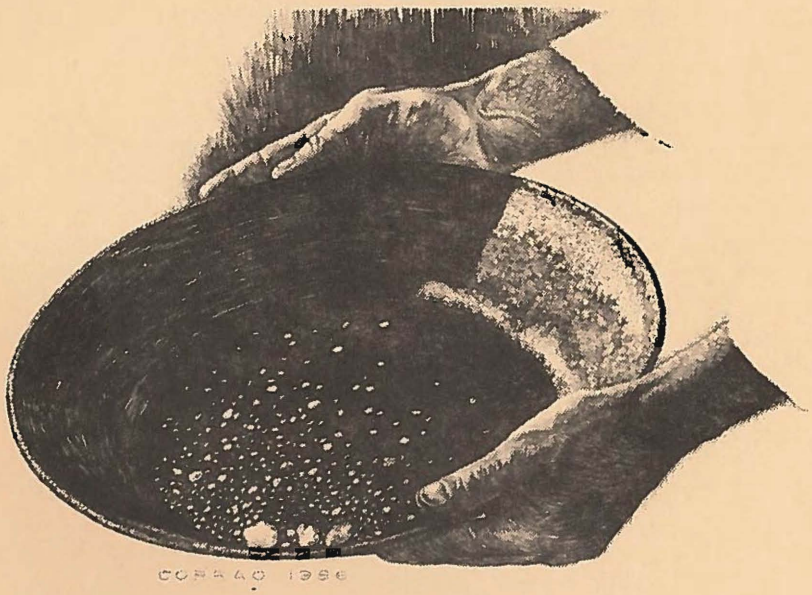
Bibliography of the Geology and Mineral Resources of Arizona

1965-1970

by J.S. Vuich and J.C. Wilt



Arizona Bureau of Mines*

Bulletin 190

1974
(reprinted 1988)

*currently the Arizona Geological Survey

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Arizona Bureau of Mines Bulletin 190

Arizona Geological Survey

The Arizona Geological Survey (AGS) was established in 1987 by Senate Bill 1102, which became effective July 1, 1988. The AGS had been part of the Arizona Bureau of Geology and Mineral Technology, which, in turn, was formerly called the Arizona Bureau of Mines.

The AGS is charged by statute to assist the wise use of lands and mineral resources in Arizona by conducting research and providing information to the legislature, government agencies, industry, and the public. The AGS is mandated to investigate, describe, and interpret the geologic setting of the State, including its mineral and energy resources, natural attributes, and natural hazards and limitations. Through research, geologic mapping, and data collection, staff members increase the understanding of geologic factors that influence the locations of metallic, nonmetallic, and mineral fuel sources in Arizona. They also enhance the understanding of geologic materials and processes that control or limit human activities in the State.

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6-88UA100/374

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INTRODUCTION

This bulletin, a supplement to Arizona Bureau of Mines Bulletin 173, presents a comprehensive listing of the literature on the geology and mineral resources of Arizona released since January, 1965, through December, 1970.

In compiling the list, the authors have used freely the several bibliographies of North American geology, issued as bulletins by the U. S. Geological Survey, and the U. S. Bureau of Mines List of Publications. In addition, many serials and irregularly issued publications have been examined and applicable articles noted.

In departure from the procedure frequently followed in the preparation of bibliographies, the authors have not restricted the listing to published items. Thus, many theses and open-file reports have been included because, even though they may not be readily available, often they represent the only source of data on a particular area or problem.

The usefulness of a bibliography is directly dependent upon the care with which the index is prepared. For this reason, considerable space has been devoted to a thoroughly cross-referenced index which is divided into several main headings that are felt to be particularly applicable to Arizona. Therefore, a short time spent in becoming familiar with the organization of the index should greatly increase the value of the bibliography to the reader.

The authors are grateful to our colleagues and staff members of the Bureau who have helped in the compilation of data or who have contributed their technical assistance in the preparation of the manuscript.

Special thanks are due Mrs. Judy Friedrichs who not only typed the printed text, but also ably assisted in the editing and proof reading.

A number of abbreviations are used in citing the references to the serial publications given in the bibliography and the following list defines these abbreviations:

AAPG Bull. — American Association of Petroleum Geologists Bulletin. Tulsa, Oklahoma.

AIME Bull.; Soc. Min. Engr. Preprint; Trans. — American Institute of Mining, Metallurgical, and Petroleum Engineers Bulletin; Society of Mining Engineers Preprint; Transactions. New York, New York.

Alberta Soc. Pet. Geol. — Alberta Society of Petroleum Geologists. Calgary, Alberta.

Am. Antiquity — American Antiquity. Society for American Archeology. Washington, D. C.

Am. Assoc. Adv. Sci. Proc. — American Association for the Advancement of Science Proceedings. Washington, D. C.

Am. Assoc. Stratig. Palynologists — American Association of Stratigraphic Palynologists.

Am. Geophys. Union Trans.; Monograph — American Geophysical Union Transactions; Monograph. Washington, D. C.

Am. Jour. Botany — American Journal of Botany. Botanical Society of America. Baltimore, Maryland.

Am. Jour. Sci. — American Journal of Science. New Haven, Connecticut.

Am. Mineral. — American Mineralogist. Mineralogical Society of America. Washington, D. C.

Am. Mus. Novitates — American Museum Novitates. American Museum of Natural History. New York, New York.

Am. Soc. Agr. Engr. Trans. — American Society of Agricultural Engineers Transactions.

Am. Soc. Civil Engr. Proc. — American Society of Civil Engineers Proceedings. New York, New York.

Am. Soc. Testing and Materials Sp. Tech. Pub. — American Society for Testing and Materials Special Technical Publication. Philadelphia, Pennsylvania.

Am. Water Works Assoc. Jour. — American Water Works Association Journal. Birmingham, Alabama.

Annali Geofisica — Annali Geofisica. Rome, Italy.

Annals. Assoc. Am. Geographers — Annals of the Association of American Geographers. Washington, D. C.

Appl. Spectroscopy — Applied Spectroscopy. Society for Applied Spectroscopy. American Institute of Physics. New York, New York.

Ariz. Acad. Sci. Jour. — Arizona Academy of Science Journal. Arizona State University. Tempe, Arizona.

Ariz. Atomic Energy Comm. — Arizona Atomic Energy Commission. Phoenix, Arizona.

Ariz. Caver — Arizona Caver. UAAC Grotto, National Speleological Society, Tucson, Arizona.

Ariz. Dept. Miner. Res. — Arizona Department of Mineral Resources. Phoenix, Arizona.

Ariz. Geol. Soc. Dig.; S. Ariz. Guidebook — Arizona Geological Society Digest; Southern Arizona Guidebook. Tucson, Arizona.

Ariz. Highways — Arizona Highways. Arizona Highway Department. Phoenix, Arizona.

Ariz. Interstate Stream Comm. Rep. — Arizona Interstate Stream Commission Report. Phoenix, Arizona.

Ariz. State Land Dept. Water Res. Rep. — Arizona State Land Department Water Resources Report. Phoenix, Arizona.

Arkiv. Zoologi — Arkiv för Zoologi. Kungliga Svenskas Vetenskaps Akademien. Stockholm, Sweden.

Assoc. Am. Geog. Annals — Association of American Geographers Annals. Washington, D. C.

Auk — Auk. American Ornithologists' Union. Ithaca, New York.

Bol. Paranaense Geografia — Boletin Paranaense de Geografia. Instituto de Geologia da Universidade do Paraná. Curitiba, Paraná, Brazil.

Brigham Young Univ. Geol. Studies; Research Rep. Dept. Geol. — Brigham Young University Geology Studies; Department of Geology Research Report. Provo, Utah.

California Univ. Pubs. Geol. Sci. — University of California Publications in Geological Sciences. Berkeley, California.

Canadian Jour. Earth Sci. — Canadian Journal of Earth Science. Ottawa, Ontario, Canada.

Canadian Mineralogist — Canadian Mineralogist. Journal of the Mineralogical Association of Canada. Ottawa, Ontario, Canada.

Carnegie Inst. Wash. Yearbook — Carnegie Institution of Washington Yearbook. Washington, D. C.

Cave Notes — Cave Notes. Cave Research Associates. Castro Valley, California.

Caves and Karst — Caves and Karst. Cave Research Associates. Castro Valley, California.

Chemie Erde — Chemie der Erde. Zeitschrift für chemische Mineralogie, Petrographie, Bodenkunde, Geochemie and Meteoritenkunde. Gustav Fischer Verlag. Jena, German Democratic Republic.

Clays and Clay Minerals — Clay and Clay Minerals. Elmsford, New York and Oxford, England.

Contr. Mineral. and Pet. — Contributions to Mineralogy and Petrology. Berlin, Germany, and New York, New York.

Copeia — Copeia. American Society of Ichthyologists and Herpetologists. Northridge, California.

Deutsch. Geol. Gesell. Zeitschr. — Zeitschrift der Deutschen Geologischen Gesellschaft. Hannover, Federal Republic of Germany.

Dissert. Abs. — Dissertation Abstracts. University Microfilms. Ann Arbor, Michigan.

Dissert. Abs. Internatl. — Dissertation Abstracts International. University Microfilms. Ann Arbor, Michigan.

Earth and Planetary Sci. Letters — Earth and Planetary Science Letters. North Holland Publishing Company. Amsterdam, Netherlands.

Ecology — Ecology. Ecological Society of America. Durham, North Carolina.

Econ. Geol. — Economic Geology. Society of Economic Geologists. Houghton, Michigan.

Elisha Mitchell Sci. Soc. Jour. — Journal of the Elisha Mitchell Scientific Society. Chapel Hill, North Carolina.

Engr. Geol. — Engineering Geology. Amsterdam, Netherlands.

Engr. Min. Jour. — Engineering and Mining Journal. McGraw-Hill Publishing Company. New York, New York.

EOS — EOS. Transactions, American Geophysical Union. Washington, D. C.

Four Corners Geol. Soc. — Four Corners Geological Society. Durango, Colorado.

Frontiers — Frontiers. A magazine of Natural History. Academy of Natural Sciences of Philadelphia. Philadelphia, Pennsylvania.

Geochim. et Cosmochim. Acta — Geochimica et Cosmochimica Acta. Journal of the Geochemical Society and the Meteoritical Society. Pergamon Press. Oxford, England.

Geog. Rev. — Geographical Review. American Geographical Society of New York. New York, New York.

Geol. Soc. Am. Bull.; Mem.; Sp. Paper — Geological Society of America Bulletin; Memoir; Special Paper. Boulder, Colorado.

Geol. Soc. Am. Engr. Geol. Case Hist. — Geological Society of America Engineering Geology Case Histories. Boulder, Colorado.

Geol. Sur. Canada Econ. Geol. Rep. — Geological Survey of Canada Economic Geology Report. Ottawa, Ontario, Canada.

Geophys. Jour. — Geophysical Journal of the Royal Astronomical Society. Oxford, England.

Geophysics — Geophysics. Society of Exploration Geophysicists. Tulsa, Oklahoma.

Grand Canyon Natural Hist. Assoc. — Grand Canyon Natural History Association. Grand Canyon, Arizona.

Ground Water — Ground Water. National Water Well Association. Urbana, Illinois.

IAEA-ICSU — International Atomic Energy Agency. Vienna, Austria.

Icarus — Icarus. International Journal of Solar System Studies. New York, New York and London, England.

IEEE Trans. Geosci. Electronics — Institute of Electrical and Electronics Engineers Transactions on Geoscience Electronics. New York, New York.

Independent Pet. Monthly — Independent Petroleum Monthly. Independent Petroleum Association of America. Tulsa, Oklahoma.

Inst. of Min. and Met. Trans. — Institute of Mining and Metallurgy Transactions. London, England.

Intermountain Assoc. Pet. Geol. Guidebook — Intermountain Association of Petroleum Geologists, Guidebook. Salt Lake City, Utah.

Internatl. Assoc. Hydrogeologists Mem. — International Association of Hydrogeologists Memior. Turkish National Commission, Ankara, Turkey.

Internatl. Assoc. Quaternary Research (INQUA) — International Association of Quaternary Research. Yale University Press. New Haven, Connecticut.

Internatl. Assoc. Sci. Hydrol. Pub. (IASH-UNESCO) — International Association of Scientific Hydrology Publication. Gentbrugge, Belgium.

Internatl. Geol. Cong. — International Geologic Congress. Copenhagen, Denmark.

Interscience Pub. — Interscience Publications. London and New York.

Interstate Oil Compact Comm. Bull. — Interstate Oil Compact Commission Bulletin. Oklahoma City, Oklahoma.

Jour. Geol. — Journal of Geology. University of Chicago Press. Chicago, Illinois.

Jour. Geol. Educ. — Journal of Geological Education. National Association of Geology Teachers. Washington, D. C.

Jour. Geomag. Geoelect. — Journal of Geomagnetism and Geoelectricity. Tokyo, Japan.

Jour. Geophys. Research — Journal of Geophysical Research. American Geophysical Union. Washington, D. C.

Jour. Hydro. — Journal of Hydrology. Amsterdam, Netherlands.

Jour. Iron Steel Inst. — Journal of the Iron and Steel Institute. London, England.

Jour. Mammalogy — Journal of Mammalogy. American Society of Mammalogists. Lawrence, Kansas.

Jour. Paleo. — Journal of Paleontology. Society of Economic Paleontologists and Mineralogists. Tulsa, Oklahoma.

Jour. Sed. Petrol. — Journal of Sedimentary Petrology. Society of Economic Paleontologists and Mineralogists. Tulsa, Oklahoma.

Jour. of the West — Journal of the West. Los Angeles, California.

Kansas Geol. Survey Bull.; Computer Contr. — Kansas Geological Survey Bulletin; Computer Contribution. Lawrence, Kansas.

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