ANNOTATED BIBLIOGRAPHY OF THE HYDROLOGY, GEOLOGY, AND GEOTHERMAL RESEARCH OF THE JEMEZ MOUNTAINS AND VICINITY, NORTH-CENTRAL NEW MEXICO

By Cynthia G. Abeyta and Bruce M. Delaney

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DONALD PAUL HODEL, Secretary

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Dallas L. Peck, Director

For additional information
write to:

District Chief
U.S. Geological Survey
Water Resources Division
505 Marquette NW, Room 720
Albuquerque, New Mexico 87102

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ABSTRACT

The Jemez Mountains volcanic complex, located in north-central New Mexico at the intersection of the Rio Grande rift and Jemez lineament, is a potential location for geothermal energy exploration. This bibliography lists selected publications pertaining to the geology, hydrology, geochemistry, geothermometry, geophysics, ecology, and geothermal and hydrologic modeling aspects of the Jemez region. The bibliography is composed of 795 citations with annotations and subject and author indexes.

INTRODUCTION

The Jemez Mountains, a large dormant volcanic complex, are in north-central New Mexico at the intersection of the north-trending Rio Grande rift and the northeast-trending Jemez lineament (figs. 1 and 2). The region is a potential location for geothermal exploration, as indicated by several boiling pools of acid-sulfate muddy water, fumaroles, and the many hot springs in the area.

This bibliography was compiled as part of a study by the U.S. Geological Survey to evaluate potential hydrologic effects of geothermal power development in the Jemez Mountains. The U.S. Bureau of Indian Affairs and New Mexico State Engineer Office cooperated with the U.S. Geological Survey in conducting the study.

Criteria used for selecting publications were: (1) Application of geology, hydrology, geochemistry, geothermometry, geophysics, ecology, and geothermal and hydrologic modeling to the Jemez Mountains and vicinity; and (2) relative studies of similar environments or topics, for example: "Volcanic rocks as geologic guides to geothermal exploration and evaluation."

The main body of the bibliography consists of 795 citations listed alphabetically and chronologically. Each citation is followed by an annotation in the following categories:

Geology
Geothermal
Geochemistry and geothermometry
Hydrology
Ecology
Geophysics
Modeling methods and background
Modeling applications
Modeling evaluation and documentation
Bibliography
Review articles
Textbook
Collected technical articles
Administrative papers
Correspondence
Tabulated data

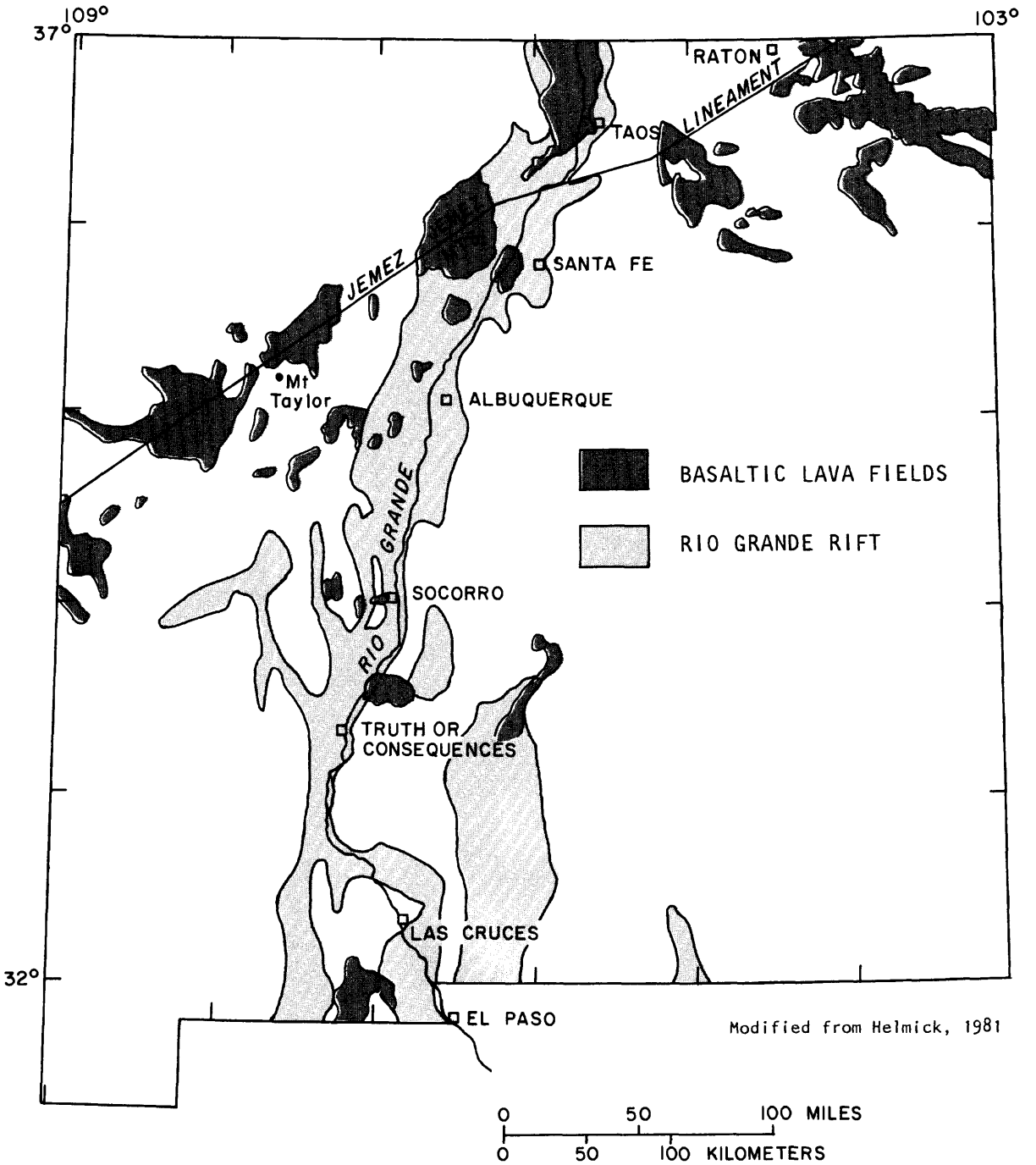

Figure 1.--Location of the Rio Grande rift and the Jemez lineament in New Mexico.

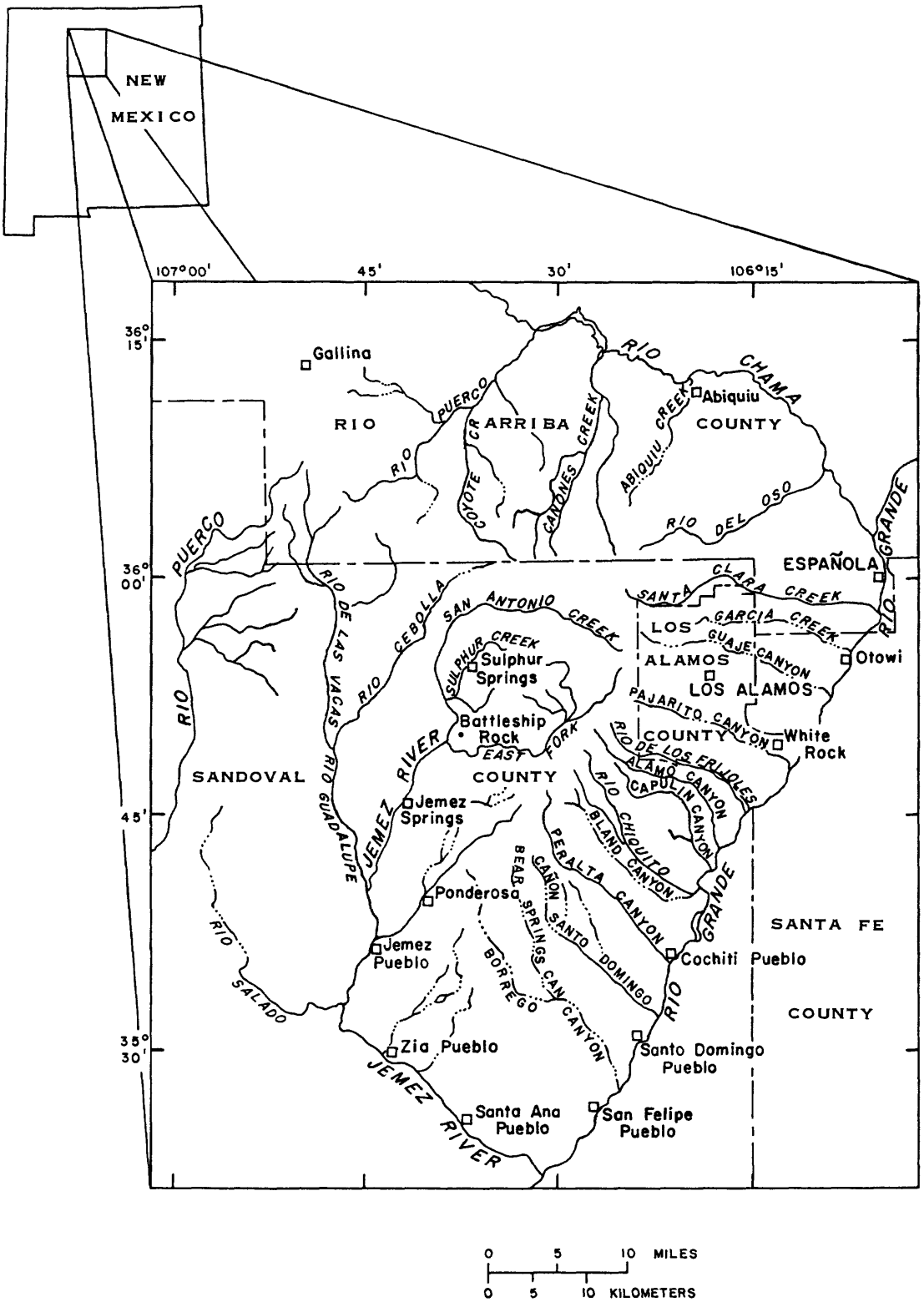

Figure 2.--Jemez Mountains study area.

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