



Hughbert Collier, Ph.D., P.G.

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Education

Ph.D. Geosciences
University at Texas at
Dallas

M.A.T. in Geology
Mississippi State Uni-
versity

Industry Tenure

30 years

Collier Consulting

Tenure

20 years

Location

Stephenville

Dr. Collier's professional experience includes over thirty years of consulting, research, technical support for litigation, and teaching throughout the United States. Dr. Collier has conducted petrophysical and hydrogeological investigations of a number of aquifers throughout the United States. He has also provided technical support, including field investigations, hydrogeological reports, petrophysical analyses of fresh and saline water aquifers, and reviews of technical reports, for a number of clients.

Hughbert has been the principal investigator for a number of research projects in which he was the geologist, hydrogeologist, and/or petrophysicist. One of his specialties is the hydrogeological characterization of aquifers by integrating various types of data (e.g. borehole geophysics, water analyses, pumping tests, cuttings, cores, and surface geophysics). This expertise has been applied to a number of groundwater studies, environmental litigation cases, and brackish water studies.

Hughbert has authored a dozen papers, including a textbook, **Borehole Geophysical Techniques for Determining the Water Quality and Reservoir Parameters of Fresh and Saline Water Aquifers in Texas**. He has taught short courses for the National Ground Water Association and Environmental Education Enterprises. He has taught undergraduate and graduate geology and hydrogeology courses at Tarleton State University, Stephenville, Texas.

Professional Experience

Aquifer characterization, including brackish water characterization, in North Texas.

Numerous hydrogeologic studies throughout the state of Texas, focusing on aquifer characterization and water quality.

Conducted a research project for the Texas Water Development Board, which resulted in the publication of (1993). *Borehole Geophysical Techniques for Determining the Water Quality and Reservoir Parameters of Fresh Saline Water Aquifers in Texas* (Report No. 343). (Vols. 1-2). Texas Water Development Board.

Delineated brackish and saline groundwater within San Patricio County, Texas.

Mapped, quantified, and developed brackish groundwater resources across the Permian Basin for several oil and gas companies.

Mapped, quantified, and developed the brackish groundwater resources for portions of Cameron County, Texas.

Characterized fresh/saline-water interface in the Edwards Aquifer in New Braunfels and San Marcos, Texas.

Researched techniques for calculating hydraulic conductivity from borehole geophysical logs.

Quantified water quality in the Ogalla aquifer, Roberts County, Texas.

Taught borehole geophysical short courses throughout the United States.

**Publications/
Presentations**

Investigation of the Fresh/Saline-Water Interface in the Edwards Aquifer in New Braunfels and San Marcos, Texas, Report 92-02 (two volumes), Edwards Underground Water District, coauthored with Diane Poteet.

"Proper Application of Borehole Geophysical Techniques to the Analysis of a Carbonate Aquifer: A Case History" in Proceedings of the Symposium on the Application of Geophysics to Engineering and Environmental Problems 1992, p. 55-70.

Petrophysical Properties and Geology of Selected Intervals in the Frio Formation, Stratton Field, South Texas, for Modeling Interwell Seismic Logging Responses. Poster session at the 1996 G.C.A.G.S. Annual Convention. Collier and Parra.

"Techniques for Determining Groundwater Quality from Borehole Geophysical Logs", a presentation given at various local, state, and national meetings.

Mirror, Mirror, On the Wall, Who's the Fairest Aquifer of Them All? – Locating and Assessing Aquifers Suitable for Storing Excess Water, AGWT, 2014. Collier and Collier.

Water, Water Everywhere...Finding What's Not Fit to Drink, AGWT, 2013. Collier and Collier.

Groundwater Resources: What to Expect When You're Expecting Shale Gas Development in Your Area, AGWT, 2012. Collier and Collier.

Issues in Groundwater Hydrology: "Let's Open Our Minds", IWSCOT, 2011. Collier and Collier.

Groundwater Conservation Districts and the Future of Groundwater Production in Texas, IWSCOT, 2010. Collier and Collier.

Desired Future Conditions and the Availability of Groundwater Supplies, TRWA, 2008. Collier and Collier.

"Squeezing More of Life's Blood from Rocks" – Options for Increased Groundwater Production, IWSCOT, 2007. Collier and Collier.

NMR and Acoustic Signatures in Vuggy Carbonates of South Florida @ in 2001 SPWLA Transactions. Parra, Hackert, Collier, and Bennett.