

Introduction

The purpose of this report, which was prepared in cooperation with the cities of Houston and Galveston, 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 1977 and 1978 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 surfaces that represent composite hydraulic 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, 1977) presented maps of the altitudes of potentiometric surfaces for 1975.

Reference Cited

Gabrysch, R. K., 1977, Development of ground water in the Houston district, Texas, 1940-74: U.S. Geological Survey Open-File Report 77-413.



EXPLANATION

○ OBSERVATION WELL

— -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

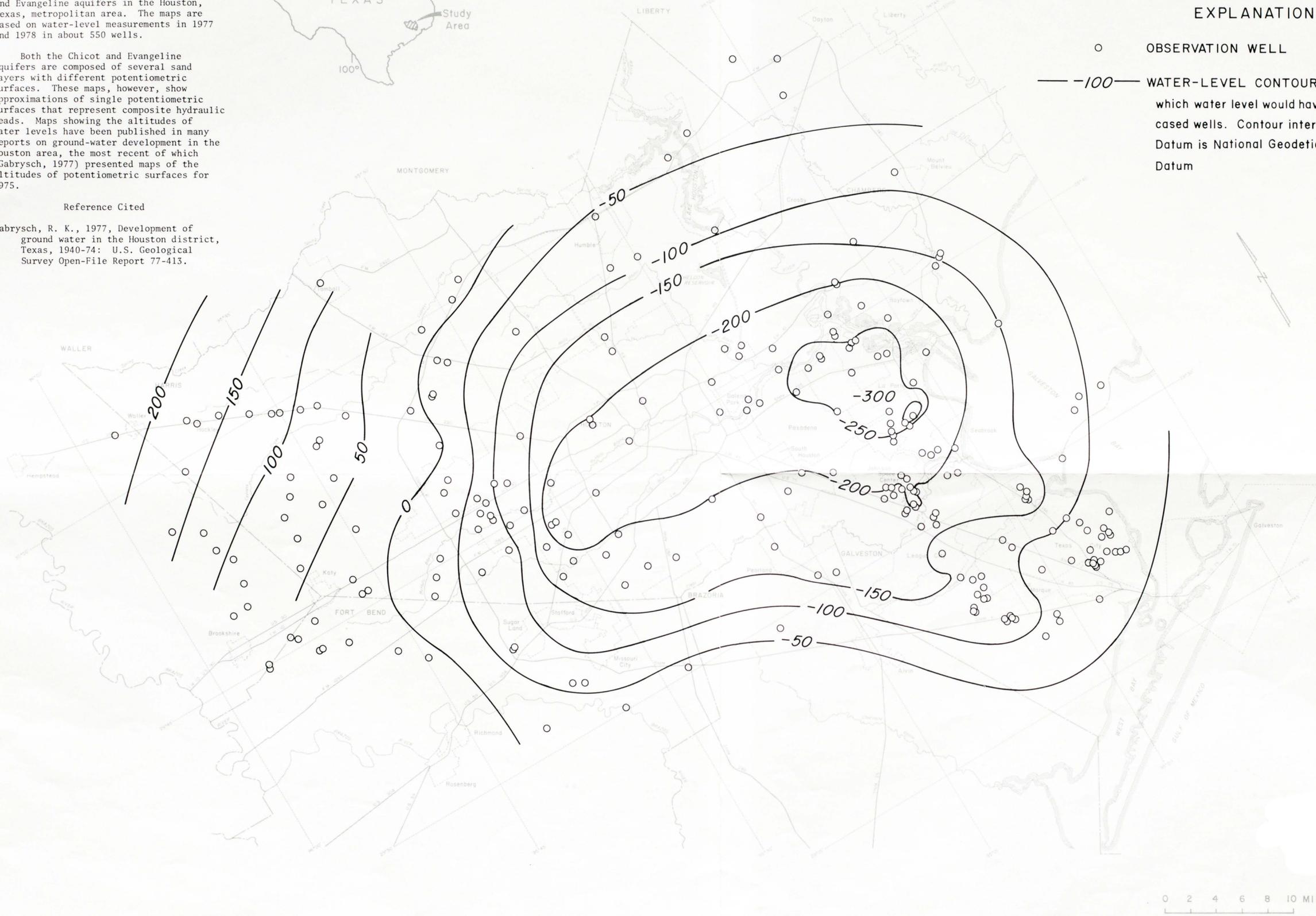


FIGURE 1.-Approximate altitude of water levels in wells in the Chicot aquifer, Spring 1977

Base from Texas General Highway Map