UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

URANIUM REFERENCES INDEX
FOR THE NAVAJO INDIAN RESERVATION
ARIZONA, NEW MEXICO, AND UTAH

by
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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

February, 1982
Introduction

The references which are listed in this document represent the readily available literature about uranium resources on or adjacent to the Navajo Indian Reservation. They were selected during the developmental phase of the Navajo Resource Information System (NRIS). The system contains a set of computerized data bases addressing various resource categories. The system was developed by the U.S. Geological Survey in coordination with the Minerals Department, Navajo Nation. Funding support was provided by the Bureau of Indian Affairs.

Literature is the foundation of resource assessment and the absence of such a compilation for the Navajo Nation prompted the development of a reference data base entitled "nref," which consists of over 1300 records. The following reference list of approximately 400 references was selected from those citations which contain "uranium" in a keyword list attached to each citation. Some literature on the western half of the Grants Mineral Belt has been included. References to general literature on uranium may also be present.

The main attempt was to list most of the literature published in the 1960's and 1970's for areas in, or adjacent to, the Navajo Reservation. References published prior to this were included only if readily available or if they seemed to represent areas or topics not covered in later publications. It is hoped that most of the historical literature not given within this list will be found in the bibliographies of the papers cited.

The areas and topics of interest to the Navajo Nation are identical to a large amount of the historical geologic work conducted by others on the Navajo Reservation. The index which follows was extracted from the
first attempted compilation of this large body of work. Regrettably, some important works might have been missed. Readers of this document are encouraged to inform the Minerals Department, Navajo Nation of any omissions or errors. Copies of reports, reprints, etc., applicable to the Navajo Reservation would be appreciated as well. Please send to: Minerals Department, P.O. Box 146, Window Rock, AZ 86515.

**Rules used in the Reference List**

Each reference is composed of author, year, title, publishing agency, place of publication and collation, in that order, as follows:

**Author**—may be editor(s), compiler(s), or multiple authors. In the latter case, articles with more than three authors will be given with "et al." following the initial author's name. In most cases, first and middle names are abbreviated.

**Year**—the year of publication.

**Title**—may be of a book, an article in a guidebook, a compilation, or an article in a journal publication. Secondary titles which follow the publishing agency can be the name of a compilation of papers. Editors of compilations may be given as well. Organizational names are given before the secondary titles of memoirs, guidebooks, etc.

**Publishing agency**—may be a publishing house, a governmental agency (federal or state), or professional or technical journal. The type of publication (memoir, bulletin, guidebook), the editor, or field conference number will also be given when appropriate.
Collation--volume and number of a serial publication and inclusive pagination will be given. Total number of pages will be given, if available, for books. If the reference is to a selected part of a publication, this will be indicated by page intervals. If pages were not counted or publication is unpaginated, [unpaginated] will appear.

**Abbreviation Standards**

International abbreviation standards prepared by the National Clearinghouse for Periodic Title Word Abbreviations Service, Ohio State University, have been used in most cases. This has reduced the length of most citations. However, to prevent possible misinterpretations, two lists of abbreviations are given. The first, located in appendix A, gives general abbreviations for one or two words. The second list, located in appendix B, gives abbreviations for organizations and the full title for which they stand.

**Acknowledgments**

This compilation was completed with the assistance of the staff of the Minerals Department, Navajo Nation at Window Rock.


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### Appendix A

<table>
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Appendix B

The following list* gives abbreviations for organizations, journals, etc. which have been used in the bibliographic data base. Additional items which may follow the initial entry are given in parentheses.

AIME--American Institute of Mining, Metallurgical, and Petroleum Engineers (Ann. Meet.--Annual Meeting; Trans.--Transactions)
Am. Geol.--American Geology
Am. J. Sci.--American Journal of Science
Am. Mineral.--American Mineralogist
Ariz. Acad. Sci. J.--Arizona Academy of Science Journal
Ariz. Geol. Soc. Dig.--Arizona Geological Society Digest
Bendix Field Eng. Corp. (for DOE)--Bendix Field Engineering Corporation (for Department of Energy)
Brigham Young Univ. Geol. Stud.--Brigham Young University Geology Studies
Calif. Oil World--California Oil World
Chem. Geol.--Chemical Geology
Contrib. Mineral. Petrol.--Contributions to Mineralogy and Petrology
Counc. Energy Resour. Tribes--Council of Energy Resources Tribes

*note: This list is applicable for the full reference database.
Cushman Found. Foraminiferal Res. Contrib.--Cushman Foundation for Foraminiferal Research Contribution


Diss. Abstr. Int.--Dissertations Abstract International


Econ. Geol.--Economic Geology

Elect. Power Res. Inst.--Electric Power Research Institute

Eng. Mining J.--Engineering and Mining Journal

EOS (Am. Geophys. Union Trans.)--EOS (American Geophysical Union Transactions)

Four Corners Geol. Soc.--Four Corners Geological Society (Field Conf.--Field Conference; Mem.--Memoir)


Geol.--Geology (Geol. Soc. Am.)


Intermt. Assoc. Pet. Geol.--Intermountain Association of Petroleum Geologists (Field Conf.--Field Conference; Guideb.--Guidebook; Symp.--Symposium)

Int. Assoc. Hydro!. Pub.--International Association of Hydrologists Publication


IAEA--International Atomic Energy Agency

J. Geochem. Expl.--Journal of Geochemical Exploration


J. Less Common Metals--Journal of Less Common Metals

J. Paleontol.--Journal of Paleontology

J. Soil Water Conserv.--Journal of Soil and Water Conservation
Miner. Deposita--Mineralium Deposita
Min. Congr. J.--Mining Congress Journal
Min. Mag.--Mining Magazine
Min. J.--Mining Journal (London)
Mt. Geol.--(The) Mountain Geologist
N.M. Acad. Sci. Bull.--New Mexico Academy of Science Bulletin
N.M. Geol.--New Mexico Geology
N.M. Geol. Soc.--New Mexico Geological Society (Guideb.--Guidebook; Spec. Pub.--Special Publication)
N.M. Univ. Pub. Geol.--University of New Mexico Publication on Geology
N.M. Univ. Bus. Circ.--University of New Mexico Business Circular
Oil Gas J.--Oil and Gas Journal
Pan-Am. Geol.--Pan-American Geologist
Rocky Mt. Assoc. Geol. Guideb.--Rocky Mountain Association of Geologists Guidebook (Denver)
Sci.--Science
Soc. Econ. Paleontol. Mineral.,--Society of Economic Paleontologists and Mineralogists (Rocky Mtn. Sect.--Rocky Mountain Section; Spec. Publ.--Special Publication)
Tex. Bur. Econ. Geol.--Texas Bureau of Economic Geology

Utah Geol.--Utah Geology
Utah Geol. Mineral. Surv.--Utah Geological and Mineralogical Survey
(Ubull.-Bulletin; Rep. Invest.--Report of Investigation; Spec. Stud.--Special Study; Circ.--Circular; Guideb.--Guidebook)
Utah Geol. Soc.--Utah Geological Society (Guideb.--Guidebook)

Utah Univ. Press--University of Utah Press

USAEC--United States Atomic Energy Commission (Guideb.--Guidebook; GJO--Grand Junction Office; RMO--Report; RME-Report)

U.S. Bur. Indian Aff.--United States Bureau of Indian Affairs

U.S. Bur. Reclam.--United States Bureau of Reclamation


U.S. NASA Spec. Pub.--United States National Air and Space Administration Special Publication


West. Oil Rep.--Western Oil Reporter

Wyo. Univ. Contr. Geol.--University of Wyoming Contributions to Geology