

SECTION AT "THE BLUFFS" ON NORTHEAST CAPE FEAR RIVER, 6 MILES
SOUTHEAST OF BURGAW, 41½ MILES ABOVE WILMINGTON.

Pleistocene:

FEET.

Loose white to yellow sand, containing a few layers of drab clay.

Eocene (Castle Hayne):

Loose light greenish-gray micaceous sand, containing considerable
glauconite at base, with a few fragments of branching Bryozoan
fossils 9

Marl is reported to occur a few miles north of this locality.

At Rocky Point the Eocene is well exposed, a hard layer of limestone which is there developed having given the name to the locality. It seems probable that the Eocene is developed as a continuous bed all along Northeast Cape Fear River, though in places it has probably been entirely worn away by pre-Pleistocene erosion.

About 30½ miles above Wilmington and 3¼ miles above Castle Hayne bridge, on the left bank of Northeast Cape Fear River, rotten fossiliferous Eocene rock, similar to certain layers at the Castle Hayne rock quarries, rises 7 feet or 8 feet above water's edge.

SECTION AT ROCK QUARRY, CASTLE HAYNE.

Pleistocene:

FEET.

Loose, dry, light-gray sand, fine in texture..... 1-2

Sand, varying in color, gray and yellow, and varying in texture,
coarse to fine..... 0-2

Streak of clean, pure, white sand, fine grained, and varying in
thickness, there being some pockets or lenses as much as 2 feet
in thickness 0-2

Mottled yellow and pink argillaceous sand, rather hard and re-
sistant when dried in the sun..... 2-3

Streak of dark sand, which may owe its color to vegetable matter. 0-1

Greenish-gray sandy clay, mottled with yellow and pink in places.

The brown color is probably due to decomposition of glauconite,
and oxidation of the iron. There are also present white streaks,
probably lime. Both the lime and the glauconite are derived
from the underlying Eocene. The band occurs along the line of
unconformity 0-1

Irregular contact.

Eocene (Castle Hayne):

Fossiliferous Eocene limestone, very much decomposed. Cavities
have been formed in this limestone by the solution of lime by
water. In places the cavities have been partially refilled by a
deposit of glauconite sand brought in by running water. Con-
tains great quantities of sharks' teeth..... 0-8

Solid fossiliferous limestone containing many perfect Echinoid fos-
sils 1-2

Conglomerate, consisting of dark green to black phosphate pebbles
up to 3 inches in diameter, also sandstones and quartz pebbles
and sand grains, all cemented with lime. This layer contains
many Cretaceous fossils mixed with characteristic Eocene
species 1