PREPARED IN COOPERATION WITH THE
CITY OF HOUSTON
AND THE
HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT

INTRODUCTION

The purpose of this report, which was prepared in cooperation with the City of Houston and the Harris-Galveston Coastal Subsidence District, is to show the altitudes of water levels in wells in the Chicot and Evangeline aquifers in the Houston metropolitan area. Of the 441 wells measured, 327 were used to construct the maps of potentiometric surface.

Both the Chicot and Evangeline aquifers are composed of several sand layers, each with a separate potentiometric surface. These maps, however, show a single potentiometric surface which represents the collective water levels for the sand layers comprising each aquifer. 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 (Williams and others, 1987) presented maps of the altitudes of potentiometric surfaces for 1987.

REFRENCE CITED

Williams, J.F., III, Lind, W.B., and Coplin, L.S., 1987, Approximate altitude of water levels in wells in the Chicot and Evangeline aquifers in the Houston area, Texas, spring 1987: U.S. Geological Survey Open-File Report 87-233, 2 p.

CONVERSION FACTORS

Values in this report are given in inch-pound units. Conversion factors for metric (International System) units are listed below:

Multiply inch-pound units	By	To obtain metric units
foot	0.3048	meter
mile	1.609	kilometer

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called "Mean Sea Level of 1929."

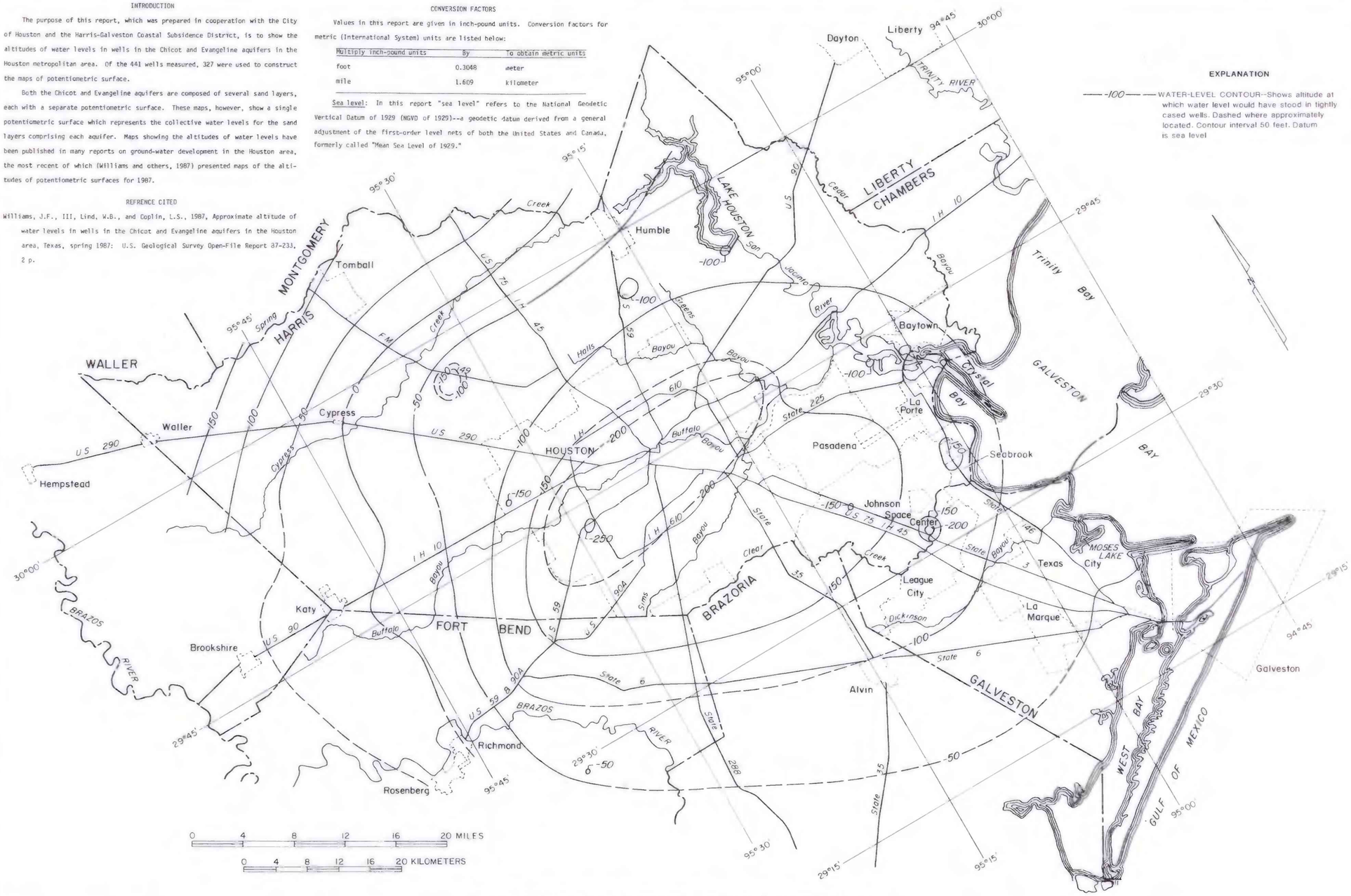

Figure 1.--Approximate altitude of water levels in wells in the Chicot aquifer, spring 1988

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 1988

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