## Albuquerque Basin--Studies in hydrogeology

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FIGURE 1—View of the Albuquerque Basin at Bernalillo, New Mexico, from the Rio Grande, across the Rio Grande graben, to the Sandia Mountains.

#### Introduction

This topical issue of New Mexico Geology contains four papers describing hydrogeologic studies of the Albuquerque Basin undertaken by New Mexico Bureau of Mines and Mineral Resources (NMB-MMR) scientists and associates. Most of the work was funded through cooperative agreements with the City of Albuquerque and the U.S. Bureau of Reclamation, with significant cost-sharing by NMBMMR. The subjects of these papers include (1) the potential for land subsidence as a consequence of falling ground-water levels in the Albuquerque area, (2) computer simulations of chemical reactions that may arise if treated effluent is injected into the aquifer system as a means of artificial recharge, (3) the ability of different aquifer zones to transmit ground water, and (4)

patterns of naturally occurring mineralization that can clog otherwise productive aquifer units.

NMBMMR published its first groundwater report in 1948. Today, NMBMMR scientists work on ground-water problems of practical significance throughout the state. The results of NMBMMR groundwater investigations are available as Groundwater Reports, Hydrologic Reports, Hydrogeologic Sheets, and Open-file Reports as well as papers in various peer-reviewed scientific journals. Much of this work has involved collaborative efforts with local, state, and federal agencies. Major projects have been undertaken in the Albuquerque, Estancia, La Jencia, Mesilla, Mimbres, Roswell, and San Juan Basins.

-William C. Haneberg

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