

665 3084

#1 McRae  
Wheeler County, Georgia

July 1982  
James A. Miller.

Depth	Lithology
0-50	No sample.
Non-marine Miocene	
50-60	Sand, white, coarse to very coarse-grained, subangular to subrounded. White calcareous clay binder prominent. Skip to -
240-250	In Hawthorn. Limestone, light-gray, very fine crystalline, highly sandy (fine-grained sand). Fine-grained black phosphate, coarse broken oyster shells prominent.

Oligocene

250-260	Limestone, cream, medium pelletal, pellets bound by microcrystalline cream limestone matrix. Much white algal material (mostly balls) present. First <u>Pararotalia mexicana</u> at 290-300 feet. Skip to -
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Late Eocene

330-340	Limestone, off-white, very fine pelletal, highly porous, with bryozoa common. Skip to -
580-590	Limestone as above with large <u>Lepidocyclina</u> sp. prominent.
590-600	Limestone as above.
600-610	Limestone as above. Add trace of dark-brown fine crystalline saccharoidal highly porous dolomite.
610-620	Limestone as above with increase in dolomite to 30 percent.
620-630	No sample.
630-640	Limestone as above with increase in dolomite to 55 percent.

Middle Eocene

640-650	Sandy limestone, medium-gray to white mottled. 55 percent medium-gray to white mottled. 55 percent medium-gray highly sandy limestone. 45 percent chalk-white algal mats and balls, enclosed in sandy limestone. Trace of dark-green weathered very fine-grained glauconite. Skip to -
1130-1140	Limestone, medium-gray, very fine-grained (silty texture), very finely sandy and glauconitic.
1140-1150	Limestone as above.
1150-1160	Limestone as above.
1160-1170	Limestone as above.

Early Eocene

1170-1180	Sand, medium-gray, medium-grained, subangular to subrounded, well-sorted. Medium-grained dark to light-green glauconite prominent. Skip to -
1400-1410	Limestone, medium-gray, very finely sandy and glauconitic. Light-gray waxy subfissile clay prominent.

1410-1420 Sandstone, medium-gray, medium-grained, in matrix of microcrystalline limestone. Hard, dense, with poor returns. Much iron-stained quartz and shell material.

1420-1430 Sandstone as above.

1430-1440 Sandstone as above.

1440-1450 Sandstone as above.

1450-1460 Sandstone, light-gray, semi-indurated, fine-grained. Trace of dark-green glauconite.

1460-1470 Sandstone as above.

1470-1480 Sandstone as above but earthy, with dark-brown cast.

1480-1490 Sandstone as above.

1490-1500 Sand, fine-grained, angular, well-sorted, in matrix of dark brown clay.

#### Paleocene

1500-1530 Limestone, light-gray, highly sandy, hard, with gastropod casts and molds prominent. Skip to -

1590-1620 Sand, coarse to very coarse-grained, subangular to subrounded. Medium to coarse-grained light to dark-green glauconite prominent.

1620-1650 Sand as above.

#### Cretaceous

1650-1680 Clay, medium-gray, calcareous, soft. Very fine-grained sand prominent. Trace of very fine-grained muscovite.

1680-1710 Clay, dark-gray, highly sandy, sand poorly sorted. Fine-grained muscovite common.

#### Remarks -

The well is near #1 Towns and the tops accordingly are similar. The McRae samples show sharper breaks, however, and more limestone than was seen in the Towns well. McRae log starts at 920 feet. The Cretaceous clays do not appear to be fossiliferous.

#### Top (log depths)

0-50	No sample
50-250	Miocene
250-330	Oligocene
330-640	Late Eocene
640-1153	Middle Eocene
1153-1491	Early Eocene
1491-1650	Paleocene (based on Clayton-type limestone)
1650	Cretaceous (based on muscovite)