

**Bibliography of Geologic Reports  
and Maps for Apache County, Arizona,  
South of Interstate 40  
(supersedes Arizona Geological Survey  
Open-File Report 94-20)**

by

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Arizona Geological Survey  
Open-File Report 96-16

July, 1996

**Arizona Geological Survey**  
416 W. Congress, Suite #100, Tucson, Arizona 85701

Includes 27 pages text

This report is preliminary and has not been edited  
or reviewed for conformity with Arizona Geological Survey standards



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The discovery of live oil in core samples from a geothermal test well drilled near Alpine in 1993, publicized in *Arizona Geology* and other Arizona Geological Survey publications, has led to renewed interest in oil and gas exploration in southern Apache County. In 1994, Ridgeway Petroleum announced a strike in their very first well drilled in the area. The well, near St. Johns, is a carbon dioxide and helium producer, according to company announcements. Additional wells are being drilled in that area. In July 1994 PetroSun Exploration and Production Co. announced that a wildcat gas well drilled near Concho has come in at commercial quantities and that additional wells will be drilled.

This report is intended to be a comprehensive listing of citations pertaining to the geology of the portion of Apache County that is south of Interstate 40. It is derived from AZGEOBIB, a computerized annotated bibliographic database of more than 12,000 citations on the geology of Arizona. This database has been under development for several years at the Arizona Geological Survey.

This subset on southern Apache County consists of more than 500 citations. In order to provide a geographic reference system for the master bibliography, the state has been divided into 555 areas. Figure 1 is a depiction of the areas covered by this report. Note that some areas include portions of Navajo County and some areas include portions of Apache County north of Interstate 40 (e.g., Petrified Forest area). The master database was searched for citations which had been annotated to indicate locations corresponding to those depicted in Figure 1.

The master bibliography can be searched by location keywords or subject keywords or both. As mentioned, there are 555 location keywords. There are approximately 300 subject keywords plus over 2000 stratigraphic names that can be used in searching by subject. While this bibliography was delineated by using the location keywords depicted in Figure 1 only, a smaller subset might have been constructed using combinations of location and subject keywords such as *St. Johns area* and *Stratigraphy*, for example. Contact the Arizona Geological Survey for more information concerning bibliographic searches.

A recent publication, AZGS OFR 96-6, **Physiographic area index for AZGEOBIB, v. 2.1 (including AZGS OFR 96-1 and OFR 95-2)** is designed to be used as a system to find geologic references for all locations in Arizona. AZGS OFR 96-6 consists of three parts. The first is a **physiographic area index** of the 555 location keywords used in AZGEOBIB. The second part is **AZGEOBIB, v. 2.1: A list of references on the geology of Arizona** (available separately as AZGS OFR 96-1), which is a listing of more than 12,000 citations pertaining to the geology of Arizona. The third part consists of copies of **AZGS OFR 95-2a and OFR 95-2b** which are maps showing the outlines of the 555 physiographic areas referenced in this report. OFR 95-2a has a comprehensive base map, while OFR 95-2b has a base map which shows township and range information only. Figure 1 of this publication (OFR96-16) shows a portion of OFR 95-2a. Contact the Arizona Geological Survey for ordering information.

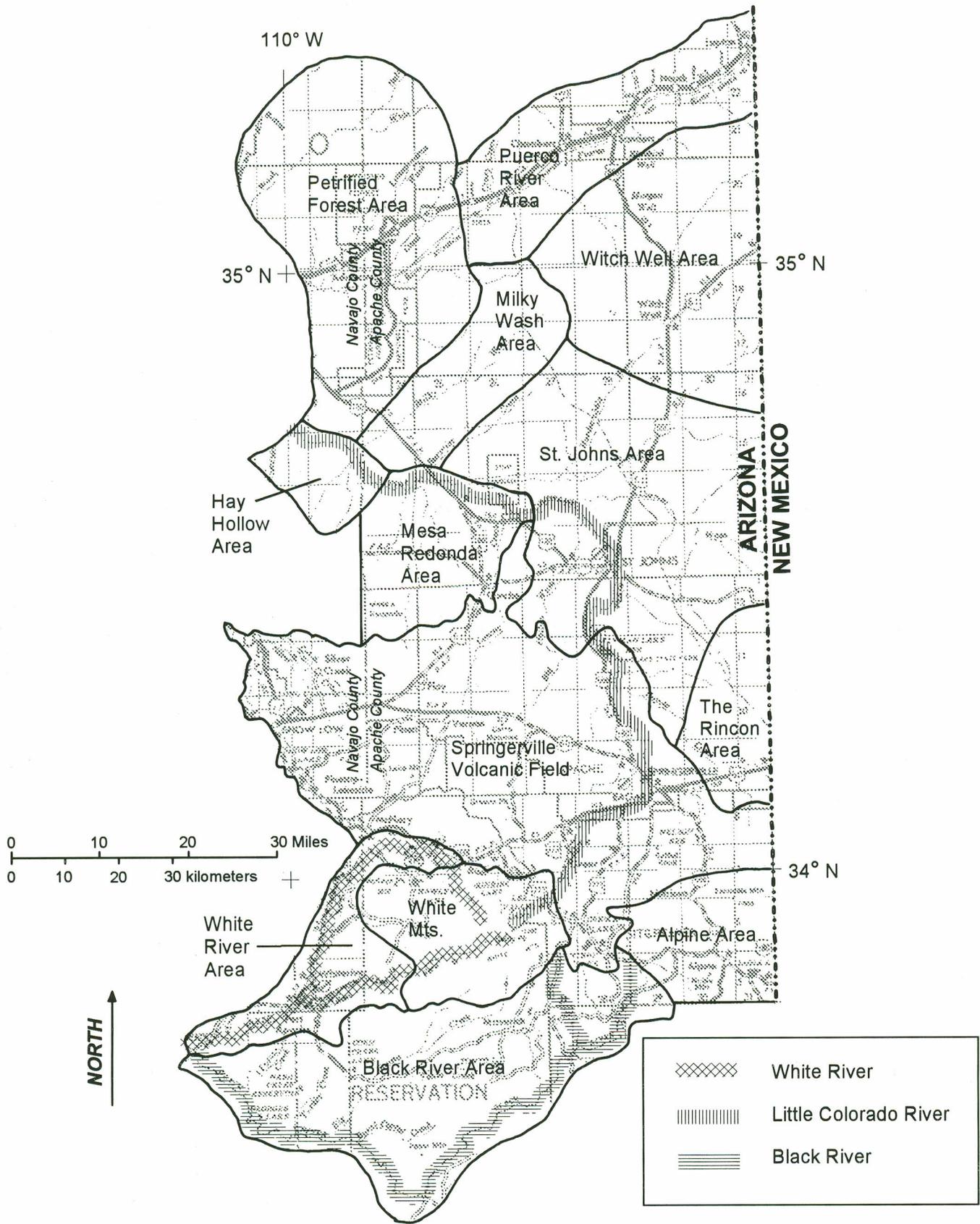


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