

INTRODUCTION

The purpose of this report, which was prepared in cooperation with the City of Houston, the Harris-Galveston Coastal Subsidence District, and the Texas Department of Water Resources, is to show the altitudes of water levels in wells in the Chicot and Evangeline aquifers in the Houston, Texas, metropolitan area. The maps are based on water-level measurements in spring of 1982 in about 550 wells.

Both the Chicot and Evangeline aquifers are composed of several sand layers with different potentiometric surfaces. These maps, however, show approximations of single potentiometric heads. Maps showing the altitudes of water levels have been published in many reports on ground-water development in the Houston area, the most recent of which (Gabrysch, 1981) presented maps of the altitudes of potentiometric surfaces for 1981.

REFERENCE CITED

Gabrysch, R. K. 1981, Approximate altitude of water levels in wells in the Chicot and Evangeline aquifers in the Houston area, Texas, spring 1981: U.S. Geological Survey Open-File Report 81-876.

EXPLANATION

—100— WATER-LEVEL CONTOUR-- Shows altitude at which water level would have stood in tightly cased wells. Contour interval 50 feet. National Geodetic Vertical Datum of 1929

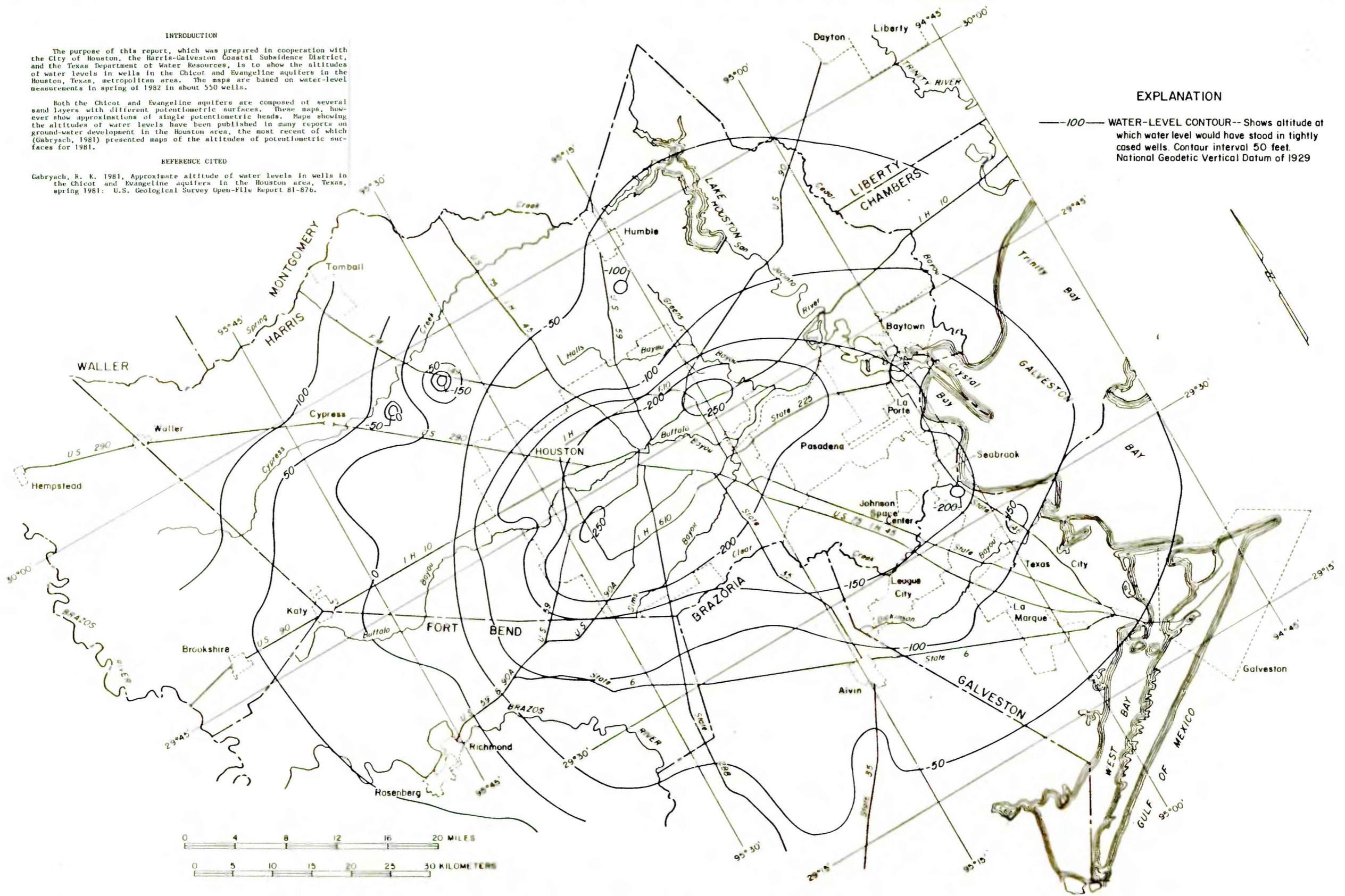


FIGURE 1.—APPROXIMATE ALTITUDE OF WATER LEVELS IN WELLS IN THE CHICOT AQUIFER, SPRING 1982

APPROXIMATE ALTITUDE OF WATER LEVELS IN WELLS IN THE CHICOT AND EVANGELINE AQUIFERS IN THE HOUSTON AREA, TEXAS, SPRING 1982

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JUNE 1982

Base from Texas Department of
Highways and Public Transportation
General Highway Map