150	30
Middle Eocene series.....	300	180
Claiborne group.....	300	180
Lisbon formation.....	50	180
Tallahatta formation.....	220	260
Lower Eocene series.....	130	480
Wilcox group.....	130	480
Tuscaloosa sand.....	130	480
Paleocene series.....	220	610
Midway group.....	220	610
Clayton formation.....	220	610
Upper unit.....	70	610
Clayton ls.....	40	680
Lower unit.....	40	790
Upper Cretaceous undifferentiated.....	60	830

Possible Water-Bearing Zones

Limestone.....	30	180
Arenaceous coquina and sand.....	300	460
Siliceous limestone.....	470	490
Glaucconitic sand.....	560	610
Calcareous sand and limestone.....	610	680
Limestone.....	680	790
Arenaceous limestone.....	790	830
Coquina.....	860	890

DOUGHERTY COUNTY, CITY OF ALBANY #7

Eocene

Ocala limestone

No samples-----	27	27
Sand, very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2 to dark yellowish brown 10YR 4/2. Fine to coarse, sub-angular, poorly sorted. Silty in places and containing limestone fragments-----	15	42
Limestone, very pale orange 10YR 8/2. Partly recrystal- lized and containing abundant fine to coarse quartz and some silt. No fossils noted-----	9	51
Sand, very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2. Fine to medium, sub-angular, fairly well sorted. Highly calcareous and containing some calcareous material-----	3	54
Limestone, very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2. Contains abundant fine to very coarse quartz, some carbonaceous material and a few poorly preserved shell fragments-----	6	60
Limestone, very pale orange 10YR 8/2 to yellowish gray 5Y 7/2. Fine detrital texture, not as much quartz as preceding-----	12	72
Limestone, very pale orange 10YR 8/2. Hard, dense and part- ly recrystallized to finely detrital in texture. Some fine to coarse quartz and some silt-----	10	82
Limestone, very pale orange 10YR 8/2. Mostly hard, dense and partially recrystallized with some finely fragmental. Bryozoa fairly abundant. Not much quartz-----	2	84
Limestone, yellowish gray 5Y 7/2 to pale yellowish brown 10YR 6/2. Finely detrital and containing much fine to med- ium quartz-----	2	86
Limestone, very pale orange 10YR 8/2 to yellowish gray 5Y 7/2. Mixture of hard, dense, non-sandy and finely detrital sandy, silty limestone-----	2	88
Limestone, very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2. Mostly finely fragmental, sandy, silty limestone---	9	97
Limestone, very pale orange 10YR 8/2. Hard, dense, partly recrystallized. Contains small amt. of quartz. Poorly pre- served fossils-----	15	112
Similar to preceding except some of limestone is of frag- mental texture. Some "square" bryozoa noted-----	12	124
Limestone, very pale orange 10YR 8/2 to pale yellowish brown 10YR 6/2. Mostly finely fragmental with considerable silt-----	4	128

Limestone, pale yellowish brown 10YR 6/2. Very sandy and silty. Some of silt is reddish-----	9	137
Limestone, yellowish gray 5Y 7/2. Detrital fragments in earthy matrix. <del>Considerable reddish silt</del> -----		
Considerable reddish silt. Some shell fragments and bryozoa-----	27	164
Total Ocala limestone-----	164	
Claiborne group		
Limestone, yellowish gray 5Y 8/1 to light olive gray 5Y 6/1. Finely detrital with earthy matrix and abundant silt-----	3	167
Similar to preceding. Not much silt-----	3	170
Similar to preceding except containing much fine to coarse, angular and poorly sorted sand-----	6	176
Sand, grayish orange pink 5YR 7/2 to pale yellowish brown 10YR 6/2 to yellowish gray 5Y 8/1 to light olive gray 5Y 6/1. Fine to coarse, sub-angular, rather poorly sorted. Calcareous-----	9	185
Limestone, yellowish gray 5Y 8/1 to light olive gray 5Y 6/1 Dense to detrital. Contains abundant quartz and a few shell fragments. Some forams-----	18	203
Limestone, yellowish gray 5Y 8/1 to light olive gray 5Y 6/1. Mostly soft and earthy but containing hard shell fragments. Sandy in places-----	18	221
Limestone, yellowish gray 5Y 8/1 to light olive gray 5Y 6/1. Dense to detrital. Contains abundant quartz and a few shell fragments. Bryozoa abundant in places-----	18	239
Limestone, yellowish gray 5Y 8/1 to light olive gray 5Y 6/1. Mostly finely detrital with abundant bryozoa. Considerable sand----	12	251
Limestone, light olive gray 5Y 6/1. <del>Mostly some earthy material</del> <del>but mostly shell fragments</del> -----		
Mostly earthy with some shell fragments and considerable fine to medium sand near base----	45	296
Limestone, light olive gray 5Y 6/1. Largely shell fragments. Some earthy glauconitic fragments-----	44	340
Sand and silt, yellowish gray 5Y 8/1 to light olive gray 5Y 6/1. Sand is mostly fine to medium, sub-rounded and fairly well sorted with some coarse, angular, poorly sorted sand near base. Sand varies from silty to very clean. In places it is highly phosphatic and contains fish teeth-----	164	464
Limestone, medium gray N5 to medium dark gray N4. Hard, highly glauconitic and containing some sand-----	23	487
Total Claiborne group-----	323	
Wilcox group		
Silt and silty sand, light olive gray 5Y 6/1. Fine to coarse sand, sub-angular and poorly sorted. Heavily glauconitic and containing pyrite and phosphate-----	193	680
Total Wilcox group-----	193	

Paleocene

Clayton limestone

Limestone, very light gray N8 to medium light gray N6. Not much sand-----110

790

Same as preceding except containing abundant fine to coarse sand and some pyrite-----40

830  
830

Total Clayton limestone-----150

Cretaceous

Silt, light olive gray 5Y 6/1. Contains sandy and non-sandy limestone fragments-----30

860

Limestone, yellowish gray 5Y 8/1 to light olive gray 5Y 6/1. Many shell fragments. Very sandy bottom part-----70

930

Quartz, yellowish gray 5Y 8/1. Medium sand to fine gravel, sub-rounded, poorly sorted. Many shell fragments. Some of medium sand is lime-indurated-----10

940

Sand, light olive gray 5Y 6/1. Mostly fine to medium, sub-rounded, fairly well sorted. Indurated to loose with shell fragments-----30

970

Sandstone, light olive gray 5Y 6/1. Fine to medium. Many shell fragments, some pyrite. Some silt-----20

990

Sand, light olive gray 5Y 6/1. Fine to medium with shell fragments and pyrite-----20

1010

Sand, light olive gray 5Y 6/1. Fine to medium with some coarse, sub-rounded, fairly well sorted. Indurated in spots and containing mica, glauconite, pyrite and phosphate. Many shell and bryozoa fragments. Fairly clean. ~~Many ostracods bottom 10 feet~~-----40

1050

Silt, light olive gray 5Y 6/1 to olive gray 5Y 4/1. Micaceous and containing many forams-----150

1200

Total Cretaceous-----370