

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 1984 in about 500 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 (Strause, 1983) presented maps of the altitudes of potentiometric surfaces for 1983.

REFERENCE CITED

Strause, J. L., 1983, Approximate altitude of water levels in wells in the Chicot and Evangeline aquifers in the Houston area, Texas, spring 1983; U.S. Geological Survey Open-File Report 83-529.

EXPLANATION

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

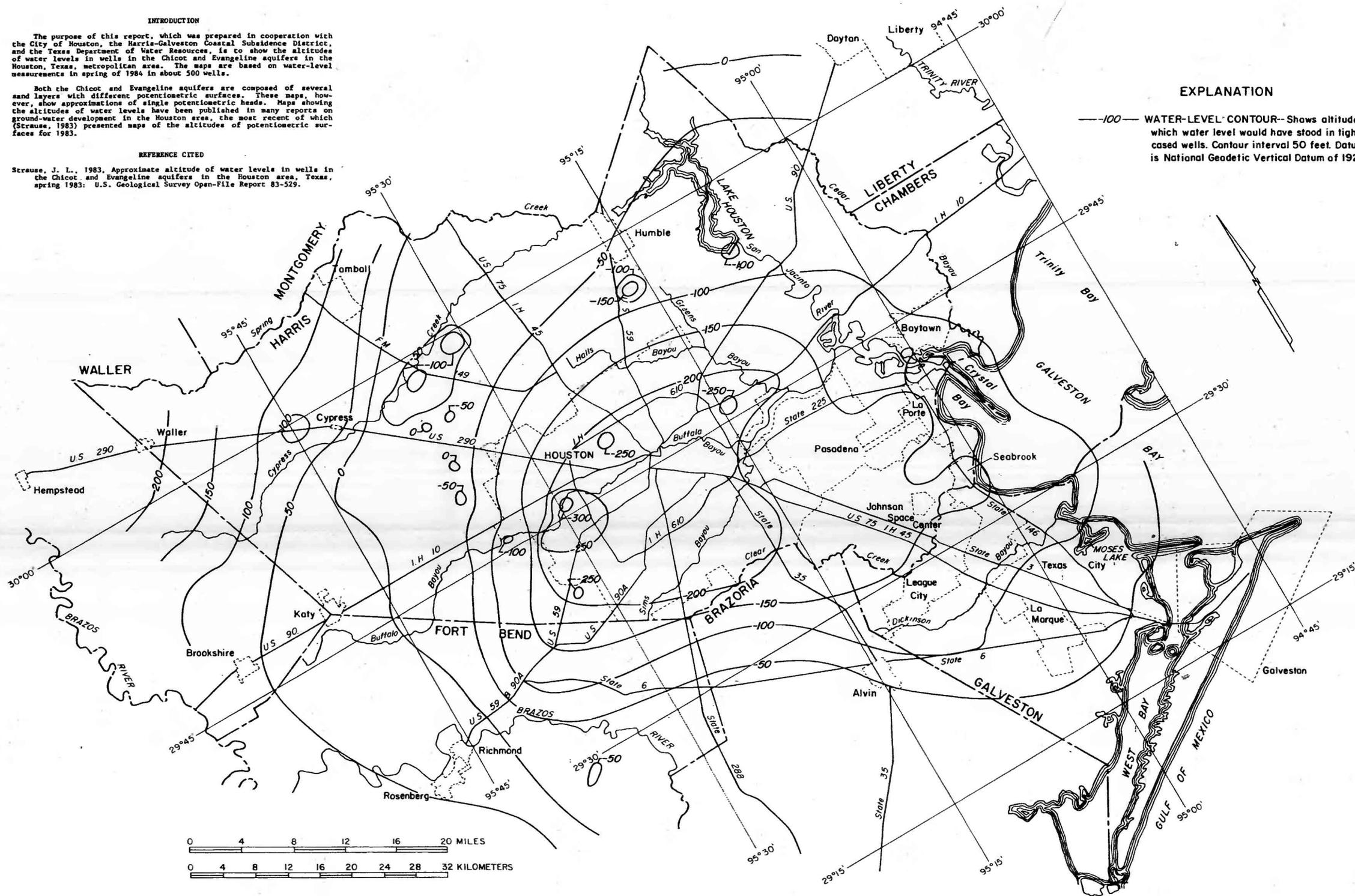


Figure 1.—Approximate altitude of water levels in wells in the Chicot aquifer, Spring 1984

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

APPROXIMATE ALTITUDE OF WATER LEVELS IN WELLS IN THE CHICOT AND EVANGELINE AQUIFERS IN THE HOUSTON AREA, TEXAS, SPRING 1984

By  
C.E. RANZAU, JR.  
JUNE 1984