INTRODUCTION

This report depicts annual water-level altitudes for 7 years from 1982 to 1988 in the Chicot and Evangeline aquifers in Fort Bend County and adjacent areas, Texas. The map is a compilation of water-level data from the U.S. Geological Survey (USGS) and other agencies. It shows the water-level changes in these aquifers from 1982 to 1988.

GEOHYDROLOGY

The Chicot aquifer consists of sediments of Miocene and Pliocene age, and the underlying Evangeline aquifer consists of sediments of Eocene and Miocene age. The Chicot aquifer is unconfined and lies in most of Fort Bend County, whereas the Evangeline aquifer is confined to a thin layer of clay in the eastern part of the county. The Chicot aquifer is uniform in its hydraulic characteristics, whereas the Evangeline aquifer has a more complex geology.

WATER-LEVEL MEASUREMENTS

Water-level measurements are conducted using a steel tape, electronic sensor, and data loggers. Most wells are pumped once daily, but some are pumped more frequently. Multiple measurements are made when wells are not being pumped.

REFERENCES CITED


EXPLANATION

- - - 82 - - Water-level contour—Shown altitude at which water level would have been in tightly cased well. Contour interval 50 feet. Datum is sea level

- - - - - Boundary of study area

Data points—Well in which water-level measurement was made. One point can represent more than one well.