

Hydrology - Open-File Report 25

Preliminary Geohydrologic Framework for Colleton County, South Carolina

By
W. Brian Hughes
1987

SUMMARY

In recent months, some confusion has occurred over which geologic and hydrologic units are tapped by wells in Colleton County, South Carolina. This confusion prompted the author to develop a working model of the geohydrologic framework for the area. This model should be further refined, extended, and altered as future data are collected.

Colleton County has not received a great deal of attention by previous investigators. Gohn and others (1977) examined the lithostratigraphy of a corehole in nearby Dorchester County. Hayes (1979) drilled 25 test wells in Colleton and Hampton Counties as part of his project, providing well cuttings and geophysical logs for much of the county. Park (1985) studied the geology and hydrology of Charleston, Dorchester, and Berkeley Counties. His sections are useful for establishing trends of the geologic units in adjacent Colleton County. Reid and others (1986) provided a geologic and hydrologic analysis of a well in northern Dorchester County. The two wells examined by the U. S. Geological Survey, 23CC-i1 (Gohn and others, 1977) and 25Z-b1 (Reid and others, 1986) provided the basis for the geologic correlations in this study.

The results of this study are based on the aforementioned previous studies, brief examinations of the lithologic samples collected during the Hayes (1979) investigation, and file data such as geophysical logs and drillers logs.

Copies of this report are available in the SCDNR's Columbia office.