

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STRATIGRAPHIC, STRUCTURAL, AND TECTONIC 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
and stratigraphic nomenclature. Any use
of trade names is for descriptive
purposes only and does not imply
endorsement by the USGS.

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Introduction

The references which are listed in this document represent the readily available literature about stratigraphic, structural, and tectonic features 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 550 references was selected from those citations which contain one of the following in a keyword list attached to each citation: stratigraphy, structure, tectonics. References to general literature on these topics may be present. While the principal compilation effort was directed at literature addressing resources, substantial coverage is also present on the topics covered here.

The main attempt was to include in the data base 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. 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 Periodical 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

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Appendix A

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| Abstract | Abstr. | Mineralogist | Mine |
| Academy | Acad. | Miscellaneous | Misc |
| Administration | Ad. | Mineralogy | Mineral. |
| American | Am. | Mining | Min. |
| Annual | Ann. | Museum | Mus. |
| Appendix | Append. | New Mexico | N.M. |
| Arizona | Ariz. | Number | No. |
| Association | Assoc. | Paper | Pap. |
| Bulletin | Bull. | Part | Pt. |
| Bureau | Bur. | Paleontology | Paleontol. |
| Doctoral | Ph.D. | Petroleum | Pet. |
| Circular | Circ. | Petrology | Petrol. |
| Congress | Congr. | Preliminary | Prelim. |
| Commission | Comm. | Proceedings | Proc. |
| Department | Dep. | Professional | Prof. |
| Dissertation | Dissert. | Publication | Pub. |
| Economic | Econ. | Report | Rep. |
| Engineering | Eng. | Radioactive | Radioact. |
| Geological | Geol. | Research | Res. |
| Geologists | Geol. | Resources | Resour. |
| Geophysical | Geophys. | Section | Sect. |
| Guidebook | Guideb. | Series | Ser. |
| History | Hist. | Society | Soc. |
| Hydrology | Hydrol. | Station | Stn. |
| Intermountain | Intermtn. | Studies | Stud. |
| International | Int. | Special | Spec. |
| Investigations | Invest. | Survey | Surv. |
| Journal | J. | Symposium | Symp. |
| Meeting | Meet. | United States | U.S. |
| Memoir | Mem. | University | Univ. |
| Mineral | Miner. | Vertebrate | Vertebr. |
| | | Washington | Wash. |

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)
- Agric. Exp. Stat. Res. Rep.--Agriculture Experimental Station Research Report
- Am. Assoc. Pet. Geol.--American Association of Petroleum Geologists (Ann. Meet.--Annual Meeting; Bull.--Bulletin; Mem.--Memoir; Repr. Ser.--Reprint Series; Rocky Mt. Sect., Ann. Meet.--Rocky Mountain Section, Annual Meeting; Rocky Mt. Sect., Geol. Rec.--Rocky Mountain Section, Geological Record; Rocky Mt. Sect., Guideb.--Rocky Mountain Section, Guidebook; Symp.--Symposium)
- Am. Geol.--American Geology
- Am. J. Sci.--American Journal of Science
- Am. Mineral.--American Mineralogist
- Am. Mus. Nat. Hist. Bull.--American Museum of Natural History Bulletin (New York)
- Ariz. Acad. Sci. J.--Arizona Academy of Science Journal
- Ariz.-Nev. Acad. Sci. J.--Arizona-Nevada Academy of Science Journal
- Ariz. Bur. Geol. Miner. Tech.--Arizona Bureau of Geology and Mineral Technology
- Ariz. Bur. Mines--Arizona Bureau of Mines (Bull.--Bulletin; Circ.--Circular)
- Ariz. Geol. Soc. Dig.--Arizona Geological Society Digest
- Ariz. Oil & Gas Conserv. Comm. --Arizona Oil and Gas Conservation Commission (Geol. Rep.--Geological Report; Spec. Pub.--Special Publication)
- Bendix Field Eng. Corp. (for DOE)--Bendix Field Engineering Corporation (for Department of Energy)
- Bot. Soc. Am. Guideb.--Botanical Society of America Guidebook
- Brigham Young Univ. Geol. Stud.--Brigham Young University Geology Studies
- Calif. Oil World--California Oil World
- Chem. Geol.--Chemical Geology
- Colo. Geol. Surv. Resour. Ser.--Colorado Geological Survey Resource Series
- 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.

Counc. Energy Resour. Tribes--Council of Energy Resources Tribes
 Cushman Found. Foraminiferal Res. Contrib.--Cushman Foundation for
 Foraminiferal Research Contribution
 Dtsch. Gemmol. Ges. Zeit.--Deutsche Gemmologische Gesellschaft Zeitschrift
 Diss. Abstr. Int.--Dissertations Abstract International
 Earth Planet. Sci. Letter--Earth and Planetary Science Letters
 Earth Sci. Bull.--Earth Science Bulletin (Wyoming Geological Association)
 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)
 Geochim. Cosmochim. Acta--Geochimica et Cosmochimica Acta
 Geol. Soc. Am.--Geological Society of America (Abstr.--Abstracts; Bull--
 Bulletin; Mem.--Memoir; Spec. Pap.--Special Paper;
 Rocky Mt. Sect. Abstr.--Rocky Mountain Section Abstracts;
 Rocky Mt. Sect. Ann. Meet.-- Rocky Mountain Section
 Annual Meeting; Rocky Mt. Sect. Guideb.--Rocky Mountain
 Section Guidebook)
 Geol. Surv. Can. Pap.--Geological Survey of Canada Paper
 Inst. Min. Met., London--Institution of Mining and Metallurgy, London
 Intermt. Assoc. Pet. Geol.--Intermountain Association of Petroleum Geol-
 ogists (Field Conf.--Field Conference; Guideb.--Guidebook;
 Symp.-Symposium)
 Int. Assoc. Hydrol. Pub.--International Association of Hydrologists
 Publication
 Int. Assoc. Pet. Geol. Symp.--International Association of Petroleum
 Geologists Symposium
 Int. J. Rock Mech. Min. Sci.--International Journal of Rock Mechanics and
 Mining Sciences
 IAEA--Internation Atomic Energy Agency
 J. Geochem. Expl.--Journal of Geochemical Exploration
 J. Geophys. Res.--Journal of Geophysical Research
 J. Less Common Metals--Journal of Less Common Metals
 J. Paleontol.--Journal of Paleontology

J. Sed. Pet.--Journal of Sedimentary Petrology
 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)
 Mus. North. Ariz. Bull.--Museum of Northern Arizona Bulletin
 Mt. Geol.--(The) Mountain Geologist
 Nev. Bur. Mines Geol. Rep.--Nevada Bureau of Mines and Geology Report
 N.M. Acad. Sci. Bull.--New Mexico Academy of Science Bulletin
 N.M. Bur. Mines Miner. Resour.--New Mexico Bureau of Mines and
 Mineral Resources (Ann. Rep.--Annual Report; Bull.--
 Bulletin; Circ.--Circular; Mem.--Memoir; Open-File Rep.--
 Open-File Report; Prog. Rep.--Progress Report)
 N.M. Geol.--New Mexico Geology
 N.M. Geol. Soc.--New Mexico Geological Society (Guideb.--Guidebook;
 Spec. Pub.--Special Publication)
 N.M. State Eng. Tech. Rep.--New Mexico State Engineer Technical Report
 N.M. Univ. Pub. Geol.-- University of New Mexico Publication on Geology
 N.M. Univ. Bus. Circ.-- University of New Mexico Business Circular
 N.M. Water Resour. Res. Inst. Rep.--New Mexico Water Resources Research
 Institute Report
 Off. Arid Lands Stud., Univ. Ariz.--Office of Arid Lands Study, University
 of Arizona
 Oil Gas J.--Oil and Gas Journal
 Pan-Am. Geol.--Pan-American Geologist
 Pet. Eng. Int.--Petroleum Engineer International
 Rocky Mt. Assoc. Geol. Guideb. --Rocky Mountain Association of Geologists
 Guidebook (Denver)
 Sask. Geol. Soc. Spec. Pub.--Saskatchewan Geological Society Special
 Publication
 Sci.--Science
 Seismol. Soc. Am. Bull.--Seismology Society of America Bulletin
 Soc. Econ. Paleontol. Mineral., --Society of Economic Paleontologists
 and Mineralogists (Rocky Mtn. Sect.--Rocky Mountain
 Section; Spec. Publ.-- Special Publication)

- Soc. Pet. Eng.--Society of Petroleum Engineers
- Soc. Verteb. Paleon. Field Conf.--Society of Vertebrate Paleontology Field Conference
- South. Calif. Paleontol. Soc. Bull.--Southern California Paleontological Society Bulletin
- Tex. Bur. Econ. Geol.--Texas Bureau of Economic Geology
- Utah Geol.--Utah Geology
- Utah Geol. Mineral. Surv.--Utah Geological and Mineralogical Survey
(Bull.--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
- U.N. Int. Conf. Peaceful Uses At. Energy--United Nations International Conference on the Peaceful Uses of Atomic Energy
- 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. Mines--United States Bureau of Mines (Inf. Circ.--Information Circular; Tech. Prog. Rep.--Technical Progress Report)
- U.S. Bur. Reclam.--United States Bureau of Reclamation
- U.S. ERDA GJO--United States Energy Research and Development Agency, Grand Junction Office (Final Rep.--Final Report)
- U.S. Environ. Prot. Agency Res. Rep. Ser.--United States Environmental Protection Agency Research Reporting Series
- U.S. Dep. Agric. Soil Conserv. Serv.--United State Department of Agriculture Soil Conservation Service.
- U.S. Dep. Inter., Off. Surf. Min. Reclam. Enforcement--United States Department of Interior, Office of Surface Mining Reclamation Enforcement
- U.S. Geol. Surv.--United States Geological Survey (Ann. Rep.--Annual Report; Bull.--Bulletin; Circ.--Circular; Coal Invest. Map--Coal Investigations Map; Geol. Quad. Map--Geologic Quadrangle Map; Geophys. Inv. Map--Geophysical Investigation Map; Miner. Inv. Field Stud. Map--Mineral Investigations Field Studies Map; Misc. Geol. Inv. Map--Miscellaneous Geologic Investigations Map; Oil and Gas Prelim. Invest. Map--Oil and Gas Preliminary Investigation Map; Open-File Rep.--Open-File Report; Prof. Pap.--Professional Paper; TEI Rep.--Trace Element Investigation Report; TEM--Trace Element Memorandum; Water-Supply Pap.--Water-Supply Paper)
- U.S. NASA Spec. Pub.--United State National Air and Space Administration Special Publication
- U.S. Senate Comm. Inter. Insular Aff.--U.S. Senate Committee on Interior and Insular Affairs.
- Wash. Acad. Sci. J.--Washington Academy of Science Journal

West. Oil Rep.--Western Oil Reporter

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

Wyo. Geol. Assoc. Guideb.--Wyoming Geological Association Guidebook