HYDROGEOLOGY OF THE CAMP VERDE AREA, CENTRAL ARIZONA

Marvin Glotfelty
Northern Arizona University, Flagstaff, AZ

Abstract

The area of study covers 26.5 square miles ranging from the confluence of Beaver Creek and Verde River to the north, to the confluence of West Clear Creek and the Verde River to the south. Ground water depths for 471 domestic and agricultural wells were obtained, and selected wells were field checked to insure accuracy of data. A ground water contour map was constructed from well data at a 1:24,000 scale with a 20 foot contour interval. Aquifer characteristics of the study area were obtained via pump test data. Aquifer characteristics were then plugged into a USGS 2-D computer model, which has been modified to give the best representation of the Verde aquifer. The 2-D computer program and the 1:24,000 ground water map will be useful predictive tools to prevent overdraft and poor well spacing as development of the study area leads to greater withdrawal demands.