

Limestone: light-gray, extremely dense and crystalline (highly calcitized), fossiliferous (as above) 90 720

Pseudophragmina sp., *Lepidocyclina* sp. at 700-710.

Limestone: white, soft and chalky in streaks; otherwise considerably calcitized and crystalline, fossiliferous (as above) 100 820

Heterostegina ocala at 760-770.

Amphistegina pinarensis var. at 770-780.

Limestone: light-gray, extremely dense and crystalline, as interval 630-720 20 840

Summary:

No samples 40 40

In Pliocene to Recent (undifferentiated) 55 95

Miocene (undifferentiated) 420 515

Oligocene (undifferentiated) 75 590

No samples 20 610

In upper Eocene (Ocala limestone) 230 840

Potential Water-Bearing Zones:

Limestone 325 840

APPLING COUNTY

Location: 2,433 ft. north, 2,796 ft. west of southeast corner of Land Lot 522, 2nd Land District

Owner: No. 1 W. E. Bradley

Driller: Felsenthal and Weatherford

Drilled: July 1947

Well No.: GGS 148

Elev.: 249

Thickness (feet)

Depth (feet)

Miocene (Undifferentiated):

Sand: fine to medium-grained, angular 10 10

No samples 50 60

Clay: pale-green, sandy; interbedded sand, fine to medium-grained, angular, phosphatic at depth 300 360

Jet-black phosphatic pebbles abundant at 180-210.

Limestone: cream, somewhat saccharoidal and crystalline, rather dense, sandy, phosphatic, fossiliferous at depth (macroshells); scattered beds of sand, as above 120 480

Macroshells at 450-470.

Limestone: as above, but somewhat dolomitized 40 520

Oligocene (Undifferentiated):

Limestone: light-gray, much calcitized, massive, nodular, fossiliferous (some megafossils, echinoid and bryozoan remains, and Foraminifera) 120 640

Rotalia mexicana var. at 540-550.

*Gypsina globula*¹, *Asterocyclina* sp. at 560-570.

*Dictyoconus*¹ sp. at 580-590.

Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: cream, more porous than above, fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera) 120 760

Lepidocyclina sp., *Camerina* sp. at 640-650.

Operculinooides ocalanus, *Asterocyclina* sp. at 650-660.

Camerina striatoreticulata at 700-710.

Limestone: as above, but much calcitized, crystalline, massive, fossiliferous (Foraminifera at certain levels) 160 920

Operculina mariannensis at 780-790.

Various species of larger Foraminifera abundant at 800-900.

In Middle Eocene: Claiborne Group: Lisbon Formation:

Limestone: cream, much calcitized, somewhat granular in texture, rather massive, coarsely glauconitic at depth, cherty at certain levels; interbedded limestone, gray, dense, crystalline, massive, sandy, glauconitic (finely disseminated), fossiliferous (macroshells and bryozoan remains at certain horizons); sand, fine to medium-grained, angular, somewhat phosphatic 430 1,350

Cibicides westi at 1260-1270.

Operculinooides sp. at 1300-1310.

Sand: fine to coarse-grained, angular; marl, gray, somewhat carbonaceous, micaceous, glauconitic 80 1,430

Limestone: white, dense, much calcitized, coarsely glauconitic, fossiliferous; dolomitic limestone, dark-brown, saccharoidal, glauconitic 100 1,530

Macroshells common to abundant at 1450-1530.

¹Reworked (?) fossil of middle Eocene age.

66-147

W.F. Kradley #1

Thickness (feet) Depth (feet)

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Tallahatta Formation:
 Sand: fine to coarse-grained, angular, abundantly glauconitic; relatively thin stringers of marl, dark-gray, silty, glauconitic, fossiliferous (Foraminifera at certain horizons) .. 160 1,690
Cibicides tallahattensis at 1570-1580.
Valvulineria jacksonensis var. at 1600-1610.

Inoceramus prisms common, *Kyphopyxa christneri* at 2900-2910.
 Sand: fine to coarse-grained, angular, somewhat indurated at certain levels, micaceous, phosphatic, fossiliferous, (macroshells, a coquina at certain horizons) 100 3,050

Lower Eocene and Paleocene (Undifferentiated):
 Marl: gray, silty, carbonaceous, micaceous, glauconitic, fossiliferous (Foraminifera) 70 1,760
Eponides dorfii, *Globorotalia wilcoxensis* at 1715-1538.

Tuscaloosa Formation:
 Sand: fine to coarse-grained, angular, glauconitic, fossiliferous (macroshells) 70 3,120

No samples 80 1,790

Sand: dark-gray to black, fissile, carbonaceous (finely disseminated); interbedded sand, as above 200 3,320

Limestone: gray, much calcitized, dense, crystalline, massive, glauconitic 90 1,880

Sand: fine-grained, indurated, micaceous, glauconitic 100 3,420

Sand: fine to medium-grained, angular; interbedded marl, dark-gray, somewhat fissile, carbonaceous, micaceous (finely disseminated); and limestone, as above 215 2,095

Sand: coarse-grained, massive, angular, arkosic; clay, dark-brown to brick-red, waxy, micaceous, sandy 540 3,960

Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):
 Sand: fine to medium-grained, angular; interbedded marl, gray, silty, glauconitic, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera at certain levels) 215 2,310
Anomalina pseudopapillosa at 2155-2170.
Globotruncana sp., *Gaudryina* sp. at 2275-2290.
Dorothyia sp., *Guembeina striata* at 2300-2310.

Siderite nodules abundant at 3480-3490.
Lower Cretaceous (?) (Undifferentiated):
 Clay: pale-green to brick-red, waxy, highly micaceous, sandy; interbedded sand, coarse-grained, angular, arkosic 115 4,075

Marl: gray to brown, more fissile (shaley) with depth, silty, micaceous, carbonaceous, pyritiferous, fossiliferous (mega-fossils, Ostracods, and Foraminifera at certain levels) 440 2,750
Cibicides harperi at 2480-2490.
Planulina taylorensis at 2580-2590.

Crystalline rock, undifferentiated 23 4,098

Sand: fine to medium-grained, angular, phosphatic; interbedded marl, as above 150 2,900

Basement Complex (Undifferentiated):
 Crystalline rock, undifferentiated 23 4,098

Marl: brown, fissile, silty, carbonaceous, micaceous, pyritiferous, fossiliferous (Foraminifera) 50 2,950

Miocene (undifferentiated) 520
 Oligocene (undifferentiated) 120
 Upper Eocene (Ocala limestone) 280
 In middle Eocene (Lisbon formation) 610
 In middle Eocene (Tallahatta formation) 160
 Lower Eocene and Paleocene (undifferentiated) 405
 Upper Cretaceous (post-Tuscaloosa undifferentiated) 955
 Upper Cretaceous (Tuscaloosa formation) 910
 Lower Cretaceous (?) (undifferentiated) 115
 Basement complex (undifferentiated) 23

Potential Water-Bearing Zones:
 Limestone 320 860
 Sand: fine to coarse-grained 50 1,430

Summary:
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 Oligocene (undifferentiated) 120
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