

the Miocene marl, which has a rather coarse, loose, sandy matrix, and is iron-stained. Shells are numerous. Phosphatized black pebbles as much as 1 inch in diameter occur in the marl.

SECTION AT NATURAL WELL.

Two miles southwest of Magnolia, Duplin County, is the famous Natural Well, which is so frequently referred to in geological literature of the State. This consists of a sink perhaps 75 to 100 feet in diameter and nearly circular and about 30 feet in depth. The wall on one side is quite steep, being nearly vertical, but on the other side is sloping enough to permit one to walk down to the water's edge. At the bottom of the sink there is a pond about 30 feet in diameter. (See Plate XII, B, opposite p. 250.)

The section is as follows:

Pleistocene:	FEET.
White loose sand, surface soil.....	1
Coarse yellow sand.....	3
White, argillaceous sand, mottled with yellow, becoming freer from clay toward base.....	6
<i>Miocene (Duplin):</i>	
White marl, contains some sand, but consists principally of very perfectly preserved shells, in a matrix of fragmental shells.....	3
Light green calcareous, argillaceous sand, interstratified with thin layers of calcareous sandstone, the whole being solid and compact, making a vertical wall on one side of the sink.....	9

Base of marl contains some water-worn pebbles, and one cobble as much as 4 inches in diameter was observed. Small pebbles occur sparingly throughout the fragmental marl.

Just to the east of the preceding, with their rims almost touching, is another similar sink. The walls are less steep, however, and the pond at the bottom is only a few feet in diameter. The strata in it are not well exposed.

Many lists of fossils obtained at the Natural Well have been published at various times. The most complete one is that given by W. H. Dall in vol. III of the Transactions of the Wagner Free Institute of Science. It is here given.

FOSSILS FROM NATURAL WELL.

GASTROPODA:

Adeorbis concavus H. C. Lea.
Adeorbis holmesii Dall.
Adeorbis leai Dall.
Adeorbis orbigny Fischer.
Adeorbis supranitidus S. Wood.

Anachis (?) *interrupta* Conrad.
Astyris sp.
Aurinia dubia Broderip.
Aurinia mutabilis Conrad.
Aurinia obtusa Emmons.
Caecum floridanum Stimpson.