The Deep River, a major tributary of the Cape Fear River, controls the drainage in the quadrangle. In the unincorporated communities of Goldston, Gulf and Carbonton within the quadrangle. The local transportation infrastructure is primarily focused on state highways and some smaller county roads. The Deep River is also an important water source for the region, providing drinking water to numerous communities throughout the quadrangle.

The Triassic basin was digitized as presented by Reinemund. Oil and Gas Potential

The oldest and highest terrace deposits (Qth) include fluvial deposits of an ancestral Deep River, which has since incised to its present level. The elevation of this terrace level ranges from approximately 200 to 300 feet above sea level. These deposits consist of conglomeratic sandstone, sandstone, siltstone and mudstone. These deposits are characterized by a cryptocrystalline-like groundmass and are locally phyllitic. They locally contain interbedded dacitic lavas identical to the Zhdlt unit, which is not present in the quadrangle. These deposits also contain lesser amounts of other lithologies such as conglomerate, sandstone, siltstone, and mudstone. The deposits are locally bedded, and locally tuffaceous with a variable degree of metamorphism. The lithological assemblage is interpreted as representing distal deposits of an ancestral Deep River.

The Trpc Conglomerate of the Pekin Formation:

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