Bulletin 109



New Mexico Bureau of Mines & Mineral Resources

A DIVISION OF NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Bibliography of New Mexico geology and mineral technology 1976–1980

by Dana M. Adkins-Heljeson and Candace L. Holts

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY Laurence H. Lattman, President

NEW MEXICO BUREAU OF MINES & MINERAL RESOURCES

Frank F Kottlowski Director George S. Austin, Deputy Director

BOARD OF REGENTS

Ex Officio

Toney Anava, Governor of New Mexico Leonard DeLayo, Superintendent of Public Instruction

Appointed

Judy Floyd, President, 1977-1987, Las Cruces William G. Abbott, Secretary-Treasurer, 1961-1985, Hobbs Donald W. Morris, 1983-1989, Los Alamos Robert Lee Sanchez, 1983-1989, Albuquerque Steve Torres, 1967-1985, Socorro

BUREAU STAFF

Full Time

ORIN J. ANDERSON, Geologist RUBEN ARCHULETA, Technician I BRIAN W. ARKELL, Coal Geologist At BACA Crafts Technician STEVE BLODGETT Associate Editor NANCY A BLOUNT Coal Lab Technician LYNN A. BRANDVOLD, Senior Chemist JAMES C. BRANNAN, Drafter RON BROADHEAD, Petroleum Geologist FRANK CAMPBELL, Coal Geologist RICHARD CHAMBERLIN, Economic Geologist CHARLES E. CHAPIN, Senior Geologist JEANETTE CHAVEZ, Admin. Secretary 1 RUBEN A. CRESPIN, Laboratory Technician II LOIS M. DEVLIN. Director, Bus./Pub. Office

JAMES M. BARKER, Industrial Minerals Geologist ROBERT A. BIEBERMAN. Senior Petrol. Geologist BRENDA R. BROADWELL, Assoc. Lab Geoscientist RICHARD R. CHAVEZ, Assistant Head, Petroleum NANETTE DYNAN, Staff Secretary

> CHRISTINA L. BALK. NMT RUSSELL E CLEMONS NMSU WILLIAM A. COBBAN, USGS AUREAL T. CROSS, Mich. St. Univ. JOHN E. CUNNINGHAM, WNMU WOLFGANG ELSTON, UNM MARIAN GALUSHA, Amer. Mus. Nat. Hist. JEFFREY A. GRAMBLING, UNM JOSEPH HARTMAN, Univ. Minn.

> > MARGARET BARROLL JAMES T. BOYLE LEE BROUILLARD STEVEN M. CATHER GERRY W. CLARKSON

ROBERT W EVELETH Mining Engineer K. BABETTE FARIS. X-ray Lab Manager ROUSSEAU H. FLOWER, Sr. Emeritus Paleontologist MICHAEL I HARRIS Metallurgist ZANA HARVEY, Clerk-Typist JOHN W. HAWLEY. Senior Env. Geologist CAROL A HIELLMING Editorial Secretary GARY D. JOHNPEER. Engineering Geologist ANNABELLE LOPEZ, Staff Secretary DAVID W. LOVE, Environmental Geologist JANE A. CALVERT LOVE, Assistant Editor WESS MAULDIN. Driller VIDGINIA MCI EMORE Geologist LYNNE McNeil Staff Secretary NORMA J. MEEKS, Department Secretary DAVID MENZIE, Manager, Inf. Ctr. TERESA A. MUELLER, Sci. Illustrator I DIANE MURRAY, Geologist

Research Associates

ALONZO D. JACKA Texas Tech Univ. DAVID R JOHNSON NMT WILLIAM E. KING, NMSU EDWIN R. LANDIS, USGS DAVID V. LEMONE, UTEP A. BYRON LEONARD, Kansas Univ. JOHN R. MACMILLAN, NMT HOWARD B NICKELSON LISGS

ROBERT M. NORTH Mineralogist

KEITH O'BRIEN Hydrologist

Graduate Students

TED EGGLESTON CHARLES FERGUSON GRANT GOODYEAR ADRIAN HUNT LAURA KEDZIE

Plus about 50 undergraduate assistants

GLENN R OSBURN Francomic Geologist JOANNE CIMA OSBURN, Coal Geologist KATHRYN E. PARKER, Drafter BARBARA R. POPP, Biotechnologist MARSHALL A. REITER, Senior Geophysicist JACQUES R. RENAULT, Senior Geologist JAMES M. ROBERTSON, Mining Geologist GRETCHEN H. POVRAL Coal Geologist DEBORAH A SHAW Assistant Editor WILLIAM J. STONE, Hydrogeologist SAMUEL THOMPSON III, Senior Petrol. Geologist JUDY M. VAIZA, Executive Secretary MANUEL J. VASQUES, Mechanic ROBERT H WERER Senior Geologist LINDA L. WELLS-McCOWAN, Drafter DONALD WOLBERG, Vertebrate Paleontologist MICHAEL W. WOOLDRIDGE, Chief Sci. Illustrator LISA ZANGARA, Receptionist JIRI ZIDEK, Chief Editor-Geologist

LLOYD C. PRAY, Univ. Wisc ALLAN R. SANFORD. NMT JOHN H. SCHILLING, Nev. Bur. Mines & Geology WILLIAM R. SEAGER. NMSU JAMES E. SORAUF, SUNY Binghamton RICHARD H. TEDFORD, Amer. Mus. Nat. Hist. JORGE C. TOVAR R., Petroleos Mexicanos LEE A. WOODWARD. UNM

> RICHARD P. LOZINSKY IFFEREY MINIER STEWART SMITH STEPHEN TURNBULL

Published by Authority of State of New Mexico, NMSA 1953 Sec. 63-1-4 Printed by University of New Mexico Printing Plant, July 1984

Preface

Bulletin 109, the *Bibliography of New Mexico geology and mineral technology* 1976–1980, contains over 2,900 references and cross references in the geoscience field. This book is the latest in a series of bibliographies previously issued as Bulletins 43, 52, 74, 90, 99, 106, and 108.

Both published and unpublished materials are cited. Most items are available either in libraries or from the issuing organizations. Citations referring to areas outside New Mexico are included if the cited work is directly applicable to New Mexico geoscience (for example, the Trans-Pecos region of west Texas). Highly generalized or nontechnical articles are not included. Several pre-1976 articles are included because they were inadvertently omitted from earlier bibliographies.

As is always the case, we would like to encourage the reader to bring any omissions to our attention for the next bibliography.

The bibliography comprises the following three sections:

Publications and abbreviations list—Many of the publications listed in this section may be found in the Speare Memorial Library at the New Mexico Institute of Mining and Technology in Socorro. Other publications can be located at the libraries of the University of New Mexico (Albuquerque), New Mexico State University (Las Cruces), and Los Alamos Scientific Laboratory (Los Alamos).

Citation section—Each citation is listed alphabetically by senior author. All publications and papers by a given author are listed chronologically. If an author published more than one paper in a single year, each paper is identified by a letter following the year. Coauthors are arranged alphabetically under the senior author.

Index—Most citations are listed in the index under at least two headings: geographic location and subject matter. Many of the citations have been indexed under three or more headings and subheadings.

ACKNOWLEDGMENTS—We thank the following previous bibliographers at the New Mexico Bureau of Mines and Mineral Resources for their contributions: John R. Wright, Rosemary Walsh, and Colleen Bryant. We also thank these employees of the New Mexico Bureau of Mines: Jane A. Calvert, Assistant Editor; Kathy Eden, Editorial Technician; and Cindy Moore, student proofreader.

Dana M. Adkins-Heljeson
Bibliographer
New Mexico Bureau of Mines and
Mineral Resources

Socorro, New Mexico, and Menlo Park, California December 1981 Candace L. Holts
Science Editor
Addison-Wesley Publishing Co.



Publications and abbreviations

Air Force Weapons Lab., Kirtland Air Force Base: Air Force Weapons Laboratory, Kirtland Air Force Base. Albuquerque, New Mexico

Am. Assoc. Petroleum Geologists, Bull.; Studies in Geology: American Association of Petroleum Geologists, Bulletin; Studies in Geology. Tulsa, Oklahoma

Am. City and County: American City and County

Am. Geophys. Union, Geophys. Mon.; (EOS), Trans.: American Geophysical Union, Geophysical Monograph; (EOS), Transactions. Washington, D.C.

Am. Inst. Mining and Engineering: American Institute of Mining and Engineering

Am. Inst. Mining, Metall., and Petroleum Engineers, Soc. Petroleum Engineers: American Institute of Mining, Metallurgical, and Petroleum Engineers, Society of Petroleum Engineers. New York, New York

Am. Jour. Sci.: American Journal of Science, Yale University. New Haven, Connecticut

Am. Mineralogist: American Mineralogist, Journal of the Mineralogical Society of America. Washington, D.C.

Am. Museum Natural History; Am. Museum Novitates: American Museum of Natural History; American Museum Novitates. New York, New York

Am. Quaternary Assoc., Abs., Bienn. Mtg.: American Quaternary Association, Abstracts, Biennial Meeting

Am. Soc. Civil Engineers, Jour., Geotech. Eng. Div.: American Society of Civil Engineers, Journal, Geotechnical Engineering Division. New York, New York

Am. Soc. Photogrammetry, Proc.: American Society of Photogrammetry, Proceedings. Falls Church, Virginia

Am. Water Works Assoc., Jour.: American Water Works Association, Journal. Denver, Colorado

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

Arizona Geol. Soc., Digest: Arizona Geological Society, Digest. Tucson, Arizona

Arizona-Nevada Acad. Sci., Jour.: Arizona-Nevada Academy of Science, Journal

Assoc. Eng. Geologists, Bull.: Association of Engineering Geologists, Bulletin. Dallas, Texas

Baylor Geol. Studies, Bull.: Baylor Geological Studies, Bulletin, Baylor University. Waco, Texas

Brigham Young Univ., Geology Studies: Brigham Young University, Geology Studies. Provo, Utah Univ. California, Lawrence Berkeley Lab., Energy and Environ. Div., Rept.; Rept.: University of California, Lawrence Berkeley Laboratory, Energy and Environment Division, Report; Report. Berkeley, California.

Canadian Soc. Petroleum Geologists, Mem.: Canadian Society of Petroleum Geologists, Memoir. Calgary, Alberta, Canada

Carnegie Inst. Washington, Yearbook: Carnegie Institute of Washington, Yearbook. Washington, D.C.

Carnegie Museum, Annals: Pittsburgh, Pennsylvania

Carnegie Museum Natural History, Bull.: Carnegie Museum of Natural History, Bulletin

Centre Recherches Pau, Bull.: Bulletin des Centres de Recherches Exploration-Production Elf-Aquitaine. Pau, France

Chem. Geology: Chemical Geology, Elsevier Scientific Publishing Company. Amsterdam, The Netherlands

Chemosphere: Pergamon Press. Oxford, United Kingdom

Coal Age: McGraw-Hill Company. New York, New York

Coal Mining and Processing: Maclean Hunter Publishing Corporation. Chicago, Illinois

Colorado Geol. Survey, Resource Ser.: Colorado Geological Survey, Resource Series. Denver, Colorado Colorado Mining Assoc., Mining Yearbook: Colorado Mining Association, Mining Yearbook. Denver, Colorado

Colorado School Mines, Quart.; Studies in Colorado Field Geology: Colorado School of Mines, Quarterly; Studies in Colorado Field Geology. Golden, Colorado

Colorado-Wyoming Acad. Sci., Jour.: Colorado-Wyoming Academy of Science, Journal, Colorado State University. Fort Collins, Colorado

Compass: The Compass of Sigma Gamma Epsilon, School of Geology and Geophysics, University of Oklahoma, Norman, Oklahoma

Condor: Journal of the Cooper Ornithological Society, Allen Press, Incorporated. Lawrence, Kansas

Contr. Mineralogy and Petrology: Contributions in Mineralogy and Petrology, Springer-Verlag. New York, New York

Dissert. Abs. Internat.: Dissertation Abstracts International, University Microfilms. Ann Arbor, Michigan

Drill Bit: Hart Publications. Denver, Colorado

Earth and Planet. Sci. Letters: Earth and Planetary Science Letters, Elsevier Scientific Publishing Company. Amsterdam, The Netherlands

Earthquake Notes: Eastern Section, Seismological Society of America

Earth-Science Reviews: Elsevier Scientific Publishing Company. Amsterdam, The Netherlands

Earth Surface Processes

Econ. Geology: Economic Geology and the Bulletin of the Society of Economic Geologists. New Haven, Connecticut

Electric Power Research Inst., Rept.: Electric Power Research Institute, Report. Palo Alto, California

Electron Microscopy Soc. America, Proc.: Electron Microscopy Society of America, Proceedings

El Paso Geol. Soc.: El Paso Geological Society, University of Texas (El Paso). El Paso, Texas

Energy: Pergamon Press. Oxford, United Kingdom

Energy Research and Develop. Adm., Rept.: Energy Research and Development Administration, Report (U.S. Department of Energy)

Eng. and Mining Jour.: Engineering and Mining Journal, McGraw-Hill Publishing Company. New York, New York

Eng. Geologist: The Engineering Geologist, Engineering Division, Geological Society of America. Boulder, Colorado

Environ. Sci. and Tech.: Environmental Science and Technology, American Chemical Society. Washington, D.C.

Fed. Inter-Agency Sediment. Conf., Proc.: Federal Interagency Sedimentation Conference, Proceedings Fieldiana Geology: Field Museum of Natural History. Chicago, Illinois

Folia Primatologica: International Journal of Primatologica, S. Karger. Basel, Switzerland

Fort Burgwin Research Cent., Pub.: Fort Burgwin Research Center, Publication, Museum of New Mexico. Santa Fe, New Mexico

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

Geochem. Soc. Japan, Geochem. Jour.: Geochemical Society of Japan, Geochemical Journal. Tokyo, Japan

Geochim. et Cosmochim. Acta: Geochimica et Cosmochimica Acta, Journal of the Geochemical Society and the Meteoritical Society, Pergamon Press. Oxford, United Kingdom

Geol. Assoc. Canada, Spec. Rept.: Geological Association of Canada, Special Report, University of Toronto, Toronto, Ontario, Canada

Geol. Soc. America, Abs. with Programs; Bull.; Mem.: Geological Society of America, Abstracts with Programs; Bulletin; Memoir. Boulder, Colorado

Geology: Geological Society of America. Boulder, Colorado

Geophys. Research Letters: Geophysical Research Letters, American Geophysical Union. Washington, D.C.

Geophysics: Society of Exploration Geophysicists. Tulsa, Oklahoma

Geothermal Energy Mag.: Geothermal Energy Magazine

Geothermal Resources Coun., Ann. Mtg., Proc.; Trans.: Geothermal Resources Council, Annual Meeting, Proceedings; Transactions. Davis, California

Geothermics: International Journal of Geothermal Research. Pisa, Italy; Pergamon Press. Oxford, United Kingdom

Geotimes: American Geological Institute. Washington, D.C.

Ground Water: Journal of Ground Water Technology, Division of the National Water Well Association. Worthington, Ohio

Gulf Coast Assoc. Geol. Soc., Trans.: Gulf Coast Associated Geological Societies, Transactions, University of Texas (Austin). Austin, Texas

Health Physics: Official Journal of the Health Physics Society, Pergamon Press. Oxford, United Kingdom

Herpetologica: Herpetologists League, Brigham Young University. Provo, Utah

Internat. Assoc. Genesis Ore Deposits, Program and Abs.: International Association on Genesis of Ore Deposits, Program and Abstracts. Gainesville, Florida

Internat. Atomic Energy Agency, Proc. Ser.: International Atomic Energy Agency, Proceedings Series. Vienna, Austria

Internat. Boundary and Water Comm., U.S. and Mexico, Water Bull.: International Boundary and Water Commission, U.S. and Mexico, Water Bulletin

Internat. Congr. Carboniferous Stratigraphy and Geology, Abs.: International Congress on Carboniferous Stratigraphy and Geology, Abstracts

Internat. Geochem. Explor. Symp., Proc.: International Geochemical Exploration Symposium, Proceedings

Internat. Geol. Congr., Abs.: International Geological Congress, Abstracts. Paris, France

Internat. Jour. Rock Mechanics and Mining Sci., Geomechanics Abs.: International Journal of Rock Mechanics and Mining Science and Geomechanics Abstracts, Pergamon Press. Oxford, United Kingdom

Internat. Soc. Geothermal Engineering and the Geothermal Jour.: International Society on Geothermal Engineering and the Geothermal Journal

Internat. Symp. Remote Sensing Environ., Proc.: International Symposium on Remote Sensing of the Environment, Proceedings, Environmental Institute of Michigan. Ann Arbor, Michigan

Interstate Oil Compact Comm., Comm. Bull.: Interstate Oil Compact Commission, Committee Bulletin. Oklahoma City, Oklahoma

Irrig. Age: Irrigation Age

Isochron/West: Nevada Bureau of Mines and Geology and New Mexico Bureau of Mines and Mineral Resources. Socorro, New Mexico

Jour. Arizona History: Journal of Arizona History

Jour. Environ. Quality: Journal of Environmental Quality, American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America. Madison, Wisconsin

Jour. Geochem. Exploration: Journal of Geochemical Exploration, Elsevier Scientific Publishing Company. Amsterdam, The Netherlands

Jour. Geology: Journal of Geology, University of Chicago Press. Chicago, Illinois

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

Jour. Hydrology: Journal of Hydrology, Elsevier Scientific Publishing Company. Amsterdam, The Netherlands

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

Jour. Paleontology: Journal of Paleontology, Society of Economic Paleontologists and Mineralogists and The Paleontological Society. Tulsa, Oklahoma

Jour. Petroleum Tech.: Journal of Petroleum Technology, Society of Petroleum Engineers. Dallas, Texas

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

Jour. Soil and Water Conservation: Journal of Soil and Water Conservation, Soil Conservation Society of America. Ankeny, Iowa

Jour. Volcanology and Geothermal Research: Journal of Volcanology and Geothermal Research, Elsevier Scientific Publishing Company. Amsterdam, The Netherlands

Kansas Water Resource Research Inst., Contrib.: Kansas Water Resource Research Institute, Contributions. Topeka, Kansas

Lab. Global Tectonics and Metallogeny, Bull.: American University, Laboratory of Global Tectonics and Metallogeny, Bulletin. Washington, D.C.

Lethaia: An international journal of paleontology and stratigraphy, Universitetsforlaget. Oslo, Norway

Los Alamos Natl. Lab.: Los Alamos National Laboratory (post 1980). Los Alamos, New Mexico

Los Alamos Sci. Lab., Inf. Rept.; Prog. Rept.; Rept.: Los Alamos Scientific Laboratory, Informal Report; Progress Report; Report (pre 1980). Los Alamos, New Mexico

Los Angeles County Museum Natural History, Contrib. in Science: Los Angeles County Museum of Natural History, Contributions in Science. Los Angeles, California

Lunar and Planet. Inst.: Lunar and Planetary Institute. Houston, Texas

Univ. Michigan, Mus. Paleontology, Contrib.: University of Michigan, Museum of Paleontology, Contributions. Ann Arbor, Michigan

Mineral. Mag.: Mineralogical Magazine, Mineralogical Society of Great Britain. London, United Kingdom

Mineral. Record: Mineralogical Record. Tuscon, Arizona

Mining Congr. Jour.: Mining Congress Journal, American Mining Congress. Washington, D.C.

Mining Engineering: American Institute of Mining, Metallurgical, and Petroleum Engineers. New York, New York

Mtn. Geologist: Mountain Geologist, Rocky Mountain Association of Geologists. Denver, Colorado

Natl. Acad. Sci.: National Academy of Sciences. Washington, D.C.

Natl. Aeronautics and Space Admin.: National Aeronautics and Space Administration

Natl. Geog. Soc., Research Rept.: National Geographic Society, Research Report. Washington, D.C.

Natl. Sci. Foundation, Geothermal Energy Prog.: National Science Foundation, Geothermal Energy Program

Natl. Speleological Soc., Bull.: National Speleological Society, Bulletin. Huntsville, Alabama

Natl. Tech. Inf. Serv., Rept.; Water-resources Data Rept.: National Technical Information Service, Report; Water-resources Data Report, U.S. Department of Commerce. Springfield, Virginia

NATO Advanced Study Inst. Ser., Mathematical and Physical Sci.: North Atlantic Treaty Organization Advanced Study Institute Series, Mathematical and Physical Sciences

Natural Resources Jour.: Natural Resources Journal, University of New Mexico, School of Law. Albuquerque, New Mexico

Nature: Macmillan (Journals) Limited. London, United Kingdom

Nautilus: The Nautilus, American Malacological Union. Havertown, Pennsylvania

Neues Jahrb. Geologie u. Paläontologie Monatsh: Neues Jahrbuch für Geologie und Paläontologie Monatshefte, E. Schweizerbart'sche Verlagsbuchhandlung. Stuttgart, Federal Republic of Germany

Neues Jahrb. Mineralogie Monatsch.: Neues Jahrbuch für Mineralogie Monatshefte, E. Schweizerbart'sche Verlagsbuchhandlung. Stuttgart, Federal Republic of Germany

Nevada Bureau Mines, Rept.: Nevada Bureau of Mines, Report, Reno, Nevada

Univ. New Mexico, New Mexico Minerals Symp.: University of New Mexico, New Mexico Minerals Symposium. Albuquerque. New Mexico

New Mexico Acad. Sci., Bull.: New Mexico Academy of Science, Bulletin (see New Mexico Journal of Science)

New Mexico Bureau Mines Mineral Resources, Ann. Rept.; Bull.; Circ.; Geol. Map; Hydro. Sheet; Hydro. Rept.; Mem.; Open-file Rept.; Prog. Rept.; Resource Map; Scenic Trip: New Mexico Bureau of Mines and Mineral Resources, Annual Report; Bulletin; Circular; Geologic Map; Hydrogeologic Sheet; Hydrologic Report; Memoir; Open-file Report; Progress Report; Resource Map; Scenic Trip to the Geologic Past. Socorro, New Mexico

New Mexico Energy and Minerals Dept., Bureau Mine Inspection: New Mexico Energy and Minerals Department, Bureau of Mine Inspection. Albuquerque, New Mexico

New Mexico Energy Inst., Rept.: New Mexico Energy Institute, Report, New Mexico State University. Las Cruces. New Mexico

New Mexico Geol. Soc., Guidebook; Spec. Rept.: New Mexico Geological Society, Guidebook; Special Report. Socorro, New Mexico

New Mexico Geology: New Mexico Bureau of Mines and Mineral Resources, Socorro, New Mexico

New Mexico Inst. Mining and Tech., Geophysics Open-file Rept.: New Mexico Institute of Mining and Technology, Geophysics Open-file Report. Socorro, New Mexico

New Mexico Jour. Sci.: New Mexico Journal of Science, New Mexico Academy of Science, New Mexico Highlands University. Las Vegas, New Mexico

New Mexico Legislative Energy Comm.: New Mexico Legislative Energy Committee. Santa Fe, New Mexico

New Mexico Natural Resources Dept., Soil and Water Conserv. Div.: New Mexico Natural Resources Department, Soil and Water Conservation Division. Santa Fe, New Mexico

New Mexico State Engineer, Basic-data Rept.; Map; Open-file Rept.; Spec. Rept.; Tech. Rept.: New Mexico State Engineer, Basic-data Report; Map; Open-file Report; Special Report; Technical Report. Santa Fe. New Mexico

New Mexico State Highway Dept.: New Mexico State Highway Department. Santa Fe, New Mexico

New Mexico State Univ., Agric. Exp. Station, Bull.; Research Rept.; Water Resources Research Institute, Rept.: New Mexico State University, Agricultural Experiment Station, Bulletin; Research Report; Water Resources Research Institute, Report. Las Cruces, New Mexico

New Mexico Water Quality Control Comm.: New Mexico Water Quality Control Commission

Oil and Gas Compact Bull.: Oil and Gas Compact Bulletin, Interstate Oil Compact Commission. Oklahoma City, Oklahoma

Oil and Gas Jour.: Oil and Gas Journal, Penn Well Publishing Company. Tulsa, Oklahoma

Oklahoma Geol. Survey, Circ.: Oklahoma Geological Survey, Circular. Norman, Oklahoma

Oklahoma State Univ., Agric. Exp. Station, Resource Rept.: Oklahoma State University, Agricultural Experiment Station, Resource Report. Stillwater, Oklahoma

Pacific Coast Paleogeog. Symp.: Pacific Coast Paleogeography Symposium, Society of Economic Paleontologists and Mineralogists, Pacific Section. Los Angeles, California

Palaeontological Assoc., Spec. Paper Palaeontology: Palaeontological Association, Special Paper in Palaeontology. London, United Kingdom

Paleobiology

Petroleum Today: American Petroleum Institute. New York, New York

Pollution Abs.: Pollution Abstracts, Cambridge Scientific Abstracts. Washington, D.C.

Precambrian Research: Elsevier Scientific Publishing Company. Amsterdam, The Netherlands

Priroda: Akademiya Nauk S.S.S.R. Moscow, U.S.S.R.

Psyche: Cambridge Entomological Club. Cambridge, Massachusetts

Pure and Applied Geophysics: Birkhäuser Verlag. Basel, Switzerland

Quaternary Research: Academic Press. New York, New York

Reclamation Rev.: Reclamation Review

Rocky Mtn. Assoc. Geologists, Guidebook; Spec. Pub.: Rocky Mountain Association of Geologists, Guidebook; Special Publication. Denver, Colorado

Roswell Geol. Soc.: Roswell Geological Society. Roswell, New Mexico

Royal Astron. Soc., Geophys. Jour.: Royal Astronomical Society, Geophysical Journal. London, United Kingdom

Sandia Natl. Lab.: Sandia National Laboratories (post 1980). Albuquerque, New Mexico

Sandia Lab., Open-file Rept.; Rept.: Sandia Laboratories, Open-file Report; Report (pre 1980). Albuquerque, New Mexico

Science: Journal of the American Association for the Advancement of Science, Washington, D.C.

Sedimenta: Comparative Sedimentology Laboratory, Rosenstiel School of Marine and Atmospheric Science, University of Miami. Miami, Florida

Sedimentology: Journal of the International Association of Sedimentologists, Blackwell Scientific Publications. Oxford, United Kingdom

Seismol. Soc. America, Bull.: Seismological Society of America, Bulletin. Berkeley, California

Sel. Water Resources Abs.: Selected Water Resources Abstracts, U.S. Department of the Interior. Washington, D.C.

Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Guidebook; Reprint Ser.; Spec. Rept.: Society of Economic Paleontologists and Mineralogists, Permian Basin Section, Guidebook; Reprint Series; Special Report. Midland, Texas, and Tulsa, Oklahoma

Soc. Exploration Geophys., Ann. Mtg.: Society of Exploration Geophysicists, Annual Meeting. Tulsa, Oklahoma

Soc. Petroleum Engineers, Ann. Fall Tech. Conf.; Jour.: Society of Petroleum Engineers, Annual Fall Technical Conference; Journal. Dallas, Texas

Soil Sci. Soc. America, Jour.: Soil Science Society of America, Journal. Madison, Wisconsin

Southwestern Naturalist: Southwestern Association of Naturalists. Lubbock, Texas

Southwest Resource and Inf. Center: Southwest Resource and Information Center

Tectonophysics: Elsevier Scientific Publishing Company. Amsterdam, The Netherlands

Univ. Texas (Austin), Bureau Econ. Geology, Geologic Atlas Texas; Guidebook: University of Texas (Austin), Bureau of Economic Geology, Geologic Atlas of Texas; Guidebook. Austin, Texas

Texas Jour. Sci.: The Texas Journal of Science, Texas Academy of Science, Texas Tech University Press. Lubbock, Texas

Texas Speleological Soc.: Texas Speleological Society

Tulane Univ., Studies in Geol. and Paleontology: Tulane University, Studies in Geology and Paleontology. New Orleans, Louisiana

Union Carbide Corp., Office Waste Isolation, Rept.: Union Carbide Corporation, Office of Waste Isolation, Report

U.S. Bureau Indian Affairs, Rept.: U.S. Bureau of Indian Affairs, Report. Washington, D.C.

U.S. Bureau Land Management, Rept.: U.S. Bureau of Land Management, Report. Washington, D.C.

U.S. Bureau Mines, Minerals Yearbook; Rept. Inv.; State Mineral Profile: U.S. Bureau of Mines, Minerals Yearbook; Report of Investigation; State Mineral Profile. Washington, D.C.

U.S. Bureau Reclamation: U.S. Bureau of Reclamation. Washington, D.C.

U.S. Dept. Agriculture, Soil Conserv. Serv., Ann. Rept.: U.S. Department of Agriculture, Soil Conservation Service, Annual Report. Washington, D.C.

U.S. Dept. Energy, Rept.: U.S. Department of Energy, Report. Washington, D.C.

U.S. Dept. Interior, Rept.: U.S. Department of the Interior, Report. Washington, D.C.

U.S. Dept. Transportation, Federal Highway Admin., Rept.: U.S. Department of Transportation, Federal Highway Administration, Report. Washington, D.C.

U.S. Energy Research and Develop. Admin., Rept.: U.S. Energy Research and Development Administration, Report (see U.S. Department of Energy)

U.S. Environ. Protection Agency: U.S. Environmental Protection Agency. Washington, D.C.

U.S. Geol. Survey, Ann. Water-data Rept.; Bull.; Circ.; Geol. Quad. Map; Hydrol. Inv. Atlas; Jour. Research; Land Use and Land Cover Map; Misc. Field Studies Map; Misc. Inv. Ser., Map; Oil and Gas Inv. Chart; Open-file Rept.; Prof. Paper; Water-resources Inv.; Water-supply Paper: U.S. Geological Survey, Annual Water-data Report; Bulletin; Circular; Geologic Quadrangle Map; Hydrologic Investigation Atlas; Journal of Research; Land Use and Land Cover Map; Miscellaneous Field Studies Map; Miscellaneous Investigation Series, Map; Oil and Gas Investigation Chart; Open-file Report; Professional Paper; Water-resources Investigation; Water-supply Paper. Reston, Virginia

U.S. Govt. Printing Office, Rept.: U.S. Government Printing Office, Report. Washington, D.C.

U.S. Natl. Park Serv., Trans. Proc. Ser.: U.S. National Park Service, Transactions and Proceedings Series. Washington, D.C.

Utah Geol.: Utah Geology, Utah Geological and Mineral Survey. Salt Lake City, Utah

Water, Air, and Soil Pollution: D. Reidel Publishing Company. Dordrecht, The Netherlands

Water Resources Research: American Geophysical Union. Washington, D.C.

Western Oil Reporter: Hart Publications. Denver, Colorado

West Texas Geol. Soc., Guidebook Pub.; Newsletter: West Texas Geological Society, Guidebook Publication; Newsletter. Midland, Texas

West Virginia Geol. and Econ. Survey, Circ.: West Virginia Geological and Economic Survey, Circular. Morgantown, West Virginia

World Oil: Gulf Publishing Company. Houston, Texas

Univ. Wyoming, Contrib. to Geol.: University of Wyoming, Contributions to Geology. Laramie, Wyoming

Bibliography

Aamodt, R. Lee

1976 Hydraulic fracturing in and communication between two adjacent wellbores (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 349

1977 Hydraulic fracture experiments in GT-1 and GT-2: Los Alamos Sci. Lab., Rept. 6712, 19 p.

1978 (Aki, K., Albright, J. N., and others) Fracture and borehole mapping technique development: Los Alamos Sci. Lab., Rept. 7109, p. 82-141

1978 (Blatz, L. A., Brown, D. W., and others) Field studies of reservoir properties: Los Alamos Sci. Lab., Rept. 7109, p. 165-192

1978 (Brown, D. W., Fisher, H. N., and others) Reservoir performance modeling: Los Alamos Sci. Lab., Rept. 7109, p. 195-221

1979 (Bunker, M. E., Waterbury, G. R., and others) Hydrogeochemical and stream sediment reconnaissance of the National Uranium Resource Evaluation Program—October 1978-March 1979, primarily for the Rocky Mountain States of New Mexico, Colorado, Wyoming, and Montana and the State of Alaska: Los Alamos Sci. Lab., Rept. LA-7721-PR, 15 p.

1977 (Hansel, J. M., Minor, M. M., and Beckman, R. J.) Hydrogeochemical and stream sediment reconnaissance of the National Uranium Resource Evaluation Program—October-December 1976: Los Alamos Sci. Lab., Rept. LA-6708-PR, 27 p., 3 tables, 11 figs.; Natl. Tech. Inf. Serv., Rept. GJBX-20-77, 27 p.; Sel. Water Resources Abs., 1979, v. 12, no. 12, p. 32

1979 (Waterbury, G. R., Bunker, M. E., and others) Hydrogeochemical and stream sediment reconnaissance of the National Uranium Resource Evaluation Program—April-September 1978, primarily for the Rocky Mountain States of New Mexico, Colorado, Wyoming, and Montana and the State of Alaska: Los Alamos Sci. Lab., Rept. LA-7720-PR, 20 p.; Natl. Tech. Inf. Serv., Rept. GJBX-109-79, 20 p.

see Aki and others, 1977; Murphy, H. D., and others, 1978; and Sharp and others, 1978

Abbot, Joseph

see Keizer and others, 1979

Abbott, M. M.

1979 A basic evaluation of the uranium potential of the Morrison Formation of northwestern Cimarron County, Oklahoma, and adjoining areas of New Mexico and Colorado: M.S. thesis, Oklahoma State Univ., 92 p.

Abel, J. F., Jr.

1979 (Dowis, J. E., and Richards, D. P.) Concrete shaft lining design: 20th Symp. on Rock Mech., Proc., p. 627-640

see Gentry and Abel, 1978

Abernathy, George H.

see Lansford, Chaturvedi, and others, 1980

Adam, D. P.

1980 (and Mehringer, P. J.) Scanning electron micrographs of modern chrysomonad cysts from Castor Pond, Jemez Mountains, New Mexico: U.S. Geol. Survey, Open-file Rept. 80–1231, 18 p.

Adams, Roy D.

1978 Effects of localized tectonic activity on regional sedimentation in the Pennsylvanian Madera Formation and the Permian Abo Formation, north-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 5, p. 209

1980 Late Paleozoic tectonic and sedimentologic history of the Peñasco uplift, north-central New Mexico: M.S. thesis, Rice Univ., 79 p.

Adams, S. S.

1977 Interpretation of postdepositional processes related to formation and destruction of uranium deposits in sandstones (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 5, p. 759

1978 (Curtis, H. S., Hafen, P. L., and Salek-Nejad, H.) Interpretation of postdepositional processes related to the formation and destruction of the Jackpile-Paguate uranium deposit, northwest New Mexico: Econ. Geology, v. 73, p. 1635-1654

Adams, W. Howard

see Purtymun and Adams, 1980; Purtymun, Adams, and others, 1977; and Purtymun, Stoker, and others, 1978

Affholter, Kathleen

1979 Petrogenesis of orbicular rock, Tijeras Canyon, Sandia Mountains, New Mexico: M.S. thesis, Univ. New Mexico, 124 p.

Affolter, Ronald H.

see Schneider, Hildenbrand, and Affolter, 1979

Agenbroad, Larry D.

1978 Mammuthus in the Clovis horizon of North America (abs.): Am. Quaternary Assoc., Abs., 5th Bienn. Mtg., p. 108-110

Aguilar, P. C.

1976 (Cheeseman, R. J., and Sandell, E. T., Jr.) Preliminary map showing distribution of potash resources, Carlsbad mining district, Eddy and Lea Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 76-554, scale 1:62,500

Agurkis, Edward N.

1977 Depositional history of the Piankasha sequence (Upper Devonian), southern Arizona and southwestern New Mexico: M.S. thesis, Arizona State Univ., 179 p.

Ahlen, Jack

1977a Corral Canyon field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 86–87, 1 table, 1 fig.

1977b Garrett west Devonian field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 96-97, 1 table, 1 fig.

1977c Quail Queen field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 156–157, 1 table, 1 fig.

1977d Triple X Delaware field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 202–203, 1 table, 1 fig.

1977 (and Havenor, K. C.) Buffalo Valley Penn

field, Chaves County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 62-63, 1 table, 1 fig.

Ahmad, S. N.

1980 (and Rose, A. W.) Fluid inclusions in porphyry and skarn ore at Santa Rita, New Mexico: Econ. Geology, v. 75, no. 2, p. 229-250

Ahr, Wayne M.

see Berg and Ahr, 1978

Aiken, Carlos L. V.

1977 Definition of the Rio Grande rift in northern New Mexico by residual Bouguer gravity anomaly analysis (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 1

1978 A residual Bouguer gravity anomaly map of southwestern United States and northern Mexico with emphasis on the Rio Grande rift, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 102-104

1977 (Laughlin, A. W., and West, F. G.) Residual Bouguer gravity anomaly map of northern New Mexico: Los Alamos Sci. Lab., Rept. LA-6737

1978 (Laughlin, A. W., and West, F. G.) Residual Bouguer gravity anomaly map of New Mexico: Los Alamos Sci. Lab., UC-11 LA-7466-MAP, scale 1:500,000

1978 (and others) A multistage gravity study for geothermal resources in the southwestern U.S. (abs.): Soc. Exploration Geophys., 48th ann. mtg., p. 110

see Western and Aiken, 1977

Akers, Jay P.

see Cooley and others, 1978

Aki, Keiiti

1980 Seismic model of a hydro-fractured earth with special reference to the HDR geothermal energy source (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1051

1977 (Aamodt, R. L., Albright, J. N., Potter, R. M., and Fehler, M.) Seismic methods for defining fractures of a hot dry rock geothermal system (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 12, p. 1187

see Aamodt, Aki, and others, 1978

Akright, Robert L.

1979 Geology and mineralogy of the Cerrillos copper deposit, Santa Fe County, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 257-260, 6 figs.

Albright, James N.

1976 Preliminary seismic mapping of the main fracture in GT-2 (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 349

1979 The acoustic response of the Fenton Hill reservoir (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 7, p. 94

1978 (Douglas, D. D., Elsberry, K., and others) Environmental studies: Los Alamos Sci. Lab., Rept. 7109, p. 249-267

see Aamodt, Aki, and others, 1978; Aki and others, 1977; Pearson and others, 1980; and Tester and Albright, 1979

Alcorn, John S.

1977 Bagley (Pennsylvanian) north field, Lea

County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 52-53, 1 table, 1 fig.

1977 Bagley (Wolfcamp) north field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 54, 1 table

Aldon, Earl F.

1976 Soil ripping for runoff and erosion control: Fed. Inter-Agency Sediment. Conf., Proc., no. 3, p. 2.24-2.29

1978a Endomycorrhizae enhance shrub growth and survival on mine spoils, *in* The reclamation of disturbed arid lands, R. A. Wright, editor: Univ. New Mexico Press, chap. 9, p. 174–179, 2 tables

1978b Reclamation of coal mined land in the Southwest: Jour. Soil and Water Conservation, v. 33, no. 2, p. 75-79; Sel. Water Resources Abs., v. 11, no. 18, p. 27

1977 (and Garcia, G.) Seventeen-year sediment production from a semiarid watershed in the Southwest (abs.): Sel. Water Resources Abs., v. 10, no. 3, p. 30

Aldrich, Merrit J., Jr.

1976 Geology and flow directions of volcanic rocks of the North Star Mesa quadrangle, Grant County, New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 79–81, 1 fig.

1978 Subsurface extensions of the Santa Rita-Hanover axis—a major early Tertiary structure, New Mexico: Geology, v. 6, no. 6, p. 373-376, 5 figs. see Smith, E. I., and others, 1976

Aldridge, B. N.

see Roeske and others, 1978

Alexander, E. C., Jr.

see Saito, Basu, and others, 1977; and Saito, Menzies, and others, 1978

Alexander, Richard R.

1980 External growth-lamellar patterns in brachiopods from the Madera Formation (Pennsylvanian) of New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 265

Allan, James W.

1978 (and Swan, M. M.) Phanerozoic reactivation of Precambrian structure—a significant control on the emplacement of Laramide-age magmas and their related porphyry copper systems in the southwestern United States (abs.): Internat. Assoc. Genesis Ore Deposits, 5th Symp., Program and Abs., p. 37

Allen, Philip G.

1979 Geology of the west flank of the Magdalena Mountains south of the Kelly mining district, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 119, 161 p., 1 table, 23 figs., 1 pl.

Allen, Russell W.

see Coury and others, 1978; and Dolton, Coury, and others, 1980

Allmendinger, R. W.

see Brown, L. D., Allmendinger, and others, 1980 Alminas, Henry V.

1978 (and Watts, K. C.) Interpretive geochemical

map of the Hillsboro and San Lorenzo quadrangles, exclusive of the Black Range Primitive Area, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-G, scale 1:48,000

1978a (Watts, K. C., Siems, D. F., and Kraxberger, V. E.) Map showing anomalous silver distribution in stream sediment concentrates, Hillsboro and San Lorenzo quadrangles, exclusive of the Black Range Primitive Area, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-C, scale 1:48,000

1978b (Watts, K. C., Siems, D. F., and Kraxberger, V. E.) Map showing anomalous copper distribution in stream sediment concentrates, Hillsboro and San Lorenzo quadrangles, exclusive of the Black Range Primitive Area, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-D, scale 1:48,000

1978c (Watts, K. C., Siems, D. F., and Kraxberger, V. E.) Map showing anomalous molybdenum distribution in stream sediment concentrates, Hillsboro and San Lorenzo quadrangles, exclusive of the Black Range Primitive Area, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-E, scale 1:48,000

1978d (Watts, K. C., Siems, D. F., and Kraxberger, V. E.) Map showing anomalous zinc distribution in stream sediment concentrates, Hillsboro and San Lorenzo quadrangles, exclusive of the Black Range Primitive Area, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-F, scale 1:48,000

see Watts and Alminas, 1979; Watts, Alminas, and Kraxberger, 1978; and Watts, Alminas, Nishi, and Crim, 1978a-c

Alvarez, Luis J.

see Pedersen, Alvarez, and Hermance, 1979

Alvarez, Walter

1979 (and Vann, D. W.) Comment on "Biostratigraphy and magnetostratigraphy of Paleocene terrestrial deposits, San Juan Basin, New Mexico": Geology, v. 7, no. 2, p. 66-67, 2 figs.

American City and County

1977 Albuquerque closes water-wastewater cycle: Am. City and County, v. 92, no. 7, p. 60; Pollution Abs., v. 9, no. 1, p. 35

American Geophysical Union

1977a Hot dry rock—widespread but invisible: Am. Geophys. Union (EOS), Trans., v. 58, no. 5, p. 299-302, 1 fig.

1977b Coal gasification plans: Am. Geophys. Union (EOS), Trans., v. 58, no. 11, p. 1029, 1 fig.

Amesbury, Janet E.

see Weimer and others, 1979

Amuedo, C. L.

1977 (and Bryson, R. S.) Trinidad-Raton Basins a model coal resource evaluation program, *in* Geology of Rocky Mountain coal—proceedings of the 1976 symposium, D. K. Murray, editor: Colorado Geol. Survey, Resource Series 1, p. 45-60

Ander, Mark E.

1980 Geophysical study of the crust and upper mantle beneath the central Rio Grande rift and adjacent Great Plains and Colorado Plateau: Ph.D. thesis, Univ. New Mexico 1980 (Goss, Ron, Strangway, D. W., Hillebrand, Cary, Laughlin, A. W., and Hudson, Cassandra) Magnetotelluric/audiomagnetotelluric study of the Zuni hot dry rock prospect, New Mexico: Geothermal Resources Coun., Trans., v. 4, Sept., p. 5-8, 4 figs.

1979 (Heinken, G., Eichelberger, J., and Huestis, Stephen) Geologic and geophysical investigation of the Chimney Hill gravity high, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 396

1978 (and Huestis, Stephen) Gravity indications of a shallow mafic intrusion beneath the Lucero uplift, abs. in International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 9-10, 1 fig.

1980 (Laughlin, A. W., Furgerson, Robert, Foster, John, and Strangway, D. W.) Magnetotelluric study of the Zuni hot dry rock prospect and Jemez lineament (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 17, p. 365

see Jiracek, Ander, and Holcombe, 1979; Jiracek, Ander, and Reddy, 1978; Jiracek, Smith, and others, 1977; and Smith, C. S., and others, 1977

Anderholm, Scott K.

1979 Hydrogeology and water resources of the Cuba quadrangle, Sandoval and Rio Arriba Counties, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech.

see Stone, W. J., Brod, and Anderholm, 1978

Anderson, C. A.

see Bridwell and Anderson, 1980

Anderson, J. R.

1976 (Hardy, E. E., Roach, J. T., and Witmer, R. E.) A land use and land classification system for use with remote sensor data: U.S. Geol. Survey, Prof. Paper 964, 28 p.

Anderson, John B.

see Kurtz and Anderson, 1980

Anderson, John G.

1978 On the attenuation of modified Mercalli intensity with distance in the United States: Seismol. Soc. America, Bull., v. 68, no. 4, p. 1147-1179, 4 tables, 6 figs.

Anderson, Orin J.

1978a Coal, in New Mexico's energy resources '77, E. C. Arnold, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 167, p. 28–33, 4 tables, 2 figs.

1978b Uranium, *in* New Mexico's energy resources '77, E. C. Arnold, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 167, p. 34-41, 7 tables, 2 figs.

1977 (Hatton, K. S., and Kottlowski, F. E.) Coal, in New Mexico's energy resources '76, E. C. Arnold, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 148, p. 17-21, 3 tables, 1 fig.

1977 (Page, G. B., and Arnold, E. C.) Uranium, *in* New Mexico's energy resources '76, E. C. Arnold, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 148, p. 22–25, 8 tables, 2 figs.

see Arnold and Anderson, 1978

Anderson, Rod

1977a Carlsbad field, Eddy County, New Mexico, in The oil and gas fields of southeastern New Mexico,

1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 21-28, 6 figs.

1977b Winchester (Morrow) field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 218–219, 1 table, 1 fig.

1977c Winchester (Wolfcamp) field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 220, 1 table

Anderson, Roger Y.

1977 Short term sedimentation response in lakes in western United States as measured by automated sampling (abs.): Sel. Water Resources Abs., v. 10, no. 20, p. 16

1978 (Kietzke, K. K., and Rhodes, D. J.) Development of dissolution breccias, northern Delaware Basin, New Mexico and Texas, *in* Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 46–52, 7 figs.

1979 (and Kirkland, D. W.) Dissolution of salt in the Delaware Basin by means of brine density flow (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 379

1980 (and Kirkland, D. W.) Dissolution of salt deposits by brine density flow: Geology, v. 8, no. 2, p. 66-69

1978 (and Powers, D. W.) Salt anticlines in Castile-Salado evaporite sequence, northern Delaware Basin, New Mexico, *in* Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 78-83, 6 figs.

see Dean and Anderson, 1978a,b

Aoki, Ken-Ichiro

1976 (and Kudo, A. M.) Major-element variations of late Cenozoic basalts of New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 82–88, 6 tables, 3 figs.

Apt, K. E.

1976 (and Lee, V. J.) Chemical quality of surface and ground waters, *in* Environmental surveillance at Los Alamos during 1975: Los Alamos Sci. Lab., Inf. Rept. LA-6321-MS, p. 24-27

Arculus, R. J.

see Wilshire and others, 1977

Armstrong, Augustus K.

1979 North-central New Mexico, an alternate interpretation of the Mississippian, *in* Paleotectonic investigations of the Mississippian System in the United States—pt. 1, introduction and regional analyses of the Mississippian System, L. C. Craig and C. W. Connor, compilers: U.S. Geol. Survey, Prof. Paper 1010–K, p. 188–197, 1 table, 5 figs.

1980 (Kottlowski, F. E.; Stewart, W. J.; Mamet, B. L.; Baltz, E. H., Jr.; Siemers, W. T.; and Thompson, Sam, III) The Mississippian and Pennsylvanian (Carboniferous) Systems in the United States—New Mexico: U.S. Geol. Survey, Prof. Paper 1110-W, p. W1-W27, 1 table, 9 figs.

1977a (and Mamet, B. L.) Biostratigraphy and paleogeography of the Mississippian Leadville Lime-

stone in the San Juan Mountains, southwestern Colorado (and adjacent areas): U.S. Geol. Survey, Prof. Paper 85, 25 p., 3 pls.

1977b (and Mamet, B. L.) Biostratigraphy and paleogeography of the Mississippian System in northern New Mexico and adjacent San Juan Mountains of southwestern Colorado: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 111-127, 8 figs., 2 pls.

1978a (and Mamet, B. L.) The Bugle and Witch members of the Keating Formation, Escabrosa Group, and the Mississippian nomenclature in the Big Hatchet Mountains, Hidalgo County, New Mexico: U.S. Geol. Survey, Bull. 1457-A, p. A90-A94, 2 figs.

1978b (and Mamet, B. L.) The Mississippian System of southwestern New Mexico and southeastern Arizona: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 183-192, 9 figs.

1979a (and Mamet, B. L.) Carboniferous (Mississippian) microfacies and stratigraphy, New Mexico and adjacent southeastern Arizona (abs.): 9th Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 5-6; Am. Assoc. Petroleum Geologists, Bull., v. 62, p. 879

1979b (and Mamet, B. L.) The Mississippian System of north-central New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 201–210, 4 figs.

1979 (Mamet, B. L., and Burton, R. C.) The Mississippian-Pennsylvanian boundary in the Pedregosa Basin in southeastern Arizona and southwestern New Mexico (abs.): 9th Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 6

1980 (Mamet, B. L., and Repetski, J. E.) The Mississippian System of New Mexico and southern Arizona (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 671; also in Paleozoic paleogeography of the west-central United States, T. D. Fouch, editor, Soc. Econ. Paleontologists and Mineralogists, Rocky Mtn. Sec., p. 82-89

1978 (Silberman, M. L., Todd, V. R., Hoggatt, W. C., and Carten, R. B.) Geology of central Peloncillo Mountains, Hidalgo County, New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 158, 18 p., 2 tables, 4 figs., 1 map

see Robertson, J. M., Budding, and others, 1979

Armstrong, Dale G.

see Loring and Armstrong, 1980

Armstrong, Richard L.

see Graustein and Armstrong, 1978

Armstrong-Ziegler, Judy Gail

1978 An aniliid snake and associated vertebrates from the Campanian of New Mexico: Jour. Paleontology, v. 52, no. 2, p. 480-483, 2 tables, 1 fig.

1980 Amphibia and Reptilia from the Campanian of New Mexico: Fieldiana Geology (new series), no. 4, p. 1-39

Army Engineer District

1977a Flood plain information—San Juan River and tributaries, Farmington, New Mexico (abs.): Sel. Water Resources Abs., v. 10, no. 7, p. 26

1977b Flood plain information—Albuquerque arroyos, part V, Albuquerque, New Mexico (abs.): Sel. Water Resources Abs., v. 10, no. 18, p. 21

1977c Special flood hazard information-Alameda

and Las Cruces arroyos, Las Cruces, New Mexico (abs.): Sel. Water Resources Abs., v. 10, no. 23, p. 44

1977d Flood plain information—Rio San Jose, pueblo of Acoma, New Mexico (abs.): Sel. Water Resources Abs., v. 10, no. 19, p. 26–27

1977e Flood plain information—Rio San Jose, pueblo of Laguna, New Mexico (abs.): Sel. Water Resources Abs., v. 10, no. 24, p. 46-47

1977f Flood plain information—Pojoaque River and tributaries, Santa Fe County, New Mexico: Army Eng. Dist., Albuquerque, rept. for Santa Fe County, 32 p., 7 tables, 1 fig., 50 pls.; Sel. Water Resources Abs., 1979, v. 12, no. 23, p. 3

1978 Flood plain information—Mimbres River and Florida Gap Draw, Deming, Luna County, New Mexico: Army Eng. Dist., Albuquerque, rept. for Luna County Commissioners' Board, 25 p., 5 tables, 3 figs., 22 pls.; Sel. Water Resources Abs., 1979, v. 12, no. 23, p. 3

Arnold, Emery C.

1977 (compiler) New Mexico's energy resources '76—annual report of Office of the State Geologist: New Mexico Bureau Mines Mineral Resources, Circ. 148, 27 p., 22 tables, 8 figs.

1978 (compiler) New Mexico's energy resources '77—Office of the State Geologist: New Mexico Bureau Mines Mineral Resources, Circ. 167, 47 p., 29 tables, 17 figs.

1978 (and Anderson, O. J.) Energy in New Mexico and adjacent states, *in* New Mexico's energy resources '77, E. C. Arnold, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 167, p. 7-9, 2 tables.

1976 (Foster, R. W., Hill, J. M., Kottlowski, F. E., Page, G. B., Reiter, M. A., and Stone, W. J.) New Mexico's energy resources '75: New Mexico Bureau Mines Mineral Resources, Bull. 107, 40 p., 9 tables, 18 figs.

1980a (and Hill, J. M., compilers) New Mexico's energy resources '79—annual report of Bureau of Geology in the Mining and Minerals Division of New Mexico Energy and Minerals Department: New Mexico Bureau Mines Mineral Resources, Circ. 172, 55 p., 45 tables, 14 figs.

1980b (and Hill, J. M.) New Mexico's role, *in* New Mexico's energy resources '79, E. C. Arnold and J. M. Hill, compilers: New Mexico Bureau Mines Mineral Resources, Circ. 172, p. 7–8, 2 tables

1980 (Hill, J. M., and Donaldson, D. A.) Oil and gas, *in* New Mexico's energy resources '79, E. C. Arnold and J. M. Hill, compilers: New Mexico Bureau Mines Mineral Resources, Circ. 172, p. 9–27, 17 tables, 7 figs.

1977 (Hill, J. M., Donaldson, D. A., and Foster, R. W.) Oil and gas, *in* New Mexico's energy resources '76, E. C. Arnold, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 148, p. 7-16, 11 tables, 5 figs.

1978 (Hill, J. M., Donaldson, D. A., Martinez, L. B., Foster, R. W., and Gutjahr, A. L.) Oil and gas, *in* New Mexico's energy resources '77, E. C. Arnold, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 167, p. 9–27, 15 tables, 13 figs.

see Anderson, O. J., Page, and Arnold, 1977

Arth. J. G.

see Barker, F., Arth, and others, 1976

Ash, Sidney R.

1976 Preliminary report on the floral zones in the Upper Triassic Chinle Formation, southwestern United States (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 562-563

1978a (editor) Geology, paleontology, and paleoecology of a Late Triassic lake, western New Mexico: Brigham Young Univ., Geology Studies, v. 25, pt. 2, 95 p., 57 figs., 23 tables

1978b Stratigraphy of the Ciniza Lake beds and related strata, *in* Geology, paleontology, and paleoecology of a Late Triassic lake, western New Mexico, S. R. Ash, editor: Brigham Young Univ., Geology Studies, v. 25, pt. 2, p. 1-14, 1 table, 17 figs.

1978c Summary of the fossils in the Ciniza Lake beds, in Geology, paleontology, and paleoecology of a Late Triassic lake, western New Mexico, S. R. Ash, editor: Brigham Young Univ., Geology Studies, v. 25, pt. 2, p. 21–22

1978d Plant megafossils, in Geology, paleontology, and paleoecology of a Late Triassic lake, western New Mexico, S. R. Ash, editor: Brigham Young Univ., Geology Studies, v. 25, pt. 2, p. 23-43, 19 figs.

1978e Fish scales, in Geology, paleontology, and paleoecology of a Late Triassic lake, western New Mexico, S. R. Ash, editor: Brigham Young Univ., Geology Studies, v. 25, pt. 2, p. 67-68, 1 fig.

1978f Coprolites, in Geology, paleontology and paleoecology of a Late Triassic lake, western New Mexico, S. R. Ash, editor: Brigham Young Univ., Geology Studies, v. 25, pt. 2, p. 69-73, 3 figs.

1978 (Dean, W. E., Stone, J. F., Tasch, Paul, Weber, D. J., and Lawler, G. C.) Paleoecology of Lake Ciniza, *in* Geology, paleontology, and paleoecology of a Late Triassic lake, western New Mexico, S. R. Ash, editor: Brigham Young Univ., Geology Studies, v. 25, pt. 2, p. 89-95, 3 tables

1976 (and Read, C. B.) North American species of *Tempskya* and their stratigraphic significance: U.S. Geol. Survey, Prof. Paper 874, 42 p., 13 pls.

1976 (and Tidwell, W. D.) Upper Cretaceous and Paleocene floras of the Raton Basin, Colorado and New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 197–203, 4 figs. see Tidwell and Ash, 1980

Asquith, George B.

1976 (and Gilbert, J. L.) Proximal and distal braided alluvial facies in the lower braided interval of the Dakota Sandstone, northeastern New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 153–155, 4 figs.

1976 (Gilbert, J. L., and Smith, R. C.) Fortran IV program for the analysis of sedimentary structures from stratigraphic sections (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 563

see Gage and Asquith, 1977; and Gilbert and Asquith, 1976

Assereto, Riccardo

see Folk and Assereto, 1976

Atkinson, Paul G.

1980 Geothermal reservoir (initial state) Baca Location no. 1—New Mexico, Redondo Creek field: Geo-

thermal Resources Coun., Trans., v. 4, Sept., p. 435-438, 3 tables, 1 fig.

Atkinson, William W., Jr.

1976 Zoning and paragenesis of ores in the San Pedro Mountains, Santa Fe County, New Mexico, *in* Tectonics and mineral resources of North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 187–191, 9 figs.; Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 563–564

Attansi, E. D.

1979 (Garland, T. M., Wood, J. H., and others) Economics and resource appraisal—the case of the Permian Basin, *in* Hydrocarbon economics and evaluation, a symposium: Am. Inst. Mining, Metall., Petroleum Engineers, Soc. Petroleum Engineers, p. 227–234

Attebery, R. Tucker

1978 Lindrith Gallup-Dakota, west (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 381-384, 4 figs.

Aubele, Jayne C.

1976 Montoso maar—a detailed view of internal structure and stratigraphy, central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 564

1978a Geology of Cerros del Rio volcanic field, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 198-201, 1 table, 2 figs.

1978b Geology of the Cerros del Rio volcanic field, Santa Fe, Sandoval, and Los Alamos Counties, New Mexico: M.S. thesis, Univ. New Mexico, 136 p.

1979 The Cerros del Rio volcanic field: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 243–252, 1 table, 10 figs.

1976 (Crumpler, L. S., Loeber, K. N., and Kudo, A. M.) Maare and tuff rings in New Mexico, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 109-114, 13 figs.

Austin, George S.

1976 Potash in New Mexico: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1975-76, p. 23-29, 5 figs.

1978 (compiler) Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas: New Mexico Bureau Mines Mineral Resources, Circ. 159, 88 p., 16 tables, 73 figs.

1980 Potash in New Mexico: New Mexico Geology, v. 2, no. 1, p. 7-9, 5 figs.

1976 (and Leininger, R. K.) The effect of heattreating sedimented mixed-layer illite-smectite as related to quantitative clay mineral determinations: Jour. Sed. Petrology, v. 46, p. 206–215

1976 (and Weber, R. H.) Perlite operations in New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 564-565

1976 (and Whyte, M. R.) Potash deposits of southeastern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 565 see Foster, R. W., Austin, and others, 1977; Siemers, W. T., and Austin, 1971a,b; Siemers, W. T., Austin, and Kottlowski, 1980; and Siemers, W. T., Hawley, and others, 1978

Austin, Lynn A.

1977 (Capener, W. N., Catlet, L. B., and others) Socio-economic impacts of coal mining on communities in northwestern New Mexico: New Mexico State Univ., Agric. Exp. Station, Bull. 652, 118 p., 84 tables, 2 figs., 1 appendix

Austin, S. Ralph

1979 Dissolution and authigenesis in host sandstones, *abs. in* Grants uranium region, a symposium: Am. Assoc. Petroleum Geologists, Program, p. 8; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 686

1980 Dissolution and authigenesis of feldspars, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 107-115, 18 figs.

Axelrod, Daniel I.

1976 (and Bailey, H. P.) Tertiary vegetation, climate, and altitude of the Rio Grande depression, New Mexico-Colorado: Paleobiology, v. 2, no. 3, p. 235-254, 4 tables, 8 figs.

Baars, Donald L.

1979a Developments in Four Corners-intermountain area in 1978: Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 8, p. 1206–1209, 2 tables, 1 fig.

1979b (editor) Permianland: Four Corners Geol. Soc., Guidebook 9th field conf., 186 p.

1979c The Permian System, in Permianland, D. L. Baars, editor: Four Corners Geol. Soc., Guidebook, 9th field conf., p. 1-6

1979d The Colorado Plateau aulacogen—key to continental-scale basement rifting: 2nd Internat. Conf. on New Basement Tectonics, Proc., p. 157–163

1980 Developments in Four Corners-intermountain area in 1979: Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 9, p. 1340-1344, 2 tables, 1 fig.

1977 (and Stevenson, G. M.) Permian rocks of the San Juan Basin: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 133-138, 4 figs.

1979 (and Stevenson, G. M.) Permian rocks of the San Juan Basin, *in* Permianland, D. L. Baars, editor: Four Corners Geol. Soc., Guidebook 9th field conf., p. 59-63

see Stevenson and Baars, 1977

Babcock, G.

1978 Pump Mesa Fruitland (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 472-473, 2 figs.

Babcock, Jack A.

1977 Calcareous algae, organic boundstones, and the genesis of the upper Capitan Limestone (Permian, Guadalupian), Guadalupe Mountains, west Texas and New Mexico: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 1, p. 3-44

1979 Calcareous algae and algal problematica of the Capitan reef (Permian), Guadalupe Mountains, west Texas and New Mexico, in Symposium international sul les algues fossils: Centre Recherches Pau, Bull., v. 3, no. 2, p. 419-428

1977a (Pray, L. C., and Yurewicz, D. A.) Locality guide, stop I, upper Capitan-massive, mouth of Walnut Canyon: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 2, p. G17-G39

1977b (Pray, L. C., and Yurewicz, D. A.) Locality guide, stop III, mouth of Slaughter Canyon, northeast side, upper Capitan foreslope: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 2, p. G51-G55

1978 (and Yurewicz, D. A.) Syndepositional submarine cementation of Capitan Limestone (Permian), Guadalupe Mountains, west Texas and New Mexico—nature and origin of cements (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 573

Babcock, Laurel C.

1977 Life in the Delaware Basin—the paleoecology of the Lamar Limestone: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 1, p. 357-389 see Ormiston and Babcock, 1979

Babcock, R. E.

1978 (Carruthers, G., Dantin, E. J., Edmison, M. T., and Powers, W. L.) Analysis of priority water resources problems for the southern plains region (abs.): Sel. Water Resources Abs., v. 11, no. 14, p. 84-85

Babcock, R. S.

1979 Evolution of middle Proterozoic magmatic rocks in the southwestern United States (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 3, p. 67

Baca, Phillip

see Schufle, Baca, and others, 1976

Bache, Thomas C.

1978 (Rodi, W. L., and Harkrider, D. G.) Crustal structures inferred from Rayleigh-wave signatures of NTS explosions: Seismol. Soc. America, Bull., v. 68, no. 5, p. 1399-1413, 9 figs.

Bachhuber, Frederick W.

1976 (and McClellan, W. A.) Occurrence and significance of foraminifera in a pluvial sequence (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 565-566

1977 (and McClellan, W. A.) Paleoecology of marine foraminifera in the pluvial Estancia Valley, central New Mexico: Quaternary Research, v. 7, no. 2, p. 254–267

Bachman, George O.

1976a Cretaceous rocks in the area of Madrid coal field, New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 154, p. 41-43, 2 figs.

1976b Geologic map of the Madrid quadrangle, Santa Fe and Sandoval Counties, New Mexico: U.S. Geol. Survey, Geol. Quad. Map 1268, scale 1:62,500

1976c Cenozoic deposits of southeastern New Mexico and an outline of the history of evaporite dissolution: U.S. Geol. Survey, Jour. Research, v. 4, no. 2, p. 135–149, 2 tables, 8 figs.; Sel. Water Resources Abs., v. 9, no. 18, p. 15

1980 Regional geology and Cenozoic history of

Pecos region, southeastern New Mexico: U.S. Geol. Survey, Open-file Rept. 80-1099, 120 p.

1979a (and Izett, G. A.) Dissolution history, southeastern New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 70

1979b (and Izett, G. A.) Dissolution history of evaporite beds defined (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 267

1978 (and Mehnert, H. H.) New K-Ar dates and the late Pliocene to Holocene geomorphic history of the central Rio Grande region, New Mexico: Geol. Soc. America, Bull., v. 89, no. 2, p. 283-292, 1 table, 4 figs.

see Hawley, Bachman, and Manley, 1976; Hayes and Bachman, 1979; Machette and Bachman, 1978; and Mapel and others, 1979

Baghdad, Flih

1976 Stratigraphy of preliminary microfacies study of the Osage (Mississippian) bioherms of the Lake Valley Formation, Bishop Cap Hills, Doña Ana County, New Mexico, *in* Stratigraphy and structure of the Franklin Mountains: El Paso Geol. Soc., p. 35-44, 7 figs.

Bahlburg, William C.

1977 Depositional environments of the Tamaroa sequence (Mississippian) of southeastern Arizona, southwestern New Mexico, and northern Mexico: M.S. thesis, Arizona State Univ., 214 p.

1976 (and Silver, B. A.) Depositional environments of Tamaroa sequence (Upper Devonian and Mississippian), Pedregosa Basin, southeastern Arizona, southwestern New Mexico, northeastern Sonora, and northwestern Chihuahua (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 60, p. 646-647

Bailey, Harry P.

see Axelrod and Bailey, 1976

Bailey, O. F.

see Neher and Bailey, 1976

Bailey, Roy A.

1976 On the mechanisms of postsubsidence central doming and volcanism in resurgent cauldrons (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 567

1978 (and Smith, R. L.) Volcanic geology of the Jemez Mountains, New Mexico, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 184–196, 17 figs.

see Smith, R. L., and others, 1978

Baird, Charles W.

1979 (and Martin, K. W.) Saint Anthony mine, *abs.* in Grants uranium region, a symposium: Am. Assoc. Petroleum Geologists, Program, p. 8

1980 (Martin, K. W., and Lowery, R. M.) Comparison of braided-stream depositional environment and uranium deposits at Saint Anthony underground mine, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 292-298, 4 figs.

Baker, L. E.

see Newsom and others, 1978

Balagna, J. P.

1978 (Beddoe, T. A., Binder, I., Gancarz, A. J., Vidale, R. J., and Williams, R. A.) Analysis of hot

dry rock and circulating water (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1225

1977 (West, F. G., Pettitt, R. A., Laughlin, A. W., and Charles, R. W.) Status of the Los Alamos experiment to extract geothermal energy from dry hot rock (abs.): Geology, v. 5, no. 4, p. 237-240

see Brookins, Della Valle, and Balagna, 1979; Charles, West, and others, 1977; Helmick and others, 1976; Laughlin, West, and others, 1977; and Potter, J. M., and others, 1976

Balazs, E. I.

see Reilinger, Oliver, Brown, and others, 1979 Balch, W. J.

1978 (and Clark, J. W.) Pueblo water rights on the upper Rio Grande: New Mexico State Univ., Water Resources Research Inst., Rept. 098, 86 p., 4 tables, 3 figs.; Natl. Tech. Inf. Serv., Rept. PB-291 392, 86 p.; Sel Water Resources Abs., 1979, v. 12, no. 6, p. 78

Baldridge, W. Scott

1976 Petrology of an ultramafic xenolith/xenocryst suite from the northern Rio Grande rift, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 567-568

1977 Petrology of Plio-Pleistocene basaltic rocks from the central Rio Grande rift (New Mexico, U.S.A.) and their relation to rift structure, *in* Petrology and geochemistry of continental rifts, E. R. Neumann and I. B. Ramberg, editors: NATO Advanced Study Inst. Ser., Ser. C., Mathematical and Physical Sci., v. 36, p. 71-78

1978 Petrology and petrogenesis of basaltic lavas of the central Rio Grande rift, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 16-17

1979a Petrology and petrogenesis of Plio-Pleistocene basaltic rocks from the central Rio Grande rift, New Mexico, and their relation to rift structure, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 323–353, 4 tables, 14 figs.

1979b Petrology and petrogenesis of basaltic rocks and their inclusions—studies from the Rio Grande rift, the Roman comagmatic province, and Oceanus Procellarum: Ph.D. thesis, California Inst. Tech., 336 p.

1979c Mafic and ultramafic inclusion suites from the Rio Grande rift (New Mexico) and their bearing on the composition and thermal state of the lithosphere: Jour. Volcanology and Geothermal Research, v. 6, no. 3-4, p. 319-351; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487-C, p. 15-16

1979d Lineament tectonics and the role of preexisting structure on the Rio Grande rift (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 46, p. 954

1980 (Damon, P. E., Shafiqullah, M., and Bridwell, R. J.) Evolution of the central Rio Grande rift, New Mexico—new potassium-argon ages: Earth and Planet. Sci. Letters, v. 51, no. 2, p. 309–321, 2 tables, 3 figs.

1980 (Perry, F. V., and Gladney, E. S.) Petrology of the Cat Hills and Lucero volcanic fields of central New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1141

see Bridwell and Baldridge, 1976

Balestri, R. J.

1979 (Torres, B. W., Pahwa, S. B., and others) Preliminary safety assessment of the WIPP facility, in Scientific basis for nuclear waste management, G. J. McCarthy, editor: New York, Plenum Press, v. 1, p. 513-520

Ballance, Wilber C.

1976 Ground water resources of the Holloman Air Force Base well field area, 1967, New Mexico: U.S. Geol. Survey, Open-file Rept. 76–807, 128 p., 7 tables, 10 figs., 5 pls.

Baltz, Elmer H.

1978 Résumé of Rio Grande depression in northcentral New Mexico, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 210–228, 8 figs.

1979 Tectonics of southern Rocky Mountains, New Mexico, 134 years of study (abs.): New Mexico Geology, v. 1, no. 4, p. 61

1980a (and O'Neill, J. M.) Preliminary geologic map of the Mora River area, Sangre de Cristo Mountains, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-374, scale 1:24,000

1980b (and O'Neill, J. M.) Preliminary geologic map of the Sapello River area, Sangre de Cristo Mountains, Mora and San Miguel Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-398, 22 p., scale 1:24,000

see Armstrong, A. K., Kottlowski, and others, 1980

Banaszynski, D. K.

1979 (DeCicco, D. A., and Patterson, E. D.) Leasable mineral and waterpower land classification map of the Tularosa quadrangle, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-733, scale 1:250,000

1980 Six-state High Plains-Ogallala aquifer area regional study, *in* Western water resources symposium proceedings: Boulder, Colorado, Westview Press, p. 44-66

Barker, Colin

Banks, H. O.

1976 Gas content of quartz from the GT-2 geothermal test hole, Fenton Hill, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 353

Barker, Daniel S.

1977 Northern Trans-Pecos magmatic province—introduction and comparison with the Kenya rift: Geol. Soc. America, Bull., v. 88, no. 10, p. 1421-1427, 5 tables, 9 figs.

1979a Cenozoic magmatism in the Trans-Pecos province—relation to the Rio Grande rift, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 382-392, 7 figs.; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487-C, p. 18-19

1979b Magmatic evolution in the Trans-Pecos province, in Cenozoic geology of Trans-Pecos volcanic field of Texas, A. W. Walton, editor: Univ. Texas (Austin), Bureau Econ. Geology, Guidebook 19, p. 4-9

1977 (and Hodges, F. N.) Mineralogy of intrusions in the Diablo Plateau, northern Trans-Pecos mag-

matic province, Texas and New Mexico: Geol. Soc. America, Bull., v. 88, no. 10, p. 1428-1436, 5 tables, 7 figs.

1977 (Long, L. E., Hoops, G. K., and Hodges, F. N.) Petrology and Rb-Sr isotope geochemistry of intrusions in the Diablo Plateau, northern Trans-Pecos magmatic province, Texas and New Mexico: Geol. Soc. America, Bull., v. 88, no. 10, p. 1437-1446, 5 tables, 9 figs.

Barker, Fred

1976 (Arth, J. G., Peterman, Z. E., and Friedman, Irving) The 1.7- to 1.8-b.y.-old trondhjemites of southwestern Colorado and northern New Mexico—geochemistry and depths of genesis: Geol. Soc. America, Bull., v. 87, no. 2, p. 189-198, 9 figs.

1976 (Friedman, Irving, Hunter, D. R., and Gleason, J. D.) Oxygen isotopes of some trondhjemites, siliceous gneisses, and associated mafic rocks: Precambrian Research, v. 3, no. 6, p. 547-557, 1 table, 1 fig.

Barnard, Ralston W.

see Bivens and others, 1979

Barnes, John J.

see Roberts and others, 1976

Barnett, J. H.

see Newsom and others, 1978

Barone, William E.

see Jacka, Barone, and others, 1980

Barr, G. E.

1980 (and Gonzalez, D. D.) Current status of the hydrogeology for the WIPP: Univ. California, Lawrence Berkeley Lab., Rept. 11204, p. 89-94

1979 (Lambert, S. J., and Carter, J. A.) Uranium isotope disequilibrium in groundwaters of southeastern New Mexico and implications regarding agedating of waters: Internat. Atomic Energy Agency, Proc. Ser. STI/PUB/493, p. 645-660

Barreto, Armando

1978 Aspects of petroleum evaluation from geophysical log in Paduca Delaware field, Lea County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech.

Barrett, Michael E.

1979 (and Kirschner, C. E.) Depositional systems in the Rinconada formation (Precambrian), Taos County, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 121-126, 6 figs.

Barrie, Ferdinand J.

1976a Gravimetric survey of south-central New Mexico-west Texas: M.S. thesis, Univ. Texas (El Paso)

1976b A Bouguer gravity anomaly map of the Franklin Mountains, New Mexico and Texas, *in* Stratigraphy and structure of the Franklin Mountains: El Paso Geol. Soc., p. 161-163

Barrows, L. J.

1980 Geophysical studies of evaporites in the northern Delaware Basin (abs.): Am. Assoc. Petroleum Geologists, Southwest Sec., Ann. Mtg., Program, p. 16

Barton, Larry

see Gosz and others, 1978

Basu, Ashish R.

1978 Trace elements and Sr-isotopes in some mantle-derived hydrous minerals and their signif-

icance: Geochim. et Cosmochim. Acta, v. 42, no. 6A, p. 659-668, 1 table, 3 figs.

see Saito, Basu, and others, 1977

Bateman, Jennifer

see Reid, Bateman, and others, 1977

Bath, Gordon D.

1976 Interpretation of magnetic surveys in intermontane valleys of Nevada and southern New Mexico: U.S. Geol. Survey, Open-file Rept. 76-440, 37 p., 2 tables, 16 figs.

1977 Aeromagnetic maps with geologic interpretations for the Tularosa Valley, south-central New Mexico: U.S. Geol. Survey, Open-file Rept. 77-258, 16 p., 9 figs., 12 sheets, scales 1:62,500 and 1:400,000

1977 (Healey, D. L., and Karably, L. S.) Combined analysis of gravity and magnetic anomalies at Tularosa Valley, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 3-4

Bawiec, W. J.

see Drew and others, 1979a,b

Bayliss, Geoffrey S.

see Cernock and Bayliss, 1977

Beach, Laura J.

1978 (and Jentgen, R. W.) Coal test drilling for the San Juan mine extension, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 78–960, 87 p., 4 tables, 1 fig.

1978 (and Thomas, D. M., Jr.) Chacon Dakota (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 263–265, 5 figs.

Beane, Richard E.

1980 The evolutionary nature of alteration mineralization, and fluid characteristics in intrusion-related porphyry copper deposits of the southwestern United States (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 384

1980 (and others) Temporal variations in fluid characteristics from some porphyry copper deposits of southern Arizona and New Mexico, U.S.A.: 26th Internat. Geol. Congr., Abs., v. 3, p. 904

see Reynolds, T. J., and Beane, 1979

Beard, H. R.

1980 (Salisbury, H. B., and Shirts, M. B.) Absorption of radium and thorium from New Mexico uranium mill tailing solutions: U.S. Bureau Mines, Rept. Inv. 8463, 14 p.

Beatty, William B.

see Dolphin and others, 1978

Beaumont, Edward C.

1979 Geology of the Cerrillos coal field, Santa Fe County, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 269-274, 3 figs.

1977 (and Shomaker, J. W.) Geometry of coal beds in San Juan Basin, New Mexico: Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 5, p. 765

1976 (Shomaker, J. W., and Stone, W. J., compilers) Guidebook to coal geology of northwest New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 154, 58 p., 2 tables, 49 figs.

see Kottlowski, Beaumont, and Shomaker, 1976, 1977; and Speer and others, 1977

Beck, R. G.

1980 (Cherrywell, C. H., Earnest, D. F., and Feirn,

W. C.) Jackpile-Paguate deposit—a review, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 269–275, 2 tables, 9 figs.

Beck, Ray H.

1977 Atoka Morrow west (gas) field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 44–45, 1 table, 1 fig.

Becker, R. W.

1977a Cabin Lake Morrow field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 68–69, 1 table, 1 fig.

1977b Cabin Lake Strawn field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 70, 1 table

1977c Vacuum Morrow field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 210–211, 1 table, 1 fig.

Beckhart, R.

see Schufle, Mega, and Beckhart, 1979

Beckman, R. J.

see Aamodt, Hansel, and others, 1977

Beddoe, T. A.

see Balagna, Beddoe, and others, 1978

Beers. Charles A.

1976 Geology of the Precambrian rocks of the southern Los Pinos Mountains, Socorro County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech.

Behnken, Fred H.

1977 Conodont determinations, *in* Geology, petroleum source rocks, and thermal metamorphism in KCM No. 1 Forest Federal well, Hidalgo County, New Mexico, S. Thompson, III, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 152, p. 25-28, 1 table, 1 fig.

Bejnar, Craig R.

1976 (and Lessard, R. H.). Paleocurrents and depositional environments of the Dakota group, San Miguel and Mora Counties, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 157–163, 1 table, 1 fig.

Bejnar, Katharine C.

see Bejnar, W., and Bejnar, 1979

Bejnar, Waldemere

1979 (and Bejnar, K. C.) Structural geology related to the Montezuma Hot Springs, Montezuma, New Mexico: New Mexico Geology, v. 1, no. 2, p. 21-24, 1 table, 4 figs.

see Lessard and Bejnar, 1976

Belcher, Robert C.

1977 (and Galloway, W. E.) Evidence for Early Tertiary Rio Grande drainage (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 5

Belkin, H. E.

see Roedder and Belkin, 1979

Bendix Field Engineering Corporation

1980a Survey of lands held for uranium exploration, development, and production in fourteen western states in the six-month period ending June 30, 1979: U.S. Dept. Energy, Rept. GJBX-6-80, 20 p.

1980b Survey of lands held for uranium exploration, development, and production in fourteen western states in the six-month period ending Dec. 31, 1979: U.S. Dept. Energy, Rept. GJBX-82-80, 20 p.

Benninger, L. K.

see Nozaki, DeMaster, Benninger, and others, 1977 Berg, Robert R.

1978 Comparison of turbidite sandstone reservoirs—Canyon Group of Val Verde Basin, Wilcox Group of south Texas, and Bell Canyon Formation of Delaware Basin (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 495-496

1979a Oil and gas in delta-margin facies of Dakota Sandstone, Lone Pine field, New Mexico: Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 6, p.

886-904, 2 tables, 12 figs.

1979b Reservoir sandstone of the Delaware Mountain Group, southeast New Mexico, *in* Guadalupian Delaware Mountain Group of west Texas and southeast New Mexico, N. M. Sullivan, editor: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., p. 75-95

1978 (and Ahr, W. M.) Turbidite origin for anhydrite dolomite in Bell Canyon Formation, Delaware Basin, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 496

Bergquist, Lyle E.

see Devoto, Mead, Bergquist, and Martin, 1977; and Devoto, Mead, Martin, and Bergquist, 1980

Berkeley, John L.

1979 (and Callender, J. F.) Precambrian metamorphism in the Placitas-Juan Tabo area, northwestern Sandia Mountains, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 181-188, 1 table, 5 figs.

1976 (Callender, J. F., and Keil, Klaus) Placitas-Juan Tabo contact metamorphic aureole—evidence for progressive dynamothermal evolution through time (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 776

Berman, David S.

1976 Occurrence of *Gnathorhiza* (Osteichthyes: Dipnoi) in aestivation burrows in the Lower Permian of New Mexico with description of a new species: Jour. Paleontology, v. 50, no. 6, p. 1034–1039, 4 figs.

1977 A new species of *Dimetrodon* (Reptilia, Pelycosauria) from a non-deltaic facies in the Lower Permian of north-central New Mexico: Jour. Paleontology, v. 51, no. 1, p. 108–115

1979 Gnathorhiza bothrotreta (Osteichthyes: Dipnoi) from the Lower Permian Abo Formation of New Mexico: Carnegie Museum, Annals, v. 48, p. 211-230, 7 figs.

1980 (and Reisz, R. R.) New species of *Trimero-rhachis* (Amphibia, Temnospondyli) from the Lower Permian Abo Formation of New Mexico, with discussion of Permian faunal distributions in that state: Carnegie Museum, Annals, v. 49, no. 24, p. 455-485

Berman, Robert G.

1976 (and Reid, J. B., Jr.) The deep-seated evolution of highly undersaturated basaltic magmas—evidence from kaersutite-gabbro inclusions, west Potrillo Mts., New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 54, no. 4, p. 354-355

Berry, Robert Chapman

1976 Mid-Tertiary volcanic history and petrology of the White Mountain volcanic province, southeastern Arizona (western New Mexico): Ph.D. thesis, Princeton Univ., 385 p.

Bersch, Michael

1977 Development of the Riley maar crater, south-central Doña Ana County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 6

Best, James R.

1973 Stratigraphy, sedimentology, and uranium geology of the Francis Mesa area, McKinley County, New Mexico: M.S. thesis, Colorado School Mines

Betancourt, Julio L.

1980 (and Van Devender, T. R.) Late Quaternary vegetational history of Chaco Canyon, New Mexico: Am. Quaternary Assoc., Prog. and Abs., 6th ann. mtg., p. 23-24

Bettis, Patricia K.

1977 Petrography and geochemistry of some hydrogrossular garnets from Orogrande, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 7

Bickford, David A.

1980 Economic geology in the Jones Camp iron deposit, Socorro County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 226 p.

Bickham, R. E.

see Sanyal and others, 1979

Bieberman, Robert A.

1976 Oil and gas, in Legislative energy report, taxes and revenues: New Mexico Legislative Energy Comm., v. 2, pt. II, p. 41-83

1979 Ft. Selden and Leasburg—New Mexico State Park series: New Mexico Geology, v. 1, no. 3, p. 41-42, 2 figs.

Bierei, Gregg R.

1977 The environment and coal development in the San Juan Basin, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 77-82, 8 figs.

Bikerman, Michael

1976 Initial Sr*7/Sr*6 ratios and K-Ar dates of some volcanic rocks from Catron County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 569

Bikun, James V.

1980 (Christiansen, E. H., Sheridan, M. F., and Burt, D. M.) Characteristics associated with mineralization in topaz rhyolites (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 387

see Burt, Bikun, and Christiansen, 1980; and Christiansen, E. H., and others, 1980

Binder, I.

see Balagna, Beddoe, and others, 1978

Birch, Francis S.

1980 Gravity study of the Albuquerque Basin, Rio Grande rift, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 267

Bircher, John E.

1978a Four Corners Paradox (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 300-303, 4 figs.

1978b Gallegos Fruitland, south (gas), in Oil and

gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 314-316, 4 figs.

1978c Hospah Upper Sand (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 344-346, 4 figs.

Bird, P.

1979 Continental delamination and the Colorado Plateau: Jour. Geophys. Research, v. 84, no. B13, p. 7561-7571

Bisdorf, Robert J.

see Zohdy and others, 1976

Bivens, Hugh M.

1980 (Jensen, D. H., Barnard, R. W., and Stephenson, W. A.) Direct measurement of uranium by prompt-fission neutron method of pulsed-neutron borehole logging, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 390-395, 10 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 8; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 686

Bivins, R. L.

see Tester, Morris, and others, 1979

Black and Veatch, Consulting Engineers

1976 Report on the digital modeling of the Buckman well field [Santa Fe County]: Black and Veatch, consult. rept. to Public Serv. Co. New Mexico, 20 p.

Black, Bruce A.

1976a Tectonic and structural implications of the geology of the northern and eastern parts of the Otero platform, Otero and Chaves Counties, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 569-570

1976b Tectonics of the northern and eastern parts of the Otero platform, Otero and Chaves Counties, New Mexico, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 39-45, 4 figs.

1978a Blackeye Dakota (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 216–217, 1 fig.

1978b Blackeye Mesaverde (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 218–219, 1 fig.

1978c Chaco Wash Mesaverde (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 260–262, 1 fig.

1978d Red Mountain Mesaverde (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 474-476, 4 figs.

1978e Seven Lakes Menefee (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 486-487, 3 figs.

1979a Oil and gas potential of Santa Fe embayment, Santa Fe County, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 5, p. 822

1979b Supplemental road log no. 1, Diamond Tail fault area: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 42-43

1979c Structure and stratigraphy of the Hagan embayment-a new look: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 101-105, 3 figs.

1979d Oil and gas exploration in the Santa Fe-Galisteo-Hagan area of New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 275-279, 1 table, 4 figs.

see Fassett, Black, and others, 1977; Fassett, Jentgen, and others, 1977; Fassett, Molenaar, and others, 1977; and Woodward, Ingersoll, Fitch, and others, 1979

Black, Ken D.

1977a Geology and uranium mineralization of the Cone Peak rhyolite, Lincoln County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 6, p. 709

1977b Petrology, alteration, and mineralization of two Tertiary intrusives, Sierra Blanca igneous complex, New Mexico: M.S. thesis, Colorado State Univ.

Blagbrough, John W.

1976 Rock glaciers in the Capitan Mountains, south-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 570-571

Blair, Jess

1976 Santa Rosa aquifer holds no promise for irrigators: Irrig. Age, July-August, p. 38

Blakestad, Robert B., Jr.

1977 Geology of the Kelly mining district, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 43, 139 p., 17 figs., 2 sheets; M.S. thesis, Univ. Colorado, 1978 see Siemers, W. T., and Blakestad, 1976

Blakey, Ronald C.

1978 Pennsylvanian and Lower Permian paleogeography and paleotectonics of the southern Colorado Plateau (abs.): Geol. Soc. America, Abs., v. 20, no. 3, p. 96

1979 Lower Permian stratigraphy of the southern Colorado Plateau, in Permianland, D. L. Baars, editor: Four Corners Geol. Soc., Guidebook 9th field conf., p. 115-129

1980 Pennsylvanian and Early Permian paleogeography, southern Colorado Plateau and vicinity (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 677

Blanchard, Douglas P.

see David, W. P., and others, 1980; Phelps, Blanchard, and others, 1979; and Phelps, Blanchard, and Stormer, 1980

Blankenship, Joe T.

1977 East Morton Wolfcamp field, Lea County, New Mexico, in Oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 140-141, 1 table, 1 fig.

Blatz, L. A.

see Aamodt, Blatz, and others, 1978; and Holley and others, 1978

Boden, David R.

1980 Cooling unit stratigraphy and petrography of the Tshirege Member of the Bandelier Tuff, southeastern Jemez Mountains, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 268

Bodenlos, A. J.

1978 Solution features in Delaware Basin evaporites, abs. in Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 87

Bodine, Marc W., Jr.

1978 Clay-mineral assemblages from drill core of Ochoan evaporites, Eddy County, New Mexico, in Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 21-31, 4 tables, 7 figs.

1979 (and Laskin, J. P.) Aluminum-deficient silicate residues from polyhalite beds in the Salado Formation, Carlsbad potash district, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 390

Bodvarsson, G. S.

1980 (and others) Preliminary studies of the reservoir capacity and longevity of the Baca geothermal field, New Mexico: Univ. California, Lawrence Berkeley Lab., Energy and Environ. Div., Rept. 10686, p. 98-103

Boerngen, Josephine G.

see Hinkley and others, 1980a,b

Bohor, Bruce F.

1977 Tonsteins as correlation tools and environmental indicators of Rocky Mountain coals (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 6, p. 710-711

1976 (and Pillmore, C. L.) Tonstein occurrences in the Raton coal field, Colfax County, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 177-183, 13 figs.

Bolivar, Stephen L.

1978 Uranium hydrogeochemical and stream sediment reconnaissance of the Aztec NTMS quadrangle. New Mexico: U.S. Dept. Energy, Rept. GJBX-129-78, 75 p.

1980 (and others) Uranium hydrogeochemical and stream sediment reconnaissance data release for the Santa Fe NTMS quadrangle, New Mexico, including concentrations of forty-two additional elements: Los Alamos Sci. Lab., Rept. 8014, 135 p.; U.S. Dept. Energy, Rept. GJBX-197-80

see Maassen, Bolivar, and others, 1979

Bolton, William R.

1976 Precambrian geochronology of the Sevillita metarhyolite and the Los Pinos, Sepultura, and Priest plutons of the southern Sandia uplift, central New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 57 p.

see Brookins, Bolton, and Condie, 1980

Book, Gerald W.

1977 Eagle Creek field, Eddy County, New Mexico, in The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 92-93, 1 table, 1 fig.

Booth, Franklin O., III

1976 Geology of the Galisteo Creek area, Lamy to Cañoncito, Santa Fe County, New Mexico: M.S. thesis, Colorado School Mines

1977 Geologic map of the Galisteo Creek area, Lamy to Cañoncito, Santa Fe County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-823, scale 1:12,000

Bornhorst, Theodore J.

1976 Volcanic geology of the Crosby Mountains and vicinity, Catron County, New Mexico: M.S. thesis, Univ. New Mexico, 113 p.

1980 Major- and trace-element geochemistry and mineralogy of Eocene to Quaternary volcanic rocks of the Mogollon-Datil volcanic field, southwestern New Mexico: Ph.D. thesis, Univ. New Mexico, 1108

1978 (and Elston, W. E.) Reserve to Magdalena via Horse Springs and Datil, in Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 99-106, 6 figs.

1980 (Elston, W. E., and Della Valle, R. S.) Distribution of uranium in mid-Tertiary volcanic rocks, Mogollon-Datil volcanic field, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Southwest Sec., Ann. Mtg., Program, p. 17

see Elston and Bornhorst, 1978, 1979; and Lopez and Bornhorst, 1979

Borton, Robert L.

1976 Papers and publications pertaining to ground water in New Mexico published or released to the open-file in 1974, with additions from 1948-73, in Ground water levels in New Mexico: New Mexico State Engineer, basic data rept., p. 107-112

1978 Bibliography of ground-water studies in New Mexico, 1873-1977: New Mexico State Engineer, spec. pub., 121 p.

1979a Enigmatic quartzite piles of La Tierra-Las Dos subdivisions area, Santa Fe County, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 289-291, 2 tables, 4 figs.

1979b Bibliography of studies dealing with ground water in Santa Fe County, 1886-1979: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 307-309

1980 Bibliography of ground-water studies in New Mexico, 1848-1979: New Mexico State Engineer, spec. pub., 46 p.

1976 (and Jones, D. M.) A bibliography of papers and publications pertaining to ground water in New Mexico published or released to the open-file in 1975, with additions from 1886-1974, in Ground water levels in New Mexico, 1975: New Mexico State Engineer, basic data rept., p. 105-128

1978 (and Jones, D. M.) A bibliography of papers and publications pertaining to ground water in New Mexico published or released to the open file in 1976, with additions from 1873-1975: New Mexico State Engineer, basic data rept., p. 139-184

Bowman, K. C.

1978a Los Pinos Fruitland, north (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 390-392, 4 figs.

1978b Los Pinos Fruitland, south (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and

others, editors: Four Corners Geol. Soc. p. 393-394, 4 figs.

Bowring, Samuel A.

1980 The geology of the west-central Magdalena Mountains, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 120, 135 p., 1 table, 14 figs., 2 sheets, scale 1:25,000; M.S. thesis, New Mexico Inst. Mining and Tech.

Boyd, J. S.

1976 Report of ground-water supply investigation, Cebolleta Grant, Seboyeta, New Mexico: consult. rept. to Board Trustees, Cebolleta Grant, 12 p.

Brackbill, R. M.

1964 (and Gaines, J. C.) El Capitan source water system: Jour. Petroleum Tech., v. 16, no. 12, p. 1351-1356, 1 table, 2 figs.

Bracken, R. E.

see Cape and others, 1980

Brackenridge, G. Robert

1976 Flow indices—a means to quantitatively compare seasonal mean flows in ungauged intermittent streams (abs.): Geol. Soc. America, Abs. with Prog., v. 8, no. 5, p. 571-572

Bradley, Reta

see Stout and Bradley, 1980

Brady, B. T.

1977 (and Rice, R. S.) Helium determinations as an exploration technique in the Ambrosia Lake uranium district, McKinley County, New Mexico: U.S. Geol. Survey, Open-file Rept. 77-669, 8 p., 1 fig.

Braile, L. W.

see Keller, G. R., and Braile, 1979; and Keller, G. R., Braile, and Schlue, 1979

Brandvold, Donald K. see Brandvold, L. A., and others, 1980

Brandvold, Lynn A.

1977 Mercury in New Mexico surface waters: New Mexico Bureau Mines Mineral Resources, Circ. 162, 16 p., 1 table, 2 figs., color sheet in pocket, scale 1:1,000,000

1980 (Brandvold, D. K., and Popp, C. J.) Effects of uranium mining and milling on surface water in New Mexico (abs.): Energy and the Environment, 7th Natl. Conf.

see Dauchy and Brandvold, 1976

Brannen, Joseph P.

1979 WIPP safety assessment: Geological Disposal Nuclear Waste, no. 19, p. 81-85, 3 tables

Brautigam, Gerald L.

1979 Faulting in the Silver City Range, Grant County, New Mexico: M.S. thesis, Univ. Houston

1980 (and Norman, C. E.) Faulting in the Silver City range, Grant County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 268

Brenner, M. G.

1979 Sedimentary features in base surge tuffs, Kilbourne Hole, Potrillos Mountains, Doña Ana County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 6, p. 267

see Stuart and Brenner, 1979

Brenner, R. L.

see Wright, R. P., and others, 1977

Brenner-Tourtelot, Elizabeth F.

1979 (and Machette, M. N.) The mineralogy and

geochemistry of lithium in the Popotosa Formation, Socorro County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-839, 27 p., 5 figs.

Brewer, J.

see Brown, L. D., Brewer, and others, 1978; Schilt and others, 1978

Brewer, L. W.

1974 Environmental monitoring report for Sandia Laboratories for 1973 (abs.): Sel. Water Resources Abs., v. 7, no. 23, p. 55

Brezina, James L.

1977a Cerca Upper Pennsylvanian field, Lea County, New Mexico, in The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 80-81, 1 table, 1 fig.

1977b Cerca Lower Wolfcamp field, Lea County, New Mexico, in The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 82, 1 table

see Cys, Brezina, and Greenwood, 1977; and Cys, Greenwood, and Brezina, 1976

Bridwell, R. Joe

1976 Lithospheric thinning and the late Cenozoic thermal and tectonic regime of the northern Rio Grande rift: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 283-292, 1 table, 6 figs.

1977 Mechanisms of rifting, heat flow, and mantle convection (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 8

1978 Physical behavior of upper mantle beneath northern Rio Grande rift, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 228-230, 2 figs.

1980 (and Anderson, C. A.) Thermomechanical models of the Rio Grande rift, in Mechanisms of continental drift and plate tectonics, P. A. Davies, editor: London, Academic Press, p. 41-59

1976 (and Baldridge, W. S.) Thermal models from regional heat flow in the northern Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 572

see Baldridge, Damon, and others, 1980; Olsen, K. H., Cash, and Bridwell, 1976; and Pearson and others, 1980

Brierley, Corale L.

1977 Biogenic extraction of uranium from ores of the Grants region, in Proceedings of the international symposium on metallurgical applications of bacterial leaching and related microbiological phenomena, L. E. Murr, A. E. Torma, and J. H. Brierley, editors: New York, Academic Press, p. 345-363

1979 Microbiology and mining-practices and problems: New Mexico Geology, v. 1, no. 3, p. 33-36, 40, 1 fig.

Brimhall, Ron M.

1978 Reserves of heavy oil from the Santa Rosa Sandstone: Interstate Oil Compact Comm., Comm. Bull., v. 20, no. 2, p. 54-60

Bristol, A.

see Miyamoto and others, 1977

Broadhead, Ronald F.

see Budding and Broadhead, 1977a-c

Brocher, Thomas M.

1978 Analysis of a magma body reflection of Abo Pass, New Mexico, COCORP data (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 4, p. 390

1979a Geometry and physical properties of a magma body in the Rio Grande rift from COCORP data (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 396

1979b Shallow velocity structure near Socorro, New Mexico, using COCORP seismic reflection data: Stanford Univ. Pub., Geological Sciences, v. 17, p. 26 - 30

1980 Reflectivity analysis of multichannel seismic reflection data with applications to COCORP Rio Grande rift survey: Ph.D. thesis, Princeton Univ., 176 p.

see Jurdy and Brocher, 1980

Brod. Robert C.

1979 Hydrogeology and water resources of the Ambrosia Lake-San Mateo area, McKinley and Valencia Counties, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech.

see Stone, W. J., Brod, and Anderholm, 1978

Brookins, Douglas G.

1976a The Grants mineral belt, New Mexicocomments on the coffinite-uraninite relationship, probable clay mineral reactions, and pyrite formations, in Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 158-166, 2 tables, 5 figs.

1976b Uranium deposits of the Grants, New Mexico, mineral belt, pt. I: U.S. Energy Research and Develop. Adm., Rept. GJO-1636-1, 120 p.

1976c Position of uraninite and/or coffinite accumulations to the hematite-pyrite interface in sandstone-type deposits: Econ. Geology, v. 71, no. 5, p. 944-948

1977a Upper Cretaceous black sand deposits of the San Juan Basin, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, Supplement, p. 31-33, 1 table, 1 fig.

1977b A comparison of Rb-Sr systematics for granites from coastal Maine and from central New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 6, p. 531

1977c Uranium deposits of the Grants mineral belt-geochemical constraints on origin, in Exploration frontiers of the central and southern Rockies, K. H. Veal, editor: Rocky Mtn. Assoc. Geologists, Guidebook 1977 field conf., p. 337-352, 7 figs.

1977d Geochemical genesis of uranium in the southern San Juan Basin: U.S. Dept. Energy, Rept. GJO-BFEC-78, p. 10-28; abs. in 1977 NURE uranium geology symposium, U.S. Dept. Energy, Rept. GJBX-12-78, 1978, p. 67

1978a Radiogenic heat contribution to heat flow from potassium, uranium, and thorium in the Precambrian silicic rocks of the Florida Mountains and the Zuni Mountains, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 98, 14 p., 2 tables

1978b Uranium deposits and spent fuel rods (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 372

1978c Radiogenic heat contribution to heat flow from K, U, Th, in the Precambrian silicic rocks of the Zuni Mountains, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1211

1978d Geochemical study of the uranium deposits of the southern San Juan Basin, New Mexico: U.S.

Dept. Energy, Rept. GJBX-12-78, p. 67-86

1979a Mechanisms for uranium deposition in Grants mineral belt, *abs. in* Grants uranium region, a symposium: Am. Assoc. Petroleum Geologists, Program, p. 8-9; Am. Assoc. Petroleum Geologists, v. 63, no. 4, p. 686-687

1979b Periods of mineralization in Grants mineral belt, New Mexico, *abs. in* Grants uranium region, a symposium: Am. Assoc. Petroleum Geologists, Program, p. 9; Am. Assoc. Petroleum Geologists, v. 63,

no. 4, p. 687

1979c Uranium deposits of the Grants, New Mexico, mineral belt, pt. II: U.S. Dept. Energy and Bendix Field Eng., Rept. GJBX-141-79, 411 p.

1979d Uranium minerals and the mineralogy of the Grants mineral belt (abs.): Univ. New Mexico, New Mexico Minerals Symp., p. 7

1979e Study of drill core from the east Chaco Canyon area, San Juan Basin—pt. 1, geochemical studies: U.S. Dept. Energy, Rept. GJBX-215-80, 119

1980a Geochronologic evidence for Paleozoic plutonic activity in Florida Mountains, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 681-682

1980b K-Ar age of lamprophyre dike from the Kerr-McGee potash mine, southeastern New Mexico: Isochron/West, no. 29, p. 27

1980c Polyhalite K-Ar radiometric ages from southeastern New Mexico: Isochron/West, no. 29, p. 29-30

1980d Geochronologic studies in the Grants mineral belt, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 52-58, 4 tables, 3 figs.

1980e Geochemical and clay mineralogical studies, Grants mineral belt, *abs. in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 396

1980f Primary uranophane from the Grants mineral belt, New Mexico (abs.): Arizona-Nevada Acad. Sci., Jour., v. 15, p. 43

1980g Paleozoic plutonism from southern New Mexico—evidence from the Florida Mountains: Geophys. Research Letters, v. 7, no. 10, p. 741-744

1980 (Bolton, W. R., and Condie, K. C.) Rb-Sr isochron ages of four Precambrian igneous rock units from south-central New Mexico: Isochron/West, no. 29, p. 31-37, 4 tables, 4 figs.

1979 (Chakoumakos, B. C., Cook, C. W., Ewing, R. C., Landis, G. P., and Register, M. E.) The Harding pegmatite—summary of recent research: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 127–133, 1 table, 6 figs.

1977 (Crumpler, L. S., and Elston, W. E.) Srisotope initial ratios from the Mount Taylor volcanic field, New Mexico: Isochron/West, no. 20, p. 18

1977 (and Della Valle, R. S.) Uranium abundance in some Precambrian and Phanerozoic rocks from New Mexico, *in* Exploration frontiers of the central and southern Rockies, H. K. Veal, editor: Rocky Mtn. Assoc. Geol., Guidebook 1977 field conf., p. 353–362, 3 tables, 1 fig.

1979 (and Della Valle, R. S.) Less common trace elements in sandstone-type uranium deposits—theory and application (abs.): Am. Assoc. Petroleum Geol-

ogists, Bull., v. 63, no. 5, p. 823-824

1979 (Della Valle, R. S., and Balagna, J. P.) Trace element exploration geochemistry of uranium occurrences in the San Juan Basin, southwestern United States (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 394

1977 (Della Valle, R. S., and Lee, M. J.) Rubidiumstrontium geochronologic investigation of the Zuni Mountains, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 9

1978a (Della Valle, R. S., and Lee, M. J.) Rb-Sr geochronologic investigation of Precambrian silicic rocks from the Zuni Mountains, New Mexico: Mtn. Geologist, v. 15, no. 2, p. 67-71, 1 table, 3 figs.

1978b (Della Valle, R. S., and Lee, M. J.) Rare earth element study of whole rocks and clay minerals from the southern San Juan Basin, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 4, p. 388

1980 (Della Valle, R. S., and Register, J. K.) Rb-Sr dating of diagenesis-epigenesis in Mesozoic rocks, San Juan Basin, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 681

1977 (Eppler, Dean, and Elston, W. E.) Sr isotope initial ratios from the San Antonio Mountain area, New Mexico: Isochron/West, no. 20, p. 17

1977 (Forbes, R. B., Turner, D. L., and others) Rb-Sr, K-Ar, and fission-track geochronological studies of samples from LASL drillholes GT-1, GT-2, and EE-1: Los Alamos Sci. Lab., Rept. 6829, 27 p.

1980 (Kasten, J. A., and Kudo, A. M.) Sr-isotope study of andesites from the southern Albuquerque Basin, New Mexico: Isochron/West, no. 27, p. 27, 1 table

1976a (and Laughlin, A. W.) Rubidium-strontium geochronologic study of GT-1 and GT-2 whole rocks (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 352

1976b (and Laughlin, A. W.) High 87/86 strontium ratios in deep-seated fracture-filling calcite from GT-2 (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 352

1976c (and Laughlin, A. W.) Isotopic evidence for local derivation of strontium in deep-seated, fracture-filling calcite from granitic rocks, in drill hole GT-2, Los Alamos Scientific Laboratory dry hot rock program, New Mexico: Jour. Volcanology and Geothermal Research, v. 1, no. 2, p. 193-196, 2 tables

1977 (Lee, M. J., and Riese, W. C.) Trace elements as possible prospecting tools for uranium in the southern San Juan Basin: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 263-269, 3 tables, 5 figs.

1977 (Lee, M. J., and Shafiqullah, M.) K-Ar ages for clay-size and silt-size fractions of uranium ore

from the Grants mineral belt, New Mexico: Isochron/West, no. 18, p. 17-19

1977 (and Olsen, C. E.) Results of pilot studies of Project NURE from New Mexico—Estancia Basin and area northeast of Grants mineral belt (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 5, p. 772

1978 (and Rautman, C. A.) Uranium and thorium abundances, whole-rock chemistry and trace-element chemistry, Zuni Mountains, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 99, 47 p., 3 tables, 26 figs., appendix; New Mexico Energy Inst., Rept. 77-1104B, 46 p.

1978 (Rautman, C. A., and Corbitt, L. L.) Uranium and thorium abundances and whole-rock chemistry of the Florida Mountains, New Mexico, preliminary study: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 101, 23 p., 2 tables, 7 figs.

1980 (Register, J. K., and Krueger, H. W.) Potassium-argon dating of polyhalite in southeastern New Mexico: Geochim. et Cosmochim. Acta, v. 44, no. 5, p. 635-637, 2 tables

1978 (Register, J. K., Register, M. E., and Lambert, S. J.) Rb-Sr systematics and related studies of the Salado and Castile Formations, southeastern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 372

1977 (Riese, W. C., and Lee, M. J.) Rare earth and other trace elements as prospecting guides in Grants mineral belt, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 8, p. 1373

1980 (Warren, R. G., and Kudo, A. M.) Sr-isotope initial ratios from the Engle Basin volcanics, south-central New Mexico: Isochron/West, no. 27, p. 17

1980 (and Zimmerman, C. J.) Sr-isotope initial ratios from the Taos volcanic field, northern New Mexico: Isochron/West, no. 27, p. 31

see Callender, Robertson, and Brookins, 1976; Condie and Brookins, 1980; Della Valle and Brookins, 1979, 1980a,b; Enz and others, 1979; Helmick and others, 1976; Hicks, R. T., and others, 1979, 1980; Laughlin, Brookins, and Damon, 1976; Laughlin and others, 1979; Lee, M. J., and Brookins, 1978, 1980; Lee, M. J., Brookins, and Shafiqullah, 1977; Mukhopadhyay and Brookins, 1976a,b; Place and others, 1979, 1980; Register, J. K., and Brookins, 1980; Register, M. E., and Brookins, 1978, 1979; Register, M. E., Brookins, and Della Valle, 1978; Riese, W. C., and Brookins, 1976, 1977, 1978, 1979, 1980; Riese, W. C., Brookins, and Della Valle, 1978, 1979, 1980; Riese, W. C., Brookins, and Lee, 1978, 1979; Riese, W. C., Lee, and Brookins, 1977; and Robertson, J. M., Callender, and Brookins, 1976

Brooks, B. J.

1978 (and Clark, W. R.) Wagon Mound Dakota-Morrison (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 553-555, 3 figs.

Brooks, Robert

1978 Uranium resources in American west—worldwide implications (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 7, p. 1210

Broomfield, Robin E.

1977 Structural geology and igneous petrology of

the Cañones area, Rio Arriba County, New Mexico: M.S. thesis, Univ. New Mexico, 75 p.

Broughton, Paul L.

see Kendall and Broughton, 1977

Brown, Charles F.

1978a Aztec Pictured Cliffs (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 192-194, 4 figs.

1978b Ballard Pictured Cliffs (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 195-197, 4 figs.

1978c Blanco Pictured Cliffs (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 225-227, 4 figs.

1978d Blanco Pictured Cliffs, east (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 228-229, 3 figs.

1978e Blanco Pictured Cliffs, south (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 230-232, 4 figs.

1978f Choza Mesa Pictured Cliffs (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 266-267, 3 figs.

1978g Fulcher-Kutz Pictured Cliffs (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 307-309, 4 figs.

1978h Kutz Pictured Cliffs, west (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 366-368, 4 figs.

1978i Tapacito Pictured Cliffs (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 516-518, 4 figs.

Brown, Daniel R.

1976 Hydrogeology and water resources of the Aztec quadrangle (San Juan County): M.S. thesis, New Mexico Inst. Mining and Tech., 175 p.

1979 (and Stone, W. J.) Hydrogeology of Aztec quadrangle, San Juan County, New Mexico: New Mexico Bureau Mines Mineral Resources, Hydro. Sheet 1, 5 tables, 12 figs., scale 1:62,500

Brown, Donald W.

1976 Recent advances in the deep drilling of hot crystalline rocks (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 349

see Aamodt, Blatz, and others, 1978; Aamodt, Brown, and others, 1978; and Murphy, H. D., and others, 1978

Brown, G. E.

see Keefer and Brown, 1978

Brown, Harold H.

1978a Beautiful Mountain Mississippian (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 207-208, 4 figs.

1978b Buena Suerte Pennsylvanian (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and

others, editors: Four Corners Geol. Soc., p. 254-255, 2 figs.

1978c Nageezi Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 427-428, 3 figs.

1978d Otero Gallup (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 444–446, 3 figs.

Brown, Larry D.

1980 (Allmendinger, R. W., Kaufman, S., Oliver, J. E., Chapin, C. E., and Sanford, A. R.) Magma bodies, transverse faulting, and deep crustal structure from COCORP surveys across a Cenozoic cauldron in central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 393

1978 (Brewer, J., and others) COCORP deep seismic reflection studies of continental lithosphere—regional variations in intrabasement structure (abs.): Soc. Exploration Geophys., 48th Ann. Mtg., p. 87-88

1980 (Chapin, C. E., Sanford, A. R., Kaufman, S., and Oliver, J. E.) Deep structure of the Rio Grande rift from seismic reflection profiling: Jour. Geophys. Research, v. 85, no. B9, p. 4773-4800

1979 (Kaufman, S., Long, G. H., and others) Evidence of structural complexity of the lower crust and upper mantle from seismic reflection profiling (abs.): Tectonophysics, v. 56, no. 1-2, p. 127

1977 (Kaufman, S., and Oliver, J. E.) Deep structure of the Rio Grande rift from seismic reflection profiling (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 6, p. 534-535

1979 (Krumhansl, P. A., Chapin, C. E., Sanford, A. R., Cook, F. A., Kaufman, S., Oliver, J. E., and Schilt, F. S.) COCORP seismic reflection studies of the Rio Grande rift, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 169–184, 7 figs.

1978 (Krumhansl, P. A., Cook, F. A., and Kaufman, S.) Seismic reflection character of the Socorro magma body (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 4, p. 390

1978 (Krumhansl, P. A., Cook, F. A., Kaufman, S., Oliver, J. E., Schilt, F. S., Chapin, C. E., and Sanford, A. R.) COCORP seismic reflection studies of the Rio Grande rift, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 20

1980 (Miesen, D. L., Reilinger, R. E., and Jurkowski, G. A.) Geodetic leveling and crustal movement in the U.S.—pt. I, topography and vertical motion (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 32, p. 574

1978 (Reilinger, R. E., and Hagstrum, J. R.) Contemporary uplift of the Diablo Plateau, west Texas, from leveling measurements: Jour. Geophys. Research, v. 83, no. B11, p. 5465-5471, 6 figs.

see Chapin, Sanford, and Brown, 1980; Long, G. H., and others, 1977; Reilinger, Brown, and Jurkowski, 1980; Reilinger, Brown, and others, 1978, 1979; Reilinger, Brown, and Powers, 1980; Reilinger, Oliver, Brown, and others, 1979; and Schilt and others, 1978

Brown, Lionel F.

1977 A gravity survey of central Doña Ana County,

New Mexico: M.S. thesis, New Mexico State Univ., 56 p.

see Daggett and Brown, 1977; and Seager and Brown, 1978

Brown, M. C.

1979 (Duffield, R. B., and Siciliano, C. L. B., compilers) Hot dry rock geothermal energy development program, annual report, fiscal year 1978: Los Alamos Sci. Lab., Rept. LA-7807-HDR, 129 p.

Brown, Richmond F.

1976 (Signor, D. C., and Wood, W. W.) Artificial ground-water recharge as a water-management technique on the southern High Plains of Texas and New Mexico: U.S. Geol. Survey, Open-file Rept. 76-730, 109 p., 1 table, 30 figs.

Brown, S. G.

1976 Preliminary maps showing ground-water resources in the lower Colorado River region, Arizona, Nevada, New Mexico, and Utah: U.S. Geol. Survey, Hydrol. Inv. Atlas 542, scale 1:1,000,000

Broxton, D. E.

1978 Uranium hydrogeochemical and stream sediment reconnaissance of the Tularosa NTMS quadrangle, New Mexico: U.S. Dept. Energy, Rept. GJBX-104-78, 81 p., 6 tables, 2 figs., 4 pls.

see Morgan, T. L., and Broxton, 1978

Bryant, Alan C.

1978a Ojo Encino Entrada (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 435-436, 3 fies.

1978b Papers Wash Entrada (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 451-452, 3 figs.

1978c Snake Eyes Entrada (oil); Snake Eyes Dakota (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 500–502, 2 figs.

1980 Entrada oil fields of southern San Juan Basin, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5., p. 682

Bryson, R. S.

see Amuedo and Bryson, 1977

Bubb, J. N.

1978 (and Hatlelid, W. G.) Seismic stratigraphy and global changes of sea level—pt. 10, seismic recognition of carbonate buildups: Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 5, p. 772–791, 1 table, 17 figs.

Buchanan, Bruce A.

see Robbie and Buchanan, 1978

Buchanan, C.

1976 Precambrian structural-metamorphic history, Rociada, New Mexico: B.S. paper, Univ. Texas (Dallas)

Buchanan, W. A.

see Neher and Buchanan, 1980

Buchholz, J. R.

see Purtymun, Buchholz, and Hakonson, 1977

Buckner, Duane H.

1976 Variations in natural-gas composition in Blanco field, San Juan Basin, related to source-rock type, thermal maturity, and migration (abs.): Am. Assoc.

Petroleum Geologists, Bull., v. 60, no. 8, p. 1392-1393

Buddecke, Donald B.

1977 Costs of uranium mining in New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 77, 9 p.

Budding, Antonius J.

1978 Subsurface geology of the Pajarito Plateau—interpretation of gravity data, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 196-198, 4 figs.

1979 Supplemental road log no. 2, Glorieta to Las Vegas: New Mexico Geol. Soc., Guidebook 30th field

conf., Santa Fe, p. 44-48, 7 figs.

1980 Geology and oil characteristics of tar sand near Santa Rosa, New Mexico: New Mexico Geology,

v. 2, no. 1, p. 4-5, 3 figs.

1977a (and Broadhead, R. F.) Igneous and metamorphic petrology, *in* Geology, petroleum source rocks, and thermal metamorphism in KCM No. 1 Forest Federal well, Hidalgo County, New Mexico, S. Thompson, III, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 152, p. 29–35, 5 tables, 4 figs.

1977b (and Broadhead, R. F.) Petrographic descriptions of thin sections of drill cuttings from KCM No. 1 Forest Federal well, Hidalgo County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 75, 93 p., 52 photos

1977c (and Broadhead, R. F.) Tertiary plutonic rocks and associated contact metamorphism in the KCM No. 1 Forest Federal well, Hidalgo County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 9-10

1979 (and Cepeda, J. C.) Tectonics and metamorphism of the El Oro gneiss dome near Mora, northcentral New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 159–164, 1 table, 3 figs.

1979 (and Purtymun, W. D.) Seismicity of the Los Alamos area based on geologic data: Los Alamos Sci.

Lab., Rept. LA-6278-MS, 7 p.

1979 (Robertson, J. M.; Manley, Kim; Hawley, J. W.; Casey, J. M.; Cordell, Lindrith; and Muehlberger, W. R.) First day, road log from Santa Fe to Ranchos de Taos via Pojoaque, Nambe, Cundiyo, Truchas, and Peñasco; with an extension to Rio Grande Gorge, Embudo, and Española: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 1-14, 15 figs.

see Condie and Budding, 1979; and Robertson,

J. M., Budding, and others, 1979

Budding, Karin E.

see Rogers, M. A., Christie, and Budding, 1980

Buder, M. K.

1978 Coming—in-situ gasification: Coal Mining and Processing, v. 15, no. 5, p. 54-59, 3 tables, 3 figs., 2 maps

Budge, Thomas K.

see Morain and others, 1977

Bulloch, H. Edward, Jr.

1980 (and Neher, R. E.) Soil survey of Doña Ana County area, New Mexico: U.S. Dept. Agriculture, Soil Conserv. Serv., 177 p., 2 maps

Bunderson, Eileen

see Tidwell, Bunderson, and Parker, 1980

Bunker, M. E.

see Aamodt, Bunker, and others, 1979; Aamodt, Waterbury, and others, 1979; Morris, Bunker, and others, 1979; Morris, Bunker, and Steinhaus, 1979; and Weaver and others, 1978

Burchfiel, B. C.

1978 Geologic history of the central western United States (abs.): Internat. Assoc. Genesis Ore Deposits, 5th Symp., Program and Abs., p. 63

Burke, Kevin

1978 Continental rifts, abs. in International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 21-22 see McGetchin, Burke, and others, 1979

Burkham, D. E.

1976 Hydraulic effects of changes in bottom-land vegetation on three major floods, Gila River, in southeastern Arizona: U.S. Geol. Survey, Prof. Paper 665-J, p. 1-14

Burnside, S. S.

1976 (and Wenrich-Verbeek, K. J.) Chemical analysis and statistical data for water samples collected in Colorado, New Mexico, and Arizona as part of a study of surface-water and stream-sediment sampling techniques used in uranium exploration: U.S. Geol. Survey, Open-file Rept. 76-851, 314 p.

Burroughs, Richard L.

1976 (and McFadden, D. H.) Some hydrogeologic problems in the San Luis Basin, Colorado-New Mexico: Colorado School Mines, Studies in Colorado Field Geology, no. 8, p. 544-549, 1 fig.

see Hawley, Burroughs, and others, 1978

Burruss, R. C.

1979 (and Hollister, L. S.) Evidence from fluid inclusions for a paleogeothermal gradient at the geothermal test well sites, Los Alamos, New Mexico: Jour. Volcanology and Geothermal Research, v. 5, no. 1-2, p. 163-177

Burt, Donald M.

1978a Skarns in the United States—a survey of recent research (abs.): Internat. Assoc. Genesis Ore Deposits, 5th Symp., Program and Abs., p. 64

1978b Economic mineral associations of skarn ilvaite (abs.): Internat. Assoc. Genesis Ore Deposits,

5th Symp., Program and Abs., p. 65

1980 (Bikun, J. V., and Christiansen, E. H.) Distribution and petrogenesis of topaz rhyolites, western U.S.A. (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7 p. 396

1980 (and Sheridan, M. F.) A model for the formation of uranium/lithophile element deposits in fluorine-enriched volcanic rocks (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 18

see Bikun and others, 1980; Christiansen, E. H., and others, 1980; and Sheridan and Burt, 1979

Burton, Barry W.

see Rogers, M. A., and Burton, 1980

Burton, J. C.

1979 (and Jackson, D. H.) Contact metamorphism by convective heat transfer at Wind Mountain, New Mexico: Neues Jahrb. Mineralogie Monatsh., no. 9, p. 408-420

Burton, Robert C.

1977 Conodonts from reef banks of Mississippian age in the Sacramento Mountains, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 5, p. 580

see Armstrong, A. K., Mamet, and Burton, 1979

Busby, Mark W.

1979a Surface water environment in the area of the San Juan Basin regional uranium study, New Mexico, Arizona, Utah, and Colorado: U.S. Geol. Survey, Open-file Rept. 79–1499, 64 p. [1980]

1979b Water use in the area of the San Juan Basin regional uranium study, New Mexico, Arizona, Utah, and Colorado: U.S. Geol. Survey, Open-file Rept. 79-1500, 21 p. [1980]

Buscemi, P. A.

1978 (and Puffer, J. H.) Chemico-trophic attributes of detrital aggregates in a New Mexico alkaline reservoir (abs.): Sel. Water Resources Abs., v. 11, no. 11, p. 57-58

Butler, Charles

1977 History of the Tierra Amarilla Grant: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 91-92, 1 fig.

Butler, James H.

1977 (editor) Geology of the Sacramento Mountains, Otero County, New Mexico: West Texas Geol. Soc., Guidebook, Pub. 1977-68, 230 p.

Butler, Robert F.

1976 (Lindsay, E. H., Jacobs, L. L., and Johnson, N. M.) Preliminary report on magnetic stratigraphy of Cretaceous-Paleocene continental deposits in the San Juan Basin, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 238

1977 (Lindsay, E. H., Jacobs, L. L., and Johnson, N. M.) Magnetostratigraphy of the Cretaceous-Tertiary boundary in the San Juan Basin, New Mexico: Nature, v. 267, no. 5609, p. 318-327, 6 figs.

1979 (Lindsay, E. H., and Johnson, N. M.) Magnetic polarity stratigraphy of latest Cretaceous to middle Paleocene terrestrial deposits, San Juan Basin, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 237

1978 (and Taylor, L. H.) A middle Paleocene paleomagnetic pole from the Nacimiento Formation, San Juan Basin, New Mexico: Geology, v. 6, no. 8, p. 495-498, 2 tables, 4 figs.

see Lindsay, Butler, and Johnson, 1979; Lindsay, Butler, Johnson, and Jacobs, 1979; Lindsay, Jacobs, and Butler, 1978; and Taylor, L. H., and Butler, 1980 Byers, V. P.

1979 Geologic map and sections of the Crystal quadrangle, San Juan and McKinley Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79–599,

scale 1:24,000

1980 Geologic map and sections of the Sonsela Butte 4 SE quadrangle, Apache County, Arizona, and San Juan and McKinley Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-788, scale 1:24,000

Byrd, T. M.

1978 (and Kunath, C. E.) Sand Cave, in The caves of McKittrick Hill, Eddy County, New Mexico—history and results of field work, 1965-1976, C. E. Kunath, editor: Texas Speleological Soc., p. 49-52

Cadigan, Robert A.

see Felmlee and Cadigan, 1978

Calhoun, T. E.

see Hodson and others, 1980; and Nyhan, Hacker, and others, 1978

Callender, Jonathan F.

1976 (Robertson, J. M., and Brookins, D. G.) Summary of Precambrian geology and geochronology of northeastern New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 129-135, 1 table, 1 fig.

1978 (Wilt, J. C., and Clemons, R. E., editors) Land of Cochise, southeastern Arizona: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, 372 p., 32 tables, 271 figs.

1976 (Woodward, L. A., and Kelley, V. C.) Structural framework of the Rio Grande rift, New Mexico and Colorado (abs.): Geol. Soc. America, Abs. with Programs, v, 8, no. 5, p. 573

1976 (and Zilinski, R. E., Jr.) Kinematics of Tertiary and Quaternary deformation along the eastern edge of the Lucero uplift, central New Mexico, in Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 53-61, 1 table, 11 figs.

see Berkeley and Callender, 1979; Berkeley, Callender, and Keil, 1976; Gorham, F. D., and others, 1977, 1979; Kelley, V. C., Woodward, and others, 1976; Robertson, J. M., Callender, and Brookins, 1976; Woodward and Callender, 1977a,b; and Woodward, Callender, and others, 1978

Calzia, J. P.

1978 (and Hiss, W. L.) Igneous rocks in northern Delaware Basin, New Mexico and Texas, *in* Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 39–45, 4 tables, 3 figs.

Campbell, Charles V.

1976 Reservoir geometry of a fluvial sheet sandstone: Am. Assoc. Petroleum Geologists, Bull., v. 60, no. 7, p. 1009–1020, 7 figs.

1979 Model for beach shoreline in Gallup Sandstone (Upper Cretaceous) of northwestern New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 164, 32 p., 1 table, 32 figs., 2 appendices

Campbell, Frank

see Frost and others, 1980

Campbell, Jock A.

1976 (and Steele, B. A.) Uranium potential of Permian rocks in the southwestern United States: U.S. Geol. Survey, Open-file Rept. 76-529, 26 p., 10 tables, 4 figs.

see Slack and Campbell, 1976

Campbell, John P.

1978 Eagle Mesa Entrada (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 285–286, 2 figs.

Cannon, Helen L.

1979 (and Swanson, V. E.) Contributions of major and minor elements to soils and vegetation by the coal-fired Four Corners Power Plant, San Juan County, New Mexico: U.S. Geol. Survey, Prof. Paper 1129-B, p. B1-B13, 5 tables, 7 figs.

Cannon, Robert P.

1977 Petrology and geochemistry of the Palisades sill, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 81, 90 p., 4 tables, 31 figs., 3 appendices

1977 (and Ragland, P. C.) Petrology and geochemistry of the Palisades sill, northern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 6, p. 713-714

Cape, Cheryl D.

1980 (McGeary, S., Bracken, R. E., Gagnon, L. D., and Thompson, G. A.) Cenozoic normal faulting and the shallow structure of the Rio Grande rift near Socorro, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1039

Capener, W. M.

see Austin, L. A., and others, 1977

Caravella, Frank J.

1976 A study of Poisson's ratio in the upper crust of the Socorro, New Mexico, area: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 11, 83 p.

1977 (and Sanford, A. R.) An analysis of earthquakes north of the Los Medanos site on July 26, 1972, and November 28, 1974: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 12a, 19 p.

see Sanford, Mott, and others, 1977; and Shuleski and others, 1977

Carelton, A. T.

1977 Vada Pennsylvanian field, Lea and Roosevelt Counties, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 212-213, 1 table. 1 fig.

Carey, J. B.

1979 (and Keetch, C. W.) Helicopter mapping of soils in San Juan County, New Mexico: Jour. Soil and Water Conservation, v. 34, no. 2, p. 99-102

Carlson, Kurt H.

see Miller, B. M., and others, 1978

Carlson, R. W.

see Jagoutz and others, 1980

Carruthers, Garrey see Babcock, R. E., and others, 1978

Carten, Richard B.

see Armstrong, A. K., Silberman, and others, 1978

Carter, J. A.

see Barr and others, 1979

Carter, James L.

see Padovani and Carter, 1976, 1977, 1978a, b

Carwile, C.

see Maurer and others, 1978

Case, Walter S., Jr.

1978 Leach/crystallization—process for potash production, in Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 69-70

Casella, V. R.

see Styron and others, 1979

Casey, J. Michael

1979a Basin evolution of late Paleozoic Taos trough, northern New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 5, p. 824

1979b Pennsylvanian clastic depositional environments of the western margin of the Taos trough, northern New Mexico (abs.): 9th Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 31; New Mexico Geology, v. 1, no. 4, p. 60-61

1980a Paleogeographic evolution of late Paleozoic Taos trough, northern New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p.

687-688

1980b Depositional systems and basin evolution of the late Paleozoic Taos trough, northern New Mexico: Ph.D. thesis, Univ. Texas (Austin), 253 p.; Dissert. Abs. Internat., v. 41, no. 4, p. 1280-B; also in Paleozoic paleogeography of the west-central United States, T. D. Fouch, editor, Soc. Econ. Paleontologists and Mineralogists, Rocky Mtn. Sec., p. 181-196

1979 (and Scott, A. J.) Pennsylvanian coarse-grained fan deltas associated with the Uncompahgre uplift, Talpa, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 211-218, 8 figs.

1980 (and Scott, A. J.) Spectrum of deltaic systems in Pennsylvanian tectonically active cratonic basin, north-central New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 688

see Budding, Robertson, and others, 1979; Mc-Bryde and Casey, 1979; and Scott, A. J., and Casey,

1979

Cather, Steven M.

Cash, Daniel J.

see Olsen, K. H., Cash, and Bridwell, 1976; and
Olsen, K. H., Keller, Stewart, and others, 1977

1980 Petrology, diagenesis, and genetic stratigraphy of the Eocene Baca Formation, Alamo Navajo Reservation and vicinity, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 125, 263 p., 7 tables, 75 figs., 1 map, 2 appendices; M.S. thesis, Univ. Texas (Austin)

1980 (and Johnson, B. D.) Genetic stratigraphy and provenance of Baca Formation of New Mexico and Eagar Formation and Mogollon Rim gravels of Arizona (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 688-689; New Mexico Geology, v. 2, no. 4, p. 63

Catlet, L. B.

see Austin, L. A., and others, 1977

Cavaroc, Victor V., Jr.

1980 (and Flores, R. M.) Variations in Cretaceous coal-bearing strata, Gallup coal field, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 689

Cave, S. P.

see Sutherland and Cave, 1980

Cebull, S. E.

see Shurbet and Cebull, 1978

Cepeda, Joseph C.

see Budding and Cepeda, 1979

Cernock, Paul J.

1976 Hydrocarbon source-rock evaluation study, KCM No. 1 Cochise State A well, Hidalgo County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 96, 22 p., 5 tables, 2 figs., 1 appendix

1977a Hydrocarbon source-rock evaluation study,

Humble Oil and Refining Co. No. 1 State BA well, Hidalgo County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 97, 46 p., 8 tables, 3 figs., 1 appendix; supplement text, 3 tables

1977b Organic geochemical analysis of drill cuttings from the KCM No. 1 Forest Federal well, Hidalgo County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 10-11

1977c Hydrocarbon source-rock evaluation study, organic geochemical analyses of dry-well cuttings, EXXON Corp. Prisor Unit Fed. No. 1 well, Sierra County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 127, 27 p., 7 tables, 4 figs. 1 appendix

1977 (and Bayliss, G. S.) Organic geochemical analyses, *in* Geology, petroleum source rocks, and thermal metamorphism in KCM No. 1 Forest Federal well, Hidalgo County, New Mexico, S. Thompson, III, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 152, p. 37–47, 5 tables, 3 figs.

Chafetz, Henry S.

1976 Beartooth sandstone, an Upper Cretaceous deltaic deposit, Silver City range, southwestern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 574

see Kocurek and Chafetz, 1977

Chaiffetz, M. S.

1977 Source rock and palynostratigraphic potential for the Paleozoic sediments of west Texas-southern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 11

1979 Palynological age and paleoecology of Baca Formation, northwestern Socorro County, centralwestern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 6, p. 268–269

1979 (Kocurek, G., and Cornell, W. C.) First report of Chitinozoa from the Upper Devonian Percha Shale, SW New Mexico (abs.): Palynology, v. 3, p. 280–281

Chakoumakos, Bryan C.

1978a Replacement features in the Harding pegmatite, Taos County, New Mexico (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 22

1978b The Harding pegmatite mine: Univ. New Mexico, Dept. Geology, 10 p., 4 figs.

see Brookins, Chakoumakos, and others, 1979

Chamberlin, Richard M.

1976 Rotated early-rift faults and fault blocks, Lemitar Mountains, Socorro County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 807

1978 Structural development of the Lemitar Mountains, an intrarift tilted fault-block uplift, central New Mexico, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 22-24, 1 fig.

1980 Cenozoic stratigraphy and structure of the Socorro Peak volcanic center, central New Mexico—v. 1, stratigraphy; v. 2, structure: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 118, 532 p., 8 tables, 41 figs., 3 maps, 3 appendices

see Chapin, Chamberlin, and Hawley, 1978; Chapin, Chamberlin, Osburn, and others, 1978; Chapin, Jahns, and others, 1978; Chapin, Sanford, and others, 1979; Hawley, Chapin, Chamberlin, and others, 1978; and Hawley, Lovejoy, and others, 1978 Chambers-Campbell-Isaacson-Chaplin, Inc.

1976 Environmental impact assessment report for proposed West Mesa airport at Albuquerque, New Mexico: consult. rept. to Middle Rio Grande Council Govts., 15 figs.

Chapin, Charles E.

1976 Evolution of the Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 808-809

1978a Evolution of the Rio Grande rift—comparisons between segments and the role of transverse structures, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Programs and Abs., Rept. LA-7487-C, p. 24-27

1978b Mountains and basins west of I-25, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 92-93, 1 fig.

1978c Overview of Cenozoic features, San Marcial Basin, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 96–97, 2 figs.

1979a Evolution of the Rio Grande rift—a summary, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 1-5, 1

1979b Basement lineaments in the southern Rocky Mountains-Rio Grande rift volcanic province and their influence on intraplate volcanism (abs.): Hawaii Symp. on Intraplate Volcanism and Submarine Volcanism, Program with Abs., p. 8

1978 (Chamberlin, R. M., and Hawley, J. W.) Socorro to Rio Salado, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 121-137, 11 figs.

1978a (Chamberlin, R. M., Osburn, G. R., Sanford, A. R., and White, D. W.) Exploration framework of the Socorro geothermal area, New Mexico, *in* Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 114-129, 1 table, 3 figs.; New Mexico Bureau Mines Mineral Resources, Openfile Rept. 88, 70 p., 1 table, 3 figs., 5 appendices

1978b (Chamberlin, R. M., Osburn, G. R., Sanford, A. R., and White, D. W.) Geological and geophysical maps of the Socorro geothermal area, *in* Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, 1 sheet with 3 maps at scale 1:62,500 and 1 map at scale 1:250,000

1976 (and Deal, E. G.) The A-L Peak tuff, New Mexico—a composite ash-flow sheet (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 575

1978 (and Elston, W. E., editors) Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico: New Mexico Geol. Soc., Spec. Pub. 7, 149 p.

1978 (Jahns, R. H., Chamberlin, R. M., and Osburn, G. R.) First day, road log from Socorro to

Truth or Consequences via Magdalena and Winston, in Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 1-31, 14 figs.

1979 (Osburn, G. R., Hook, S. C., Massingill, G. L., and Frost, S. J.) Coal, uranium, oil, and gas potential of the Riley-Puertecito area, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 103, 38 p., 12 tables, 4 figs., 4 sheets

1980 (Sanford, A. R., and Brown, L. D.) Past and present magmatic and hydrothermal systems at Socorro, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1150

1979 (Sanford, A. R., White, D. W., Chamberlin, R. M., and Osburn, G. R.) Geological investigation of the Socorro geothermal area: New Mexico Energy Inst., Rept. NMEI-26, 70 p.

see Brown, L. D., Allmendinger, and others, 1980; Brown, L. D., Chapin, and others, 1980; Brown, L. D., Krumhansl, Chapin, and others, 1979; Brown, L. D., Krumhansl, Cook, Kaufman, and others, 1978; Hawley, Chapin, Chamberlin, and others, 1978; Hawley, Chapin, and Osburn, 1978; Hawley, Lovejoy, and others, 1978; Lindley and others, 1980; Oliver, J. E., Sanford, and others, 1976; Olsen, K. H., and Chapin, 1978; and Woodward, Callender, and others, 1978

Chapman, Wood, and Griswold, Inc.

1979 [revision] Geology of Grants uranium region: New Mexico Bureau Mines Mineral Resources, Geol. Map 31, 3 sheets, scale 1:125,000, 1st edition pub. 1977

Chappelle, Ray L.

see Constant and Chappelle, 1978

Charles, R. W.

1978 Experimental alteration of a granodiorite in a circulation system: Natl. Tech. Inf. Serv., Rept. LA-UR-78-926, 5 p.; *abs. in* New Mexico Geology, 1979, v. 1, no. 2, p. 31

1976 (and Herrick, C. C.) Attempts to correlate experimental observations with computer modeling for the prediction of mass transport in some feldspar systems (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 353

1977 (West, F. G., Pettitt, R. A., Laughlin, A. W., and Balagna, J. P.) Status of the Los Alamos experiment to extract geothermal energy from dry hot rock (abs.): Geology, v. 5, no. 4, p. 237-290

see Balagna, West, and others, 1977; Laughlin, West, and others, 1977; and Potter, J. M., and others, 1976

Chaturvedi, Lokesh N.

1980a Geothermal hydrology, *in* State-coupled low temperature geothermal resource assessment program, fiscal year 1979, final technical report, L. Icerman, A. Starkey, and N. Trentman, editors: Natl. Tech. Inf. Serv., Rept. DOE/ID/01717-1, p. 8.1–8.22, 1 table

1980b Analysis of geological and geophysical logs of two geothermal exploration wells drilled on NMSU land, Las Cruces, New Mexico, *in* State-coupled low temperature geothermal resource assessment program, fiscal year 1979, final technical report, L. Icer-

man, A. Starkey, and N. Trentman, editors: Natl. Tech. Inf. Serv., Rept. DOE/ID/01717-1, p. 10.1-10.24

1980c New Mexico State University geothermal production well, *in* State-coupled low temperature geothermal resource assessment program, fiscal year 1979, final technical report, L. Icerman, A. Starkey, and N. Trentman, editors: Natl. Tech. Inf. Serv., Rept. DOE/ID/01717-1, p. 11.1-11.40

1980d Estimation of geothermal potential from geothermal aquifer characteristics and groundwater temperature changes with time (abs.): 26th Internat. Geol. Congr., Abs., v. 3, p. 1096

1980 (and Lory, J. K.) A preliminary evaluation of geothermal potential of San Juan Basin, New Mexico, using bottom hole temperatures from oil and gas wells: Geothermal Resources Coun., Trans., v. 4, Sept., p. 21-24, 4 figs.

1979 (and Ramos-Arras, M.) Geothermal hydrology and hydrogeology of Animas Basin and KGRA, southwestern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 400-401

see Gunaji, Thode, and others, 1978; and Lansford, Chaturvedi, and others, 1980

Chavez, E. A.

1976-77 Chloride content of water in selected wells finished in the San Andres Formation 1975-77; New Mexico State Engineer, open-file maps, 5 sheets

Cheeseman, Raymond J.

1978 Geology and oil/potash resources of Delaware Basin, Eddy and Lea Counties, New Mexico, in Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 7-14, 2 tables, 7 figs.

see Aguilar, Cheeseman, and Sandell, 1976; and John, C. P., and others, 1978

Chemical Projects, Ltd.

1978 Supplemental report, helium survey in sec. 13, T. 14 N., R. 10 W., McKinley County, New Mexico, in The potential of helium as a guide to uranium ore: Electric Power Research Inst., Rept. EPRI-EA-813, 25 p.

Chenot, G. R.

1977a Peterson (Associated gas) field, Roosevelt County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 150-151, 1 table, 1 fig.

1977b Shugart Delaware field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 182–183, 1 table, 1 fig.

Chenoweth, William L.

1976 Uranium resources of New Mexico, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 138–143, 2 tables, 2 figs.

1977 Uranium in the San Juan Basin—an overview: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 257–262, 2 tables, 4 figs.

1979 Uranium in the Santa Fe area, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 261-264, 2 figs.

1980 (and Holen, H. K.) Exploration in Grants uranium region since 1963, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 17-21, 2 tables, 3 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 9; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 687

see Fassett, Molenaar, and others, 1977

Cherrywell, C. H.

see Beck, R. G., and others, 1980

Chery, D. L., Jr.

1976 (and Kagan, R. S.) An overview of the precipitation processing system at the Southwest Watershed Research Center (abs.): Sel. Water Resources Abs., v. 9, no. 24, p. 95

Chessman, Mary

see Reiter, Simmons, and others, 1976

Christensen, David K.

see LaPoint and Christensen, 1977

Christiansen, Eric H.

1980 (Bikun, J. V., and Burt, D. M.) Petrology and geochemistry of topaz rhyolites, western United States, *in* Uranium mineralization in fluorine-enriched volcanic rocks, D. M. Burt and others: U.S. Dept. Energy, Rept. GJBX-225-80, p. 37-122

see Bikun and others, 1980; and Burt, Bikun, and Christiansen, 1980

Christiansen, Paige W.

see Clemons, Christiansen, and James, 1980

Christie, Virginia L.

see Rogers, M. A., Christie, and Budding, 1980

Cima, JoAnne

1978 Physical properties of selected scoria cones in New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 89 p.; *abs. in* New Mexico Geology, 1979, v. 1, no. 2, p. 31

see also Osburn, JoAnne Cima

Clark, David L.

1979 Conodonts and the Pennsylvanian-Permian boundary in the United States (abs.): 9th Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 246-247

Clark, Dean S.

1980 Uranium ore rolls in Westwater Canyon Sandstone, San Juan Basin, New Mexico, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 195-201, 4 figs.

Clark, G. R., II

1978 Byssate scallops in a Late Pennsylvanian lagoon (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 380

1979 Raindrop impressions as low-velocity impact structures (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 402

Clark, J. W.

see Balch and Clark, 1978

Clark, W. R.

see Brooks and Clark, 1978

Clayton, R. N.

see Sridhar and others, 1978

Clement, R. W.

1978 Temperature in streams of New Mexico for the period October 1964 to September 1969: Natl. Tech. Inf. Serv., Rept. PB-299-360, 35 p.; U.S. Geol. Survey, Water-resources Inv. 78-140, 35 p.

Clemons, Russell E.

1976a Sierra de las Uvas ash-flow field, south-central New Mexico, in Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 115-121, 4 figs.

1976b Origin of the Bell Top Formation ash-flow tuffs, south-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 577

1976c Geology of east half Corralitos Ranch quadrangle, New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 36, 2 sheets, scale 1:24,000

1977 Geology of west half Corralitos Ranch quadrangle, New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 44, 2 sheets, scale 1:24,000

1978 Geologic cross section of the Good Sight-Cedar Hills depression, *in* Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, sheet in pocket

1979 Geology of Good Sight Mountains and Uvas Valley, southwest New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 169, 31 p., 1 table, 23 figs., 2 appendices, 2 sheets in pocket

1980 (Christiansen, P. W., and James, H. L.) Southwestern New Mexico: New Mexico Bureau Mines Mineral Resources, Scenic Trip 10, revised, 119

1978 (and Seager, W. R.) Road log from junction of N.M. Highway 90 and U.S. Highway 180, Central to Las Cruces via Deming, *in* Field guide to selected cauldrons and mining districts of the Datil–Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 65–72, 6 figs.

see Callender, Wilt, and Clemons, 1978; Keith, Wilt, and others, 1978; and Seager, Clemons, and Elston, 1978

Clevenger, Tom S.

see Lansford, Chaturvedi, and others, 1980

Coal Age

1976 Region IV mining methods: Coal Age, v. 81, no. 10, p. 134-141, 5 figs.

1978a Gasification plant ok without impact statement upheld: Coal Age, v. 83, no. 4, p. 149

1978b New Mexico venture: Coal Age, v. 83, no. 6,

1978c Four Corners utilities file suit to stop Navajo pollution tax: Coal Age, v. 83, no. 6, p. 33

1979a Scientists say solar gasification tests successful: Coal Age, v. 84, no. 8, p. 32

1979b Navajos say lease sets new standard: Coal Age, v. 84, no. 9, p. 43

Cobban, William A.

1976 Ammonite record from the Pierre Shale of northeastern New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 165-169, 2 figs.

1977a Fossil mollusks of the Dakota Sandstone

and intertongued Mancos Shale of west-central New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 213-220, 5 figs.

1977b Characteristic marine molluscan fossils from the Dakota Sandstone and intertongued Mancos Shale, west-central New Mexico: U.S. Geol. Survey, Prof. Paper 1009, 74 p., 21 pls., 4 tables, 7 figs.

1979 (and Hook, S. C.) Collignoniceras woollgari woollgari (Mantell) ammonite fauna from Upper Cretaceous of Western Interior, United States: New Mexico Bureau Mines Mineral Resources, Mem. 37, 51 p., 12 pls., 12 figs.

1980 (and Hook, S. C.) The Upper Cretaceous (Turonian) ammonite family Coilopoceratidae Hyatt in the Western Interior of the United States: U.S. Geol. Survey, Prof. Paper 1192, 28 p., 21 pls.

see Hook and Cobban, 1977, 1979, 1980a,b; Hook, Cobban, and Landis, 1980; and Kennedy, W. J., and Cobban, 1976

Cole, James C.

see Marvin and Cole, 1978

Coleman, Robert B.

1978 Today's uranium milling costs: Mining Engineering, v. 30, no. 10, p. 1427–1432, 6 tables, 11 figs.

Colligan, Myles A.

1977 Baum Upper Penn field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 58-59, 1 table, 1 fig.

Collins, Carl O.

1978 Bisti Carson Unit Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 209-212, 5 figs.

Colpitts, Robert M., Jr.

see Smith, C. T., and Colpitts, 1980

Colton, R. B.

1976 Map showing landslide deposits and late Tertiary and Quaternary faulting in the Ft. Garland-San Luis area, Colorado-New Mexico: U.S. Geol. Survey, Open-file Rept. 76-185, scale 1:250,000

1979 Geologic hazards in the Rocky Mountain region (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 6, p. 268-269

Colvocoresses, A. P.

1979 Stereocombination of Landsat and aeromagnetic data, Claunch, New Mexico: U.S. Geol. Survey, Open-file Rept. 79–1527, 3 p.

Combs, Jim

see Johnson, D. M., and Combs, 1976; and Quillin and Combs, 1976

Comeau, S. P.

see Silver, R. M., and Comeau, 1979

Condie, Kent C.

1976 Precambrian rocks of Ladron Mountains, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 38, scale 1:24,000

1978 Geochemistry of Proterozoic granitic plutons from New Mexico, U.S.A.: Chem. Geology, v. 21, no. 1/2, p. 131-149, 2 tables, 8 figs.

1979 Precambrian rocks of the Taos Range and vicinity, northern New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 107-111, 1 table, 1 fig.

1980a Proterozoic tectonic setting in New Mexico: New Mexico Geology, v. 2, no. 2, p. 27–29, 2 figs.

1980b The Tijeras greenstone—evidence for depleted upper mantle beneath New Mexico during the Proterozoic: Jour. Geology, v. 88, no. 5, p. 603-609

1980 (and Brookins, D. G.) Composition and heat generation of the Precambrian crust in New Mexico: Geochem. Soc. Japan, Geochem. Jour., v. 14, no. 2, p. 95-99

1979 (and Budding, A. J.) Geology and geochemistry of Precambrian rocks, central and south-central New Mexico: New Mexico Bureau Mines Mineral Resources, Mem. 35, 58 p., 13 tables, 50 figs., 3 sheets in pocket, 1 microfiche

see Brookins, Bolton, and Condie, 1980; and Robertson, J. M., Condie, and Mathewson, 1978

Coney, Peter J.

1976a Structure, volcanic stratigraphy, and gravity across the Mogollon Plateau, New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 29-41

1976b Plate tectonics and the Laramide orogeny, in Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 5–10. 2 figs.

1978a (and Elston, W. E.) Alternate stop on Whitewater Mesa, *in* Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 89

1978b (and Elston, W. E) Mogollon to Horse Springs via the Bursum Road (NM-78 and Forest Road 28), in Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 90-99, 3 figs.

see Elston, Rhodes, Coney, and Deal, 1976; and Kluth and Coney, 1980

Conine, W. D.

1980 Uranium solution mining—comparison of New Mexico with south Texas, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 340–343, 2 tables, 9 figs.

Conkin, Barbara M.

see Conkin, J. E., and Conkin, 1979

Conkin, James E.

1979 (and Conkin, B. M.) Agglutinate foraminifera from the Lower Mississippian (Kinderhookian) Caballero Formation of New Mexico (abs.): 9th Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 31

Conley, J. N.

see Thompson, S., Tovar R., and Conley, 1978, 1980

Conlon, Michael F.

1978a Kutz Fruitland, west (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 361-362, 4 figs.

1978b Piñon Fruitland, north (gas), in Oil and gas

fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 458-459, 4 figs.

Connolly, J. R.

see Lisenbee and others, 1979

Connor, Carol Waite

see Craig, L. C., and Connor, 1979

Conroy, G. C.

see Wood, C. B., and others, 1979

Constant, Frank L.

1978 (and Chappelle, R. L.) Developments in west Texas and eastern New Mexico in 1977: Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 8, p. 1364–1371, 5 tables, 3 figs.

Consulting Professionals, Inc.

1977 Hydrologic report, La Tierra subdivision, phase 3, Santa Fe County, New Mexico: consult. rept. to Robert Weil, 13 p.

Contessa, Joseph V.

1975 The comparative influence of plant moisture stress and grazing on erosion in two small waterways in New Mexico: Ph.D. thesis, Univ. Southern Illinois (Carbondale), 161 p.; Dissert. Abs. Internat., 1976, v. 36, no. 12, pt. 1, p. 6037-B

Conyers, William P.

1978 Gavilan Pictured Cliffs (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 320-322, 4 figs.

Cook, Clarence W.

1979 Fluid inclusions and petrogenesis of the Harding pegmatite, Taos County, New Mexico: M.S. thesis, Univ. New Mexico, 143 p.

see Brookins, Chakoumakos, and others, 1979

Cook, F.

1979 Evaluation of the environmental effects of western surface coal mining, v. 1: Natl. Tech. Inf. Serv., Rept. EPA-600/7-79-110, 137 p.

Cook, Frederick A.

1978 (Decker, E. R., and Smithson, S. B.) Preliminary transient heat-flow model of the Rio Grande rift in southern New Mexico: Earth and Planet. Sci. Letters, v. 40, no. 3, p. 316–326, 5 figs.

1979 (McCullar, D. B., Decker, E. R., and Smithson, S. B.) Crustal structure and evolution of the southern Rio Grande rift, *in* Rio Grande rift— tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 195–208, 1 table, 8 figs., *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487–C, p. 27–28

see Brown, L. D., Krumhansl, Chapin, and others, 1979; Brown, L. D., Krumhansl, Cook, and Kaufman, 1978; Brown, L. D., Krumhansl, Cook, Kaufman, and others, 1978; Ramberg and others, 1978; and Schilt and others, 1978

Cookro, Theresa M.

1978 Petrology of the Precambrian granitic rocks from the Ladron Mountains, Socorro County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech.

Cooley, Maurice E.

1979a Effects of uranium development on erosion and associated sedimentation in southern San Juan

Basin, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1496, 25 p. [1980]

1979b Depths of channels in the area of the San Juan Basin regional uranium study, New Mexico, Colorado, Arizona, and Utah: U.S. Geol. Survey, Open-file Rept. 79-1526, 68 p., 26 sheets, scale 1:250,000 [1980]

1978 (Harshbarger, J. W., Akers, J. P., Hardt, W. F., and Hicks, O. N.) Regional hydrogeology of the Navajo and Hopi Indian Reservations, Arizona, New Mexico, and Utah: U.S. Geol. Survey, Prof. Paper 521-A, p. A1-A61, 12 maps

see Roeske and others, 1978

Coonce, C. A., and Associates

1977a Santa Fe Downs property, water-availability study for Cipriano Martinez, surveyor, Santa Fe, New Mexico: Coonce and Assoc., consult. rept. to Cipriano Martinez, 8 p.

1977b Capling subdivision, preliminary wateravailability study for Cipriano Martinez, Santa Fe, New Mexico: Coonce and Assoc., consult. rept. to Cipriano Martinez, 9 p.

1977c Villa subdivision, preliminary water-availability study for Cipriano Martinez, Santa Fe, New Mexico: Coonce and Assoc., consult. rept. to Cipriano Martinez, 9 p.

Cooper, E. N.

1978 (Lyon, D. K., and others) Water-resources research in the Lower Colorado River basin—1977-1978: U.S. Bureau Reclamation, 90 p.

Coppa, L. V.

see Weisner and others, 1980

Corbitt, LeRoy L.

1977 (Nials, F. L., and Varnell, R. J.) Structure of Brockman Hills, southwestern New Mexico: Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 4, p. 601-607, 4 figs.

1978 (Nials, F. L., and Varnell, R. J.) Laramide thrust faulting, Klondike Hills, southwestern New Mexico: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 297–300, 4 figs., 2 sheets

see Brookins, Rautman, and Corbitt, 1978; and Varnell and others, 1976

Cordell, Linda S.

1976 The Folsom site in retrospect: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 83-86

Cordell, Lindrith

1976a Aeromagnetic and gravity studies of the Rio Grande graben in New Mexico between Belen and Pilar, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 62–70, 10 figs.; Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 580

1976b Aeromagnetic map of the Wheeler-Latir-Costilla section of the Sangre de Cristo Mountains in New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 281-282, 1 fig.

1976c Review of geophysical studies in the Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 580-581

1976d Preliminary complete Bouguer anomaly gravity map of the Taos Basin section of Rio Grande

graben, New Mexico: U.S. Geol. Survey, Open-file Rept. 76-358, scale 1:250,000

1978a Complete Bouguer anomaly gravity map of the Taos Basin section of the Rio Grande rift, New Mexico: U.S. Geol. Survey, Open-file Rept. 78–317, scale 1:250,000

1978b Regional geophysical setting of the Rio Grande rift: Geol. Soc. America, Bull., v. 89, no. 7, p. 1073-1090, 15 figs.

1978c Gravity profile along Tramway Road, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 156–158, 2 figs.

1978d Overview of geophysical studies in the Rio Grande rift, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 28-29

1979a Gravimetric expression of graben faulting in Santa Fe country and the Española Basin, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 59-64, 6 figs.

1979b Aeromagnetic interpretation, in Mineral resources of the White Mountain Wilderness and adjacent areas, Lincoln County, New Mexico: U.S. Geol. Survey, Bull. 1453, p. 15-17

1979c Sedimentary facies and gravity anomaly across master faults of the Rio Grande rift in New Mexico: Geology, v. 7, no. 4, p. 201–205

1979d Rio Grande rift, New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 78

1978 (and Detmering-Beal, Chrys) Principal facts for detailed gravity profile near Albuquerque, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-818, 5 p.

1978 (Keller, G. R., and Hildenbrand, T. G.) Complete Bouguer gravity anomaly map of the Rio Grande rift: U.S. Geol. Survey, Open-file Rept. 78-958, scale 1:1,000,000

see Budding, Robertson, and others, 1979

Corken, R. James

1979 Stratigraphic analysis of the Morrison Formation in the Shiprock-Beautiful Mountain area, northern New Mexico: M.S. thesis, Northern Arizona Univ.

see Huffman, Kirk, and Corken, 1979, 1980

Cornell, William C.

1980 (and Simpson, R. D.) Leonardian radiolarians from the Delaware Basin (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 21

see Chaiffetz and others, 1977; and Nodeland and Cornell, 1976

Correa, B. P.

1980 Fluorine and lithophile element mineralization in the Black Range and Sierra Cuchillo, New Mexico, *in* Uranium mineralization in fluorine-enriched volcanic rocks, D. M. Burt and others: U.S. Dept. Energy, Rept. GJBX-225-80

Cortner, J. C.

see Kauffman and others, 1980

Costin, L. S.

1980 (and Wawersik, W. R.) Creep healing of fractures in salt (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 17, p. 361

Cotter, Donald J.

see Lansford, Chaturvedi, and others, 1980

Coury, Anny B.

1978 (Varnes, K. L., and Allen, R. W.) Geologic appraisal of undiscovered oil and gas resources in Permian rocks of Permian Basin, west Texas and southeastern New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 507

see Dolton, Coury, and others, 1980; and Dolton, Frezon, and Coury, 1979

Covert, L. L.

see Keller, G. R., and Covert, 1977

Cowart, J. B.

see Osmond and Cowart, 1980

Craig, James I.

1977 The mineral industry of New Mexico: U.S. Bureau Mines, Minerals Yearbook, 23 p., 19 tables, 1 fig.

Craig, Lawrence C.

1979 (and Connor, C. W., compilers) Paleotectonic investigations of the Mississippian System in the United States—pt. I, introduction and regional analyses of the Mississippian System; pt. II, interpretive summary and special features of the Mississippian System; pt. III, 15 pls.: U.S. Geol. Survey, Prof. Paper 1010, 559 p.

1979 (and Varnes, K. L.) History of the Mississippian System—an interpretive summary, in Paleotectonic investigations of the Mississippian System in the United States—pt. 2, interpretive summary and special features of the Mississippian System, L. C. Craig and C. W. Connor, compilers: U.S. Geol. Survey, Prof. Paper 1010-R, p. 371-406, 4 figs.

Craigg, Steven D.

1980 Hydrogeology and water resources of the Chico Arroyo/Torreon Wash area, Sandoval and McKinley Counties, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 272 p.

Cramer, Scott

1977 Lazy "J" (Pennsylvanian) field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 130–131, 1 table, 1 fig.

Crawford, George A.

1979 Sedimentology of Goat Seep Dolomite (Guadalupian, Permian), Guadalupe Mountains, west Texas and New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 3, p. 437

Creel, Bobby J.

see Lansford, Chaturvedi, and others, 1980

Cremer, G. M.

1980 (Duffield, R. B., Smith, M. C., and Wilson, M. G.) Hot dry rock geothermal energy development program annual report, fiscal year 1979: Los Alamos Sci. Lab., Rept. LA-8280-HDR, 248 p.

Cress, R. H.

1977 Indian Draw Delaware field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 124–125, 1 table, 1 fig.

Crewdson, R. A.

see Keller, G. V., Grose, and Crewdson, 1978

Crim, W. C.

see Watts, Alminas, Nishi, and Crim, 1978a-c

Crocket, J. H.

see Helsen and others, 1978

Cromwell, D. W.

1979 Indian Draw Delaware field—a model for deeper Delaware sand exploration, in Guadalupian Delaware Mountain Group of west Texas and southeast New Mexico, N. M. Sullivan, editor: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., p. 142-152

Cross, C.

see Wilshire and others, 1977

Crossey, Laura J.

1979 Intraflow chemical variations in Servilleta basalts—Taos Plateau, New Mexico: M.S. thesis, Washington Univ. (St. Louis, Missouri)

Crough, S. Thomas

1980 (Morgan, W. J., and Hargraves, R. B.) Kimberlites—their relationship to mantle hotspots: Earth and Planet. Sci. Letters, v. 50, no. 1, p. 260-274, 3 tables, 6 figs.

Crowe, B. M.

1978 (Eddy, A. C., Eichelberger, J., and others) Hot dry rock resource assessment and site selection: Los Alamos Sci. Lab., Rept. 7109, p. 13-41

Crowley, Charles J.

1977 Developments in Four Corners-intermountain area in 1976: Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 8, p. 1204-1207, 2 tables, 1 fig.

1978 Developments in Four Corners-intermountain area in 1977: Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 8, p. 1360-1363, 2 tables, 1 fig.

Crowley, Dennis

1977 West Knowles Drinkard field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 126–127, 1 table, 1 fig.

Crowley, J. A.

see McElhinny and others, 1980

Crumpler, L. S.

1976 Alkalic basalt-trachyte suite, Mount Taylor volcanic field, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 581

1977 Alkali basalt-trachyte suite and volcanism, northern part of the Mount Taylor volcanic field, New Mexico: M.S. thesis, Univ. New Mexico, 131 p.

1978 Mount Taylor composite volcano, New Mexico—geology of the north and west flanks: Geol. Soc. America, Abs. with Programs, v. 10, no. 3, p. 101

1980 An alkali-basalt through trachyte suite, Mesa Chivato, Mount Taylor volcanic field, New Mexico: Geol. Soc. America, Bull., v. 91, no. 5, pt. I, p. 253–255, pt. II, p. 1293–1331

see Aubele and others, 1976; and Brookins, Crumpler, and Elston, 1977

Cruz, R. R.

1976 Annual water-resources review, White Sands Missile Range, 1975—a basic-data report (abs.): Sel. Water Resources Abs., v. 9, no. 15, p. 29

1977 Annual water-resources review, White Sands Missile Range, 1976—a basic-data report: U.S. Geol. Survey, Open-file Rept. 77-330, 27 p., 4 tables, 7 figs.

1978 Annual water-resources review, White Sands Missile Range, New Mexico, 1977—a hydrologic-data

report: U.S. Geol. Survey, Open-file Rept. 78-553, 42 p., 5 tables, 13 figs.

1979 Annual water-resources review, White Sands Missile Range, New Mexico, 1978: U.S. Geol. Survey, Open-file Rept. 79-985, 33 p., 5 tables, 10 figs.

1980 Annual water-resources review, White Sands Missile Range, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-753, 28 p.

Cull, C.

see O'Connor and Cull, 1977

Cummings, R. G.

1979 (and others) Economic factors relevant for electric power produced from hot dry rock geothermal resources—a case study for the Fenton Hill, New Mexico area: Natl. Tech. Inf. Serv., Rept. DOE/ET/27017-T1, 45 p.

see Tester, Morris, and others, 1979

Cunningham, C. P.

1978 Hydrocarbon source-rock evaluation study, Sunray Mid-Continent oil company Federal M No. 1 well, Sierra County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 157, 44 p., 7 tables, 4 figs.

Cunningham, John E.

1979 Revision of Tertiary volcanics in Geologic Map 30: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 104, scale 1:48,000

Cunningham, M. P.

1977 Geothermometry of spinel lherzolites, Kilbourne Hole, New Mexico: B.S. paper, Univ. Western Ontario

Cunningham, S. Blaze

see Jenkins, J. T., and Cunningham, 1979, 1980

Currey, F. E.

see Healey and others, 1978

Curtis, D. M.

1978 (compiler) Depositional environments and paleoecology—environmental models in ancient sediments: Soc. Econ. Paleontologists and Mineralogists, Reprint Ser. 6, 239 p.

Curtis, H. S.

see Adams, S. S., and others, 1978

Curtis, N. L.

see Patterson, E. D., Curtis, and DeCicco, 1978

Curtis, N. M., Jr.

1976 Erosion and sediment yield in New Mexico: Fed. Inter-Agency Sediment. Conf., Proc., no. 3, p. 1.81-1.90

Cushman, R. L.

1976 (and Purtymun, W. D.) Evaluation of yield and water-level relations (abs.): Sel. Water Resources Abs., v. 9, no. 10, p. 30

Cwik, M. J.

see Reynolds, J. F., and others, 1978

Cys, John M.

1977a Lower and middle Paleozoic stratigraphy of the Tatum Basin, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 1-17, 1 table, 12 figs.

1977b South Prairie Devonian field, Roosevelt County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 154–155, 1 table, 1 fig.

1977c East Shoe Bar Devonian, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 176–177, 1 table, 1 fig.

1977 (Brezina, J. L., and Greenwood, E.) Capitan "reef"—evolution of a concept (abs.): Am. Assoc.

Petroleum Geologists, Bull., v. 61, p. 294

1976 (Greenwood, E., and Brezina, J. L.) Capitan "reef"—evolution of concept (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 60, no. 4, p. 661-662

1977 (and Mazzullo, S. J.) Biohermal submarine cements, Laborcita Formation (Permian), northern Sacramento Mountains, New Mexico, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 43-55, 22 figs.

1977 (and others) Capitan reef—evolution of a concept: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977

field conf., v. 1, p. 201-321

see Mazzullo and Cys, 1977, 1978a,b, 1979a,b; and Toomey and Cys, 1977a,b, 1979

Daggett, Paul H.

1977 (and Brown, L. F.) Gravity investigation in central Doña Ana County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 14-15

Dames and Moore

1979a Coal resource occurrence and coal development potential maps of the Lybrook NW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0107, 25 p., 11 sheets, scale 1:24,000 [1982]

1979b Coal resource occurrence and coal development potential maps of the Lybrook quadrangle, Sandoval, Rio Arriba, and San Juan Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0108, 24 p., 11 sheets, scale 1:24,000 [1981]

1979c Coal resource occurrence and coal development potential maps of the Counselor quadrangle, Sandoval and Rio Arriba Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0109, 16 p., 6 sheets, scale 1:24,000 [1981]

1979d Coal resource occurrence and coal development potential maps of the Fire Rock Well quadrangle, San Juan, McKinley, and Sandoval Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0110, 31 p., 18 sheets, scale 1:24,000 [1982]

1979e Coal resource occurrence and coal development potential maps of the Lybrook SE quadrangle, Sandoval, McKinley, and San Juan Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0111, 27 p., 15 sheets, scale 1:24,000 [1982]

1979f Coal resource occurrence and coal development potential maps of the Mule Dam quadrangle, Sandoval County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0112, 26 p., 14 sheets, scale 1:24,000 [1982]

1979g Coal resource occurrence and coal development potential maps of the Pueblo Pintado quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0113, 25 p., 12 sheets, scale 1:24,000 [1982]

1979h Coal resource occurrence and coal development potential maps of the Pueblo Alto Trading Post quadrangle, McKinley and Sandoval Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0114, 31 p., 17 sheets, scale 1:24,000 [1982]

1979i Coal resource occurrence and coal development potential maps of the Star Lake quadrangle, McKinley and Sandoval Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0115, 31 p., 17 sheets, scale 1:24,000 [1982]

1979j Coal resource occurrence and coal development potential maps of the Huerfano Trading Post SW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0152, 25 p., 13 sheets, scale 1:24,000 [1981]

1979k Coal resource occurrence and coal development potential maps of the Blanco Trading Post quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0153, 23 p., 9 sheets, scale 1:24,000 [1981]

1979I Coal resource occurrence and coal development potential maps of the Pueblo Bonito NW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0154, 31 p., 19 sheets, scale 1:24,000 [1982]

1979m Coal resource occurrence and coal development potential maps of the Kimbeto quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Openfile Rept. 79-0155, 25 p., 11 sheets, scale 1:24,000 [1982]

1979n Coal resource occurrence and coal development potential maps of the Pueblo Bonito quadrangle, San Juan and McKinley Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0156, 19 p., 3 sheets, scale 1:24,000 [1981]

1979o Coal resource occurrence and coal development potential maps of the Sargent Ranch quadrangle, San Juan and McKinley Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0157, 23 p., 9 sheets, scale 1:24,000 [1981]

1979p Coal resource occurrence and coal development potential maps of the Deer Mesa quadrangle, Sandoval County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0158, 26 p., 11 sheets, scale 1:24,000 [1981]

1979q Coal resource occurrence and coal development potential maps of the Taylor Ranch quadrangle, Sandoval County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0159, 13 p., 3 sheets, scale 1:24,000 [1981]

1979r Coal resource occurrence and coal development potential maps of the Arroyo Chijuillita quadrangle, Sandoval County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0160, 14 p., 3 sheets, scale 1:24,000 [1981]

1979s Coal resource occurrence and coal development potential maps of the Ojo Encino Mesa quadrangle, McKinley and Sandoval Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0161, 30 p., 12 sheets, scale 1:24,000 [1982]

1979t Coal resource occurrence and coal development potential maps of the Bisti Trading Post quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0601, 27 p., 12 sheets, scale 1:24,000 [1982]

1979u Coal resource occurrence and coal development potential maps of the Alamo Mesa West quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0602, 34 p., 20 sheets, scale 1:24,000 [1981]

1979v Coal resource occurrence and coal development potential maps of the Alamo Mesa East quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0603, 28 p., 16 sheets, scale 1:24,000 [1982]

1979w Coal resource occurrence and coal development potential maps of the Pillar 3 NE quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0604, 24 p., 8 sheets, scale 1:24,000 [1982]

1979x Coal resource occurrence and coal development potential maps of the Tanner Lake quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0605, 35 p., 25 sheets, scale 1:24,000 [1982]

1979y Coal resource occurrence and coal development potential maps of the Pretty Rock quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0606, 31 p., 23 sheets, scale 1:24,000 [1982]

1979z Coal resource occurrence and coal development potential maps of the Llaves SW quadrangle, Rio Arriba County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0608, 19 p., 12 sheets, scale 1:24,000 [1981]

1979aa Coal resource occurrence and coal development potential maps of the Regina quadrangle, Rio Arriba and Sandoval Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0609, 10 p., 2 sheets, scale 1:24,000 [1981]

1979bb Coal resource occurrence and coal development potential maps of the Gallegos Trading Post quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0610, 24 p., 13 sheets, scale 1:24,000 [1981]

1979cc Coal resource occurrence and coal development potential maps of the Bloomfield SW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0611, 21 p., 16 sheets, scale 1:24,000 [1981]

1979dd Coal resource occurrence and coal development potential maps of the Huerfano Trading Post NW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0612, 27 p., 16 sheets, scale 1:24,000 [1981]

1979ee Coal resource occurrence and coal development potential maps of the Bloomfield SE quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0613, 21 p., 17 sheets, scale 1:24,000 [1981]

1979ff Coal resource occurrence and coal development potential maps of the Gould Pass SW quadrangle, San Juan and Rio Arriba Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0614, 21 p., 17 sheets, scale 1:24,000 [1981]

1979gg Coal resource occurrence and coal development potential maps of the Gould Pass SE quadrangle, Rio Arriba and San Juan Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0615, 19 p., 13 sheets, scale 1:24,000 [1981]

1979hh Coal resource occurrence and coal development potential maps of the Santos Peak quadrangle,

Rio Arriba County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0616, 20 p., 16 sheets, scale 1:24,000 [1981]

1979ii Coal resource occurrence and coal development potential maps of the Huerfano Trading Post quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0617, 18 p., 13 sheets, scale 1:24,000 [1981]

1979jj Coal resource occurrence and coal development potential maps of the Nageezi NW quadrangle, San Juan and Rio Arriba Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0618, 21 p., 21 sheets, scale 1:24,000 [1981]

1979kk Coal resource occurrence and coal development potential maps of the SW quarter of the Nageezi 15-minute quadrangle, San Juan and Rio Arriba Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0621, 18 p., 9 sheets, scale 1:24,000 [1981]

1979II Coal resource occurrence and coal development potential maps of the Tafoya Canyon quadrangle, Rio Arriba County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0622, 14 p., 7 sheets, scale 1:24,000 [1981]

1979mm Coal resource occurrence and coal development potential maps of the Waterflow quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0793, 30 p., 21 sheets, scale 1:24,000 [1982]

1979nn Coal resource occurrence and coal development potential maps of the Fruitland quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Openfile Rept. 79-0794, 20 p., 7 sheets, scale 1:24,000 [1982]

197900 Coal resource occurrence and coal development potential maps of the Kirtland quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Openfile Rept. 79-0795, 25 p., 17 sheets, scale 1:24,000 [1982]

1979pp Coal resource occurrence and coal development potential maps of the Farmington South quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0796, 22 p., 13 sheets, scale 1:24,000 [1981]

1979qq Coal resource occurrence and coal development potential maps of the Horn Canyon quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0797, 18 p., 12 sheets, scale 1:24,000 [1981]

1979rr Coal resource occurrence and coal development potential maps of the Bloomfield NW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0798, 21 p., 17 sheets, scale 1:24,000 [1981]

1979ss Coal resource occurrence and coal development potential maps of the Bloomfield NE quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0799, 23 p., 21 sheets, scale 1:24,000 [1981]

1979tt Coal resource occurrence and coal development potential maps of the Gould Pass NW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0800, 24 p., 28 sheets, scale 1:24,000 [1981]

1979uu Coal resource occurrence and coal development potential maps of the NE quarter of the Gould Pass 15-minute quadrangle, Rio Arriba and San Juan Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0801, 20 p., 16 sheets, scale 1:24,000 [1981]

1979vv Coal resource occurrence and coal development potential maps of the Kirtland SE quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0802, 23 p., 8 sheets, scale 1:24,000 [1981]

1979ww Coal resource occurrence and coal development potential maps of the Hugh Lake quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0803, 23 p., 14 sheets, scale 1:24,000 [1981]

1979xx Coal resource occurrence and coal development potential maps of the Pillar quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Openfile Rept. 79-0804, 30 p., 29 sheets, scale 1:24,000 [1981]

1979yy Coal resource occurrence and coal development potential maps of the Moncisco Wash quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0805, 28 p., 28 sheets, scale 1:24,000 [1981]

1979zz Coal resource occurrence and coal development potential maps of the Carson Trading Post quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0806, 28 p., 17 sheets, scale 1:24,000 [1981]

1979aaa Coal resource occurrence and coal development potential maps of the Johnson Trading Post quadrangle, Sandoval County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0808, 21 p., 6 sheets, scale 1:24,000 [1982]

1979bbb Coal resource occurrence and coal development potential maps of the Mesa Portales quadrangle, Sandoval County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-0809, 21 p., 6 sheets, scale 1:24,000 [1982]

1979ccc Coal resource occurrence and coal development potential maps of the La Plata quadrangle, San Juan County, New Mexico, and La Plata County, Colorado: U.S. Geol. Survey, Open-file Rept. 79-1110, 30 p., 17 sheets, scale 1:24,000 [1982]

1979ddd Coal resource occurrence and coal development potential maps of the Adobe Downs Ranch quadrangle, San Juan County, New Mexico, and La Plata County, Colorado: U.S. Geol. Survey, Openfile Rept. 79-1111, 23 p., 24 sheets, scale 1:24,000 [1982]

1979eee Coal resource occurrence and coal development potential maps of the Aztec NW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1112, 21 p., 20 sheets, scale 1:24,000 [1981]

1979fff Coal resource occurrence and coal development potential maps of the Aztec NE quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1113, 19 p., 11 sheets, scale 1:24,000 [1981]

1979ggg Coal resource occurrence and coal development potential maps of the Youngs Lake quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1114, 25 p., 13 sheets, scale 1:24,000 [1981]

1979hhh Coal resource occurrence and coal devel-

opment potential maps of the Farmington North quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1115, 19 p., 12 sheets, scale 1:24,000 [1981]

1979iii Coal resource occurrence and coal development potential maps of the Flora Vista quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1116, 18 p., 9 sheets, scale 1:24,000 [1981]

1979jjj Coal resource occurrence and coal development potential maps of the Aztec SW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1117, 23 p., 20 sheets, scale 1:24,000 [1981]

1979kkk Coal resource occurrence and coal development potential maps of the Aztec SE quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1118, 23 p., 27 sheets, scale 1:24,000 [1981]

1979III Coal resource occurrence and coal development potential maps of the Navajo Dam SW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1119, 24 p., 28 sheets, scale 1:24,000 [1981]

1979mmm Coal resource occurrence and coal development potential maps of the Pine River quadrangle, Rio Arriba and San Juan Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1120, 25 p., 31 sheets, scale 1:24,000 [1982]

1979nnn Coal resource occurrence and coal development potential maps of the Nageezi SE quadrangle, Rio Arriba and San Juan Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1121, 18 p., 12 sheets, scale 1:24,000 [1981]

Damon, Paul E.

1976 Mid-Tertiary ash flows of the southern Basin and Range province—time, space, chemistry, and genesis (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 581-582

see Baldridge, Damon, and others, 1980; Deal, Elston, and others, 1978; Kudo and others, 1977; Laughlin, Brookins, and Damon, 1976; and Laughlin, Brookins, Damon, and Shafiqullah, 1979 Danilchik, W.

see Freeman and Danilchik, 1979; and Roehler and

Danilchik, 1980 Dansereau, Danny A.

1978 (and Wynn, J. C.) Principal facts for gravity stations in the Hillsboro and San Lorenzo quadrangles, Grant and Sierra Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-541, 10 p., 1 fig.

see Wynn and Dansereau, 1978, 1979

Dantin, E. J.

see Babcock, R. E., and others, 1978

Darden, Jack M.

1977 Bar-U field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 56-57, 1 table, 1 fig.

Dauchy, J.

1976 (and Brandvold, L. A.) A selected trace metal profile of the Rio Grande in New Mexico (abs.): 2nd Pacific Conf. on Chemistry and Spectroscopy, Abs., p. 17

David, Edward K.

1977a, Haystack Cisco (gas) field, Chaves County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 112–113, 1 table, 1 fig.

1977b Haystack Siluro-Devonian field, Chaves County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 114-115, 1 table. I fig.

1977c Springs Upper Penn gas field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 188–189, 1 table, 1 fig.

1977a (and others) Fowler Upper Yeso Pool, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 94–95, 1 table, 1 fig.

1977b (and others) Goodwin Abo field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 104–105, 1 table, 1 fig.

1977c (and others) Goodwin Drinkard field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 106–107, 1 table, 1 fig.

see Kinchloe and David, 1977

David, W. Phelps

1980 (Blanchard, D. P., and Stormer, J. C., Jr.) Apatite and hornblende REE distribution coefficients in a mafic dacite and implications for the role of apatite fractionation in the genesis of siliceous rocks (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 498

Davis, Beth Ogden

see Finch and others, 1976

Davis, Donald G.

1979 Geology and speleogenesis of Ogle Cave—discussion: Natl. Speleological Soc., Bull., v. 41, no. 1, p. 21-22

1980 Cave development in the Guadalupe Mountains—a critical review of recent hypotheses: Natl. Speleological Soc., Bull., v. 42, no. 3, p. 42-48

Davis, G. H.

1978 Monocline fold pattern of the Colorado Plateau: Geol. Soc. America, Mem. 151, p. 215-233

Davis, G. L.

1978 (and Grew, E. S.) Age of zircon from a crustal xenolith, Kilbourne Hole, New Mexico: Carnegie Inst. Washington, Yearbook 77, p. 897–898

Davis, Harold

1978 New ways sought to move longwalls: Coal Age, v. 83, no. 7, p. 162–168, 14 figs.

Davis, Thomas L.

1979 (and Stoughton, Dean) Interpretation of seismic reflection data from the northern San Luis Valley, south-central Colorado, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 186–194, 8 figs.

Day, J. C.

1978 International aquifer management—the

Hueco Bolson on the Rio Grande river: Natural Resources Jour., v. 18, no. 1, p. 163-180

Deal, Edmond G.

1978 Geology of San Mateo Mountains, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 97-98

1978 (Elston, W. E., Erb, E. E., Peterson, S. L., Reiter, D. E., Damon, P. E., and Shafiqullah, M.) Cenozoic volcanic geology of the Basin and Range province in Hidalgo County, southwestern New Mexico: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 219-229, 1 table, 5 figs.

1976 (and Rhodes, R. C.) Volcano-tectonic structures in the San Mateo Mountains, Socorro County, New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 51–56, 2 tables, 5 figs.

see Chapin and Deal, 1976; Elston, Erb, and Deal, 1979; Elston, Rhodes, Coney, and Deal, 1976; Keith, Wilt, and others, 1978; and Smith, E. I., and others, 1976

Dean, Walter E.

1978 Mineralogy and geochemistry of the Ciniza Lake beds and related strata, in Geology, paleontology, and paleoecology of a Late Triassic lake, western New Mexico: Brigham Young Univ., Geology Studies, p. 15-19, 4 tables, 2 figs.

1980 Salinity cycles in the Permian Castile Formation, Delaware Basin, Texas and New Mexico: West Texas Geol. Soc., Newsletter, v. 20, no. 5

1978a (and Anderson, R. Y.) Salinity cycles—evidence for subaqueous deposition of Castile Formation and lower part of Salado Formation, Delaware Basin, Texas and New Mexico, *in* Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 15-20, 6 figs.

1978b (and Anderson, R. Y.) Continuous subaqueous deposition of the Castile and lower Salado Formations, Delaware Basin, Texas and New Mexico (abs.): 10th Internat. Congr. on Sedimentology, v. 1, p. 157

see Ash, Dean, and others, 1978

DeCicco, D. A.

1979a (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the Saint Johns quadrangle, Arizona and New Mexico: U.S. Geol. Survey, Open-file Rept. 79–731, scale 1:250,000

1979b (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the Roswell quadrangle, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-734, scale 1:250,000

1979c (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the Carlsbad quadrangle, New Mexico and Texas: U.S. Geol. Survey, Open-file Rept. 79-735, scale 1:250,000

1979d (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the Hobbs quadrangle, New Mexico and Texas: U.S.

Geol. Survey, Open-file Rept. 79-736, scale 1:250,000

1980a (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the Brownfield quadrangle, Texas, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-103, scale 1:250,000

1980b (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the Santa Fe quadrangle, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-104, scale 1:250,000

1980c (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the Clovis quadrangle, New Mexico, Texas: U.S. Geol. Survey, Open-file Rept. 80-255, scale 1:250,000

1980d (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the El Paso quadrangle, Texas, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-256, scale 1:250,000

1980e (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the Las Cruces quadrangle, New Mexico, Texas: U.S. Geol. Survey, Open-file Rept. 80–257, scale 1:250,000

1980f (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the Douglas quadrangle, Arizona, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-493, scale 1:250,000

1980g (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the Fort Sumner quadrangle, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-494, scale 1:250,000

1980h (and Patterson, E. D., compilers) Leasable mineral and waterpower land classification map of the Tucumcari quadrangle, New Mexico, Texas: U.S. Geol. Survey, Open-file Rept. 80-495, scale 1:250,000

1978a (Patterson, E. D., and Lutz, G. A., compilers) Leasable mineral and waterpower land classification map of the Albuquerque quadrangle, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-475, scale 1:250,000

1978b (Patterson, E. D., and Lutz, G. A., compilers) Leasable mineral and waterpower land classification map of the Aztec quadrangle, New Mexico, Colorado: U.S. Geol. Survey, Open-file Rept. 78-476, scale 1:250,000

1978c (Patterson, E. D., and Lutz, G. A., compilers) Leasable mineral and waterpower land classification map of the Shiprock quadrangle, New Mexico, Arizona, Colorado, and Utah: U.S. Geol. Survey, Open-file Rept. 78-478, scale 1:250,000

1978d (Patterson, E. D., and Lutz, G. A., compilers) Leasable mineral and waterpower land classification map of the Raton quadrangle, New Mexico, Colorado: U.S. Geol. Survey, Open-file Rept. 78-698, scale 1:250,000

1979 (Patterson, E. D., and Lutz, G. A., compilers) Leasable mineral and waterpower land classification map of the Socorro quadrangle, New Mexico: U.S. Geol. Survey, Open-file Rept. 79–732, scale 1:250,000

1980 (Patterson, E. D., and Lutz, G. A., compilers) Leasable mineral and waterpower land classification map of the Raton 1° by 2° quadrangle, New Mexico and Colorado: U.S. Geol. Survey, Misc. Inv. Ser., Map I-1226, scale 1:250,000

1980 (Patterson, E. D., and Morgan, R. D., compilers) Leasable mineral and waterpower land classifi-

cation map of the Silver City quadrangle, New Mexico, Arizona: U.S. Geol. Survey, Open-file Rept. 80-492, scale 1:250,000

1980 (Patterson, E. D., and Robinson, K. M., compilers) Leasable mineral and waterpower land classification map of the Dalhart quadrangle, Texas, New Mexico, Oklahoma, Colorado, Kansas: U.S. Geol. Survey, Open-file Rept. 80-496, scale 1:250,000

1980 (Patterson, E. D., and Yamamoto, G. S., compilers) Leasable mineral and waterpower land classification map of the Clifton quadrangle, Arizona, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-254, scale 1:250,000

see Banaszynski and others, 1979; and Patterson, E. D., Curtis, and DeCicco, 1978

Decker, Edward R.

1977 (and Smithson, S. B.) Review of the significance of geothermal and gravity studies in the southern Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 15

see Cook, Decker, and Smithson, 1978; and Cook, McCullar, and others, 1979

Decker, R. S.

see McDaniel and Decker, 1979

Dein, W. K.

see White, R. R., and Dein, 1980

De Keyser, Thomas L.

1979 The Early Mississippian of the Sacramento Mountains, New Mexico—an ecofacies model for carbonate shelf margin deposition: Ph.D. thesis, Oregon State Univ., 323 p.; Dissert. Abs. Internat., v. 39, no. 7, p. 4234-B

see Lane and De Keyser, 1979

Delaney, Paul T.

1980 Magma flow, heat transport and brecciation of host rocks during dike emplacement near Shiprock, New Mexico: Ph.D. thesis, Stanford Univ., 262 p.; Dissert. Abs. Internat., v. 41, no. 5, p. 1685-B-1686-B

1978 (and Pollard, D. D.) Basaltic subvolcanic conduits near Shiprock, New Mexico—magma flow, heat transport, and brecciation of host rocks (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1212 see Pollard and Delaney, 1976, 1978

Delgado, David J.

1977a Conglomeratic lithofacies of the Laborcita and Abo Formations (Wolfcampian), north-central Sacramento Mountains—sedimentology and tectonic importance, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 90-101, 2 tables, 3 figs.

1977b Paleocaliche textures from Wolfcampian strata of the Sacramento Mountains, New Mexico, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 102-108, 8 figs.

1977 (and Pray, L. C.) Stop C-3, the Laborcita Formation, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 173-174, 2 figs.

Della Valle, Richard S.

1980a (and Brookins, D. G.) Geochemical studies

of Grants mineral belt, *abs. in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 399; Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 9; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 687

1980b (and Brookins, D. G.) Rare earth element, thorium and uranium trends in Jurassic and Cretaceous rocks, northwestern New Mexico—implications for uranium ore genesis in the Grants mineral belt (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 411

see Bornhorst, Elston, and Della Valle, 1980; Brookins and Della Valle, 1977, 1979; Brookins, Della Valle, and Balagna, 1979; Brookins, Della Valle, and Lee, 1977, 1978a,b; Brookins, Della Valle, and Register, 1980; Hicks, R. T., and others, 1979, 1980; Place and others, 1979, 1980; Register, M. E., Brookins, and Della Valle, 1978; and Riese, Brookins, and Della Valle, 1978, 1979, 1980

Dellechaie, F.

1973 Chemical and petrographic variations in the Cerro Colorado and Paxton Springs basalt flows, Valencia County, New Mexico: M.S. thesis, Kent State Univ.

1977 A geological and hydro-geochemical study of the Animas geothermal area, Hidalgo County, New Mexico: Geothermal Resources Coun., Ann. Mtg. Trans., p. 73-75

DeMark, R. S.

1980 The Red Cloud mines, Gallinas Mountains, New Mexico: Mineral. Record, v. 11, no. 2, p. 69-72 **DeMaster, D. J.**

see Nozaki, DeMaster, Benninger, and others, 1977; and Nozaki, DeMaster, Lewis, and Turekian, 1978

Denison, Rodger, E.

1980 Pre-Bliss rocks in the Van Horn region, Trans-Pecos Texas: New Mexico Geol. Soc., Guidebook 31st field conf., Trans-Pecos, p. 155-158, 2 figs.

Dennis, Bert R.

1978 (and Horton, E. H.) Hot dry rock, an alternative geothermal energy resource—a challenge for instrumentation: Natl. Tech. Inf. Serv., Rept. LA-UR-78-707, 14 p.; *abs. in* New Mexico Geology, 1979, v. 1, no. 1, p. 16

1978 (Miles, D. J., Pettitt, R. A., and others) Drilling and fracturing [hot dry rock]: Los Alamos Sci. Lab., Rept. 7109, p. 67–78

1978 (and Murphy, H. D.) Borehole temperature survey analysis, hot dry rock geothermal reservoir: Natl. Tech. Inf. Serv., Rept. LA-UR-78-905, 5 p.; abs. in New Mexico Geology, 1979, v. 1, no. 2, p. 31

Dennis, John G. 1978 (and Häll, Rolf) Jura-tyr

1978 (and Häll, Rolf) Jura-type folds—a centrifuge experiment: Tectonophysics, v. 45, no. 2/3, p. T15-T25, 7 figs.

Denton, E. H.

see Reimer and others, 1979

Depetro, Lynne M.

see Owen, Walters, Depetro, and Turmelle, 1978

De Simpson, Ronald

1976 Systematic paleontology and paleoenviron-

mental analysis of the Hueco Formation, Robledo and Doña Ana Mountains, Doña Ana County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 66, 267 p., 6 pls., 1 table, 5 figs., 2 appendices; M.S. thesis, Univ. Texas

Des Marais, David J.

1980 (Mitchell, J. M., Meinschein, W. G., and Hayes, J. M.) The carbon isotope biogeochemistry of the individual hydrocarbons in bat guano and the ecology of the insectivorous bats in the region of Carlsbad, New Mexico: Geochim. et Cosmochim. Acta, v. 44, no. 12, p. 2075–2086

Detmering-Beal, Chrys

see Cordell and Detmering-Beal, 1978

Devine, Paul E.

1980 Depositional patterns in the Point Lookout Sandstone, northeast San Juan Basin, New Mexico: M.S. thesis, Univ. Texas (Austin)

DeVoto, Richard H.

1979 (and Mead, R. H.) Use of helium in uranium exploration, Grants district, New Mexico, *abs. in* Grants uranium region, a symposium: Am. Assoc. Petroleum Geologists, Program, p. 10

1977 (Mead, R. H., Bergquist, L. E., and Martin, J. P.) Helium detection in uranium exploration (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 8, p. 1376

1980 (Mead, R. H., Martin, J. P., and Bergquist, L. E.) Use of helium in uranium exploration, Grants district, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 368-379, 12 figs.

Dewey, J. D.

1979 (Roybal, F. E., and Funderburg, D. E.) Hydrologic data on channel adjustments, 1970 to 1975, on the Rio Grande downstream from Cochiti Dam, New Mexico, before and after closure: Natl. Tech. Inf. Serv., Rept. PB-301 134, 540 p.; U.S. Geol. Survey, Water-resources Inv. 79-70, 540 p.

Dewey, James W.

see Herrmann, Dewey, and Park, 1980

Dhingra, K. C.

see Hsu and others, 1978

Dickerson, Patricia W.

1980 (and Hoffer, J. M., editors) Trans-Pecos region, southeastern New Mexico and west Texas: New Mexico Geol. Soc., Guidebook 31st field conf., Trans-Pecos, 314 p.

Dickey, D. D.

see Wright, J. C., and Dickey, 1979a,b; and Wright, J. C., Dickey, and Freeman, 1979

Dickinson, William R.

1979 (and Suczek, C. A.) Plate tectonics and sandstone compositions: Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 12, p. 2164-2182, 1 table, 7 figs.

see Snyder, W. S., and others, 1976

Diemer, R. A.

1980 (Gibson, W. R., and Miller, H. A., Jr.) Developments in west Texas and eastern New Mexico in 1979: Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 9, p. 1369–1376, 4 tables, 5 figs.

Dimitrijevich, I. J.

1976 (G'Schwind, J. J., and Treiber, J. A.) Gravi-

metric parameters (ζ, ξ, η) for the Redondo Peak region of New Mexico, as calculated from terrain corrected gravity anomalies (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 234

DiPippo, R.

1978 Geothermal power plants of the United States—a technical survey of existing and planned installations: Natl. Tech. Inf. Serv., Rept. COO-4051-20, 129 p.

Djeddi, Rabah

1979 An integrated geophysical and geological study of the deep structure and tectonics of the Permian Basin of west Texas and southeastern New Mexico: M.S. thesis, Univ. Texas (El Paso)

see Keller, G. R., Hills, and Djeddi, 1980a, b

Dobson, Steven W.

see Marvin and Dobson, 1979

Dobyns, H. F.

1978 Who killed the Gila?: Jour. Arizona History, v. 19, no. 1, p. 17-30; Sel. Water Resources Abs., v. 11, no. 18, p. 49

Dodge, William S.

1979 Flow direction studies of mid-Tertiary volcanic rocks, southwest New Mexico, and early Paleozoic rocks of the Carolina slate belt, North Carolina: M.S. thesis, North Carolina State Univ.

Dodson, J. G.

see Sibbitt and others, 1978, 1979

Doe, B. R.

1979 The application of lead isotopes to mineral prospect evaluation of Cretaceous-Tertiary magmatothermal ore deposits in the western United States: Internat. Geochem. Explor. Symp., Proc., no. 7, p. 227-232

Dollase, W. A.

1978 (and Thomas, W. M.) The crystal chemistry of silica-rich, alkali-deficient nepheline: Contr. Mineralogy and Petrology, v. 66, no. 3, p. 311-318, 3 tables, 1 fig.

Dolphin, Lambert T.

1978 (Beatty, W. B., and Tanzi, J. D.) Radar probing of Victorio Peak, New Mexico: Geophysics, v. 43, no. 7, p. 1441-1448, 1 table, 6 figs.

Dolton, Gordon L.

1980 (Coury, A. B., Frezon, S. E., Robinson, K. M., Varnes, K. L., Wunder, J. M., and Allen, R. W.) Estimates of undiscovered oil and gas, Permian Basin of west Texas and southeast New Mexico: U.S. Geol. Survey, Open-file Rept. 79-838, 118 p.

1979 (Frezon, S. E., and Coury, A. B.) Oil and gas resources of Permian Basin, west Texas and southeastern New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 29–30

1978 (and Wunder, J. M.) Geologic appraisal of undiscovered oil and gas resources in pre-Mississippian rocks of Permian Basin, west Texas and southeastern New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 509-510

Donaldson, David A.

see Arnold, Hill, and Donaldson, 1980; Arnold, Hill, Donaldson, and Foster, 1977; and Arnold, Hill, Donaldson, and others, 1978

Dondanville, Richard F.

1979 Geologic characteristics of Valles caldera geothermal system in New Mexico (abs.): Am. Assoc.

Petroleum Geologists, Bull., v. 63, no. 5, p. 825-826 Donze, Martin A.

1980 Geology of the Squaw Peak area, Magdalena Mountains, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 123, 131 p., 21 figs., 2 sheets, 3 appendices; M.S. thesis, New Mexico Inst. Mining and Tech.

Dosch, R. G.

1979 Radionuclide migration studies associated with the WIPP site in southern New Mexico, *in* Scientific basis for nuclear waste management—v. 1, G. J. McCarthy, editor: New York, Plenum Press, p. 395-398

Douglas, A.

see Thomas, J. H., and others, 1978

Douglas, D. D.

see Albright and others, 1978

Dowis, J. E.

see Abel and others, 1979

Dragon, J. C.

see Saito, Basu, and others, 1977

Drake, J.

1979 Gravity values in the Rocky Mountain Front Range, northern New Mexico and southern Colorado (abs.): Colorado-Wyoming Acad. Sci., Jour., v. 11, no. 1, p. 56

Dreesen, D. R.

1978 (Wangen, L. E., Gladney, E. S., and others) Solubility of trace elements in coal fly ash: Natl. Tech. Inf. Serv., Rept. CONF-760429, p. 240-250 see Purtymun, Dreesen, and Weinke, 1977

Dreicer, Mona

see Hakonson, White, and others, 1980

Drew, L. J.

1979a (Root, D. H., and Bawiec, W. J.) Estimating future rates of petroleum discoveries in the Permian Basin: Am. Inst. Mining, Metall., Petroleum Engineers, Soc. Petroleum Engineers, Symp. on Hydrocarbon Econ. and Eval., p. 101-106

1979b (Root, D. H., and Bawiec, W. J.) Forecasting rates of petroleum discovery in the Permian Basin, *abs. in* Computer methods for petroleum geologists: West Virginia Geol. and Econ. Survey, Circ. 15, p.9

Drew, Roy H.

see Robinson, K., and others, 1978

Drewes, Harald

1978 Tectonic setting of the prophyry copper deposits of southeastern Arizona and some adjacent areas (abs.): Arizona Geol. Soc., Digest, v. 11, p. 91-92

1978 (and Thorman, C. H.) Major geologic structures between Lordsburg, New Mexico, and Tucson, Arizona: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 291-295, 1 fig.

1980a (and Thorman, C. H.) Geologic map of the Cotton City quadrangle and the adjacent part of the Vanar quadrangle, Hidalgo County, New Mexico: U.S. Geol. Survey, Misc. Inv. Ser., Map I-1221, scale 1:24,000

1980b (and Thorman, C. H.) Geologic map of the Steins quadrangle, and the adjacent part of the Vanar quadrangle, Hidalgo County, New Mexico: U.S. Geol. Survey, Misc. Inv. Ser., Map I-1220, scale 1:24,000

see Repetski and Drewes, 1979; and Thorman and Drewes, 1978a, b, 1979a, b, 1980

Drill Bit

1978 Delaware northwest trend theory proves true: Drill Bit, v. 26, no. 7, p. 34

Dubois, Dean

see Reid, Bateman, and others, 1977

DuChene, Harvey R.

1977 (Kues, B. S., and Woodward, L. A.) Osha Canyon Formation (Pennsylvanian), new Morrowan unit in north-central New Mexico: Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 9, p. 1513–1522, 1 table, 6 figs.

see Woodward, DuChene, and Martinez, 1977

Duffield, R. B.

1978 (and Tester, J. W.) Reservoir engineering [hot dry rock]: Los Alamos Sci. Lab., Rept. 7109, p. 79-82

see Brown, M. C., and others, 1979; and Cremer and others, 1980

Duffy, Christopher J.

1977 Investigation of recharge and groundwater conditions in the western region of the Roswell Basin: M.S. thesis, New Mexico Inst. Mining and Tech.

1978 Permiability, porosity, and pore compressibility of Fenton Hill granodiorite (abs.): Am. Geophys, Union (EOS), Trans., v. 59, no. 12, p. 1202

1978 (Gelhar, L. W., and Gross, G. W.) Recharge and ground-water conditions in the western region of the Roswell Basin: New Mexico State Univ., Water Resources Research Inst., Rept. 100, 111 p., 21 tables, 18 figs., 2 appendices; Natl. Tech. Inf. Serv., Rept. PB-290 577, 111 p.; Sel. Water Resources Abs., 1979, v. 12, no. 8, p. 6

see Gross, G. W., Duffy, and Hoy, 1976; and Gross, G. W., Hoy, and others, 1980

Dugan, Thomas A.

1977 The San Juan Basin—episodes and aspirations: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 83-89, 1 table, 6 figs.

1978a (and Fagrelius, Kurt) Amarillo Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 179–180, 3 figs.

1978b (and Fagrelius, Kurt) Cuervo Mesaverde (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 274–275, 2 figs.

1978c (and Fagrelius, Kurt) Gallegos Farmington, south (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 310-311, 2 figs.

1978d (and Fagrelius, Kurt) Harper Hill Fruitland and Pictured Cliffs (gas), *in* Oil and gas fields of Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 327–328, 3 figs.

1978e (and Fagrelius, Kurt) Ojo Gallup (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 439-440, 3 figs.

1978f (and Fagrelius, Kurt) Shiprock Dakota, north (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 488-489, 3 figs.

1978g (and Fagrelius, Kurt) Shiprock Gallup, north

(gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 490-491, 3 figs.

see Kendrick and Dugan, 1978

Dungan, Michael A.

1978 (Lipman, P. W., and Pronold, T. G.) A geochemical reconnaissance of the Taos Plateau volcanic field, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 30-31

Dunn, Steven S.

1978a Devils Fork Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 276-278, 4 figs.

1978b Devils Fork Mesaverde (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 279–281, 4 figs.

1978c Duffers Point Gallup-Dakota (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 282-284, 3 figs.

1978d Gallegos Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 317-319, 4 figs.

1978e Pajarito Pennsylvanian (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 449-450, 3 figs.

Dunning, P. Charles

1978 Provenance and paleotectonic setting of Virgilian channel deposits, Holder Formation, Sacramento Mountains, Alamogordo, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 5, p. 215

Durden, Christopher J.

1979 Carboniferous and Permian entomology of western North America (abs.): 9th Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 57 Dutro, J. T., Jr.

1979 (Gordon, Mackenzie, Jr., and Huddle, J. W.) Paleontological zonation of the Mississippian System, *in* Paleotectonic investigations of the Mississippian System in the United States—pt. 2, interpretive summary and special features of the Mississippian System, L. C. Craig and C. W. Connor, compilers: U.S. Geol. Survey, Prof. Paper 1010-S, p. 407-429, 6 figs.

Dutton, Shirley P.

see Handford and others, 1980

Eadie, Gregory G.

1977 (and Kaufman, R. F.) Radiological evaluation of the effects of uranium mining and milling operations on selected ground water supplies in the Grants mineral belt, New Mexico: Health Physics, v. 32, no. 4, p. 231-241; Pollution Abs., v. 8, no. 6, p. 904

see Kaufman, R. F., and others, 1976, 1977

Earnest, D. F.

see Beck, R. G., and others, 1980

Earth Environmental Consultants, Inc.

1976a Geohydrologic conditions in the area of Bachelor Draw Subdivision and Lynch Place Subdivision (Santa Fe County): Earth Environ. Consult., Inc., consult. rept. to Fred C. Hill, Edgewood, 13 p.

1976b Hydrogeology of Lamay Ranch Estates, Lin-

coln County, New Mexico: Earth Environ. Consult., Inc., consult. rept., 19 p.

1976c Preliminary study of geohydrologic conditions and dewatering requirements at proposed uranium mine near Crownpoint, New Mexico: Earth Environ. Consult., Inc., consult. rept. to Tennessee Valley Authority, 63 p.

1977a Baseline resource studies in a selected area of southeastern Sandoval County, New Mexico—geohydrological conditions: Earth Environ. Consult., Inc., consult. rept. to Union Carbide Corp., 17 p.

1977b Aquifer testing and subsequent dewatering recommendations (southeast Sandoval County): Earth Environ. Consult., Inc., consult. rept. to Union Carbide Corp., 26 p.

Earth Satellite Corporation

1979 Geometric pattern recognition techniques applied to Landsat digital data for uranium exploration: U.S. Dept. Energy, Rept. GJBX-26-80

Eaton, Gordon P.

1979a A plate-tectonic model for late Cenozoic crustal spreading in the western United States, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 7-32, 1 table, 7 figs.; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 31-32

1979b Regional geophysics, Cenozoic tectonics, and geologic resources of the Basin and Range province and adjoining regions, *in* Basin and Range symposium and Great Basin field conference, G. W. Newman and H. J. Goode, editors: Rocky Mtn. Assoc. Geologists, Guidebook 1979 conf., p. 11–39, 15 figs.

1977 (Peterson, D. L., and Webring, M. W.) Bouguer gravity map of the Mogollon-Santa Rita-Tyrone region, southwestern New Mexico: U.S. Geol. Survey, Open-file Rept. 77-650

1976 (Peterson, D. L., Webring, M. W., and Ratte, J. C.) Gravity mapping as an aid to reconnaissance exploration for mineral and geothermal energy resources in the Mogollon-Santa Rita-Tyrone region, southwestern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 584

see Ratte, Gaskill, and others, 1979

Ebert, James I.

1979 (and Gutierrez, A. A.) Remote sensing of geomorphological factors affecting the visibility of archaeological materials: 47th ann. mtg., Am. Soc. Photogrammetry, proc., p. 226-236

see Lyons and others, 1976

Ecology Consultants, Inc.

1977 Ground-water resources and ground water quality, *in* Final report on climatological and hydrological conditions in east side Socorro study area: Ecology Consult., Inc., consult. rept. to U.S. Bureau Land Management, p. 50-84, 99-117

Eddy, A. C.

see Crowe and others, 1978; Laughlin and Eddy, 1976; Laughlin, West, and others, 1977; and Simmons and Eddy, 1976

Edmison, M. T.

see Babcock, R. E., and others, 1978

Edwards, C. L.

1978 (Reiter, M. A., Shearer, C., and Young, W.)

Terrestrial heat flow and crustal radioactivity in northeastern New Mexico and southern Colorado: Geol. Soc. America, Bull., v. 89, no. 9, p. 1341-1350, 2 tables, 5 figs.

see Reiter, Edwards, Mansure, and Shearer, 1978; Reiter, Edwards, Shearer, Fisher, and others, 1976; Reiter, Edwards, Shearer, McGrath, and Mansure, 1976; Reiter, Shearer, and Edwards, 1978; and Reiter, Weidman, and others, 1976

Edwards, Duncan L.

1978 Petrology and structure of Precambrian rocks in the Bosque Peak quadrangle, north Manzano Mountains, central New Mexico: M.S. thesis, Univ. New Mexico, 105 p.

see Woodward, Parchman, and others, 1979

Ehni, W. J.

see Smith, J. L., and others, 1980

Ehrenberg, Stephen N.

1977 The Washington Pass volcanic center, Chuska Mountains, New Mexico: Geol. Soc. America, Abs., v. 9, no. 7, p. 964-965

1978 Petrology of potassic volcanic rocks and ultramafic xenoliths from the Navajo volcanic field, New Mexico and Arizona: Ph.D. thesis, Univ. California (Los Angeles), 276 p.; Dissert. Abs. Internat., 1979, v. 39, no. 7, p. 3199-B-3200-B

1979 Garnetiferous ultramafic inclusions in minette from the Navajo volcanic field, *in* The mantle sample—inclusions in kimberlites and other volcanics, F. R. Boyd, editor: Am. Geophys. Union, 2nd Internat. Kimberlite Conf., Proc., v. 2, p. 330-344

1979 (and Griffin, W. L.) Garnet granulite and associated xenoliths in minette and serpentinite diatremes of the Colorado Plateau: Geology, v. 7, no. 10, p. 483-487, 2 tables, 4 figs.

1977 (and Perkins, P. C.) Electron microprobe analyses of minerals in Precambrian rocks at the Los Alamos Scientific Laboratory geothermal test site, Jemez Mountains, New Mexico: Los Alamos Sci. Lab., Rept. LA-6695-MS, 15 p.

Eichelberger, J. C.

1979 (and Koch, F. G.) Lithic fragments in the Bandelier Tuff, Jemez Mountains, New Mexico: Jour. Volcanology and Geothermal Research, v. 5, no. 1-2, p. 115-134

see Ander, Heiken, and others, 1979; and Crowe and others, 1978

Eicher, Don L.

see Pillmore and Eicher, 1976

Eister, Margaret F.

see McIntosh and Eister, 1979

Elam, Jack G.

1980 Plate tectonics of the Permian Basin (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program., p. 26

El-Ashry, M. T.

1980 Ground-water salinity problems related to irrigation in the Colorado River basin: Ground Water, v. 18, no. 1, p. 37-45

El-Hindi, M.A.

1977 Geology and mineralization of the southern part of Pinos Altos area, Fort Bayard quadrangle, Elias, J. Morrow

1977 Exploration review—1976: Mining Congr. Jour., v. 63, no. 2, p. 87-89

Grant County, New Mexico: M.S. thesis, Colorado School Mines

Ellet, W. N.

1978 Underground ore-haulage methods in New Mexico potash milling (abs.), in Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 87

Elliot, C. L.

1976 A preliminary geophysical study of a trachyte dike in close proximity to the proposed Los Medanos nuclear waste disposal site, Eddy and Lea Counties, New Mexico: Sandia Lab., open-file rept., 19 p.

see Hern and Elliot, 1978

Elsberry, K.

see Albright and others, 1978

Elston, Wolfgang E.

1976a Mid-Tertiary volcanism and plutonism, southwestern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 585

1976b Glossary of stratigraphic terms of the Mogollon-Datil volcanic province, New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 131-144

1976c Tectonic significance of mid-Tertiary volcanism in the Basin and Range province—a critical review with special reference to New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 93–102, 7 figs.

1977 Rifting and volcanism in the New Mexico segment of the Basin and Range province, southwestern U.S.A., in Petrology and geochemistry of continental rifts, E. R. Neumann and I. B. Ramberg, editors: NATO Advanced Study Inst. Ser., Ser. C, Mathematical and Physical Sci., v. 36, p. 79–86

1978a Triple road junction on Sacaton Mesa to margin of Bursum cauldron in Little Dry Creek Canyon and return to U.S. 180, *in* Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 87-88

1978b Mid-Tertiary cauldrons and their relationship to mineral resources southwestern New Mexico—a brief review, in Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 107-113, 1 table, 5 figs.

1978c Economic significance of Oligocene-Miocene ignimbrite cauldrons of southwestern New Mexico and adjacent regions of Mexico (abs.): Simp. Geol. Potencial Minero Estado Sonora, Resumenes,

no. 1, p. 57-58

1978 (and Bornhorst, T. J.) The Rio Grande rift in context with post-40 m.y. volcanic and tectonic events of southwestern North America, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 35-36

1979 (and Bornhorst, T. J.) The Rio Grande rift in context of regional post-40 m.y. volcanic and tectonic events, *in* Rio Grande rift—tectonics and magma-

tism, R. E. Riecker, editor: Am. Geophys. Union, p. 416-438, 11 figs.

1977 (and Erb, E. E.) Cenozoic volcano-tectonic setting, *in* Geology, petroleum source rocks, and thermal metamorphism in KCM No. 1 Forest Federal well, Hidalgo County, New Mexico, S. Thompson, III, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 152, p. 53–62, 1 table, 5 figs.

1980 (and Erb, E. E.) Tertiary volcanic centers as constraints on oil and gas potential of the Basin and Range province—the New Mexico segment of the Pedregosa Basin (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 38

1979 (Erb, E. E., and Deal, E. G.) Tertiary geology of Hidalgo County, New Mexico: New Mexico Geology, v. 1, no. 1, p. 1, 3-6, 5 figs.

1976 (and Northrop, S. A., editors) Cenozoic volcanism in southwestern New Mexico: New Mexico Geol. Soc., Spec. Pub. 5, 151 p.

1976 (Rhodes, R. C., Coney, P. J., and Deal, E. G.) Progress report on the Mogollon Plateau volcanic field, southwestern New Mexico, no. 3—surface expression of a pluton, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 3–28, 2 tables, 18 figs.

1976 (Rhodes, R. C., and Erb, E. E.) Control of mineralization by mid-Tertiary volcanic centers, southwestern New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 125-130, 5 figs.

see Bornhorst and Elston, 1978; Bornhorst, Elston, and Della Valle, 1980; Brookins, Crumpler, and Elston, 1977; Brookins, Eppler, and Elston, 1977; Chapin and Elston, 1978; Coney and Elston, 1978a,b; Deal, Elston, and others, 1978; Erb and Elston, 1977; and Seager, Clemons, and Elston, 1978

Engineering and Mining Journal

1976 New Mexico's uranium industry threatened by proposed major increases in taxation: Eng. and Mining Jour., v. 178, no. 1, p. 27, 31

England, Tony

see Reiter, Simmons, and others, 1976

Engwall, Carl

1977a Spencer field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 186–187, 1 table, 1 fig.

1977b Washington Ranch Morrow (gas) field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 214–215, 1 table, 1 fig.

Environmental Protection Agency

1977 Water quality impacts of uranium mining and milling activities in the Grants mineral belt, New Mexico (abs.): Sel. Water Resources Abs., v. 10, no. 5, p. 76

Environmental Science and Technology

1977 Cleanup of Morgan Lake in the Four Corners, New Mexico, area is under way: Environ. Sci. and Tech., v. 11, no. 9, p. 844

Enz, Robert D.

1979 (Kudo, A. M., and Brookins, D. G.) Igneous

origin of the obicular rocks of the Sandia Mountains, New Mexico: Geol. Soc. America, Bull., v. 90, pt. I, p. 138-140, 1 fig., v. 90, pt. II, p. 349-380

Eppler, Dean B.

1976 The geology of the San Antonio Mountain area, Tres Piedras, Taos and Rio Arriba Counties, New Mexico: M.S. thesis, Univ. New Mexico, 77 p. see Brookins, Eppler, and Elston, 1977

Epstein, Samuel

see Lambert, S. J., and Epstein, 1980

Erb. Edward E.

1978 Evolution of mid-Tertiary ash-flow tuff cauldrons in the Animas, southern Peloncillo, and Guadalupe Mountains, Hidalgo County, New Mexico (abs.): Geol. Soc. America, Bull., v. 90, no. 2, pt. I. p. 138-140

1979 Petrologic and structural evolution of ashflow tuff cauldrons and noncauldron-related volcanic rocks in the Animas and scuthern Peloncillo Mountains, Hidalgo County, New Mexico: Ph.D. thesis, Univ. New Mexico, 286 p.

1977 (and Elston, W. E.) Volcano-tectonic setting of the KCM No. 1 Forest Federal well, Winkler anticline, Hidalgo County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 17 see Deal, Elston, and others, 1978; Elston and Erb, 1977, 1980; Elston, Erb, and Deal, 1979; and Elston Rhodes, and Erb, 1976

Ericksen, George E.

1976 (and Wedow, H., Jr.) Tertiary extrusive sheets and related intrusions in the Black Range, New Mexico, in Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 63-67, 1 table, 4 figs.

Erickson, M. S.

see Moench and Erickson, 1980

Erpenbeck, M. F.

1979 (and Flores, R. M.) Stratigraphy and depositional environments of the Upper Cretaceous Pictured Cliffs Sandstone and Fruitland Formation in the southwestern San Juan Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 6, p. 271

Esteban, Mateo

1977 Vadose pisolite and caliche: Am. Assoc. Petroleum Geologists, Bull., v. 60, no. 11-1, p. 2048-

2057, 1 table, 4 figs.

1976 (and Pray, L. C.) Nonvadose origin of pisolitic facies, Capitan reef complex (Permian), Guadalupe Mountains, New Mexico and west Texas (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 60, no. 4, p. 670

1977a (and Pray, L. C.) Locality guide, stop I, introduction to strata of the shelf crest, inner Walnut Canyon and Carlsbad Caverns area, upper Yates and lower Tansill Formations: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 2, p. G87-G90

1977b (and Pray, L. C.) Locality guide, stop II, Hairpin curve, Hairpin dolomite, upper Yates Formation: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 2, p. G91-G118

1977c (and Pray, L. C.) Locality guide, stop III,

Caverns highway road cuts, upper Yates and basal Tansill Formations: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16. Guidebook 1977 field conf., v. 2, p. G119-G124

1977d (and Pray, L. C.) Locality guide, stop IV. lower Tansill Formation, Caverns highway roadcuts: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 2, p. G125-G131

1977e (and Pray, L. C.) Locality guide, stop V, west parking lot, Caverns visitor center, shelf crest, upper Tansill Formation: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 2, p. G132-G142 see Pray and Esteban, 1977

Ethridge, Frank G.

1980 (Ortiz, N. V., Granger, H. C., Ferentchak, J. A., and Sunada, D. K.) Effects of ground-water flow on the origin of Colorado Plateau-type uranium deposits, in Geology and mineral technology of the Grants uranium region, 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 98-106, 2 tables, 18 figs.

1980 (Ortiz, N. V., Sunada, D. K., and Tyler, Noel) Laboratory, field, and computer flow study of the origin of Colorado Plateau-type uranium deposits: U.S. Geol. Survey, Open-file Rept. 80-805, 90 p.

see Ortiz, Ethridge, and Sunada, 1980

Evans, Robert

see Kirkland and Evans, 1980

Evans, W. C.

see Mariner and others, 1977

Eveleth, Robert W.

1979a New methods of working an old mine—case history of the Eberle Group, Mogollon, NM: New Mexico Geology, v. 1, no. 1, p. 7-11, 2 tables, 7 figs.

1979b The 1872 mining law—is it really obsolete?: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1977-78, p. 23-29

1980 (and Kottlowski, F. E.) Mineral production activities in New Mexico during 1978: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1978-79, p. 50-54, 1 table, 1 fig.

1980 (and North, R. M.) Reconnaissance report, Brush Heap mine, Kingston mining district, Sierra County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 165, 24 p., 2 tables, 3 figs., 1 appendix

1978 (and Sheffer, H. W.) Minerals in the economy of New Mexico: U.S. Bureau Mines, State Mineral Profile 5, 18 p.

1980 (and Siemers, W. T.) Preliminary report on the Little Granite mine, Black Range mining district, Sierra County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 116, 13 p. see Sheffer and Eveleth, 1979

Eveletti, Robert W.

see Sheffer and Eveletti, 1978; see also Eveleth, Robert W.

Everett, John R.

1978 (Reid, W. M., and Porter, J. R.) Successful application of Landsat data to geologic exploration (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 398

Everitt, B. L.

see Van Devender and Everitt, 1977

Everson, Joel E.

1978 (and Silver, L. T.) Lead systematics of late Cenozoic basalts from the Rio Grande rift, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 36-37

Ewing, Rodney C.

1979 The Harding pegmatite—summary of recent research (abs.): Univ. New Mexico, New Mexico Minerals Symp., p. 2

1976 (and Kues, B. S., editors) Guidebook of Vermejo Park, northeastern New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo

Park, 303 p.

1977 (and Thompson, Sam, III) Thermal metamorphism of organic matter, *in* Geology, petroleum source rocks, and thermal metamorphism in KCM No. 1 Forest Federal well, Hidalgo County, New Mexico, S. Thompson, III, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 152, p. 49–51 *see* Brookins, Chakoumakos, and others, 1979; *and* Jahns and Ewing, 1976, 1977

Ewing, Thomas E.

1979 Lead isotope data from mineral deposits of southern New Mexico—a reinterpretation: Econ. Geology. v. 74, no. 3, p. 678–684, 2 tables, 3 figs.

Eyde, Ted H.

1977 Annual review of mining and engineering, New Mexico—1976: Mining Engineering, v. 29, no. 2, p. 51-53

Fagrelius, Kurt

1978a Cone Paradox (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 268–269, 3 figs.

1978b Meadows Gallup (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 408-409, 3 figs.

1978c WAW Fruitland-Pictured Cliffs (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 558-560, 5 figs.

1978 (and Jacobs, J. L.) Ojo Fruitland-Pictured Cliffs (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 437-438, 3 figs.

see Dugan and Fagrelius, 1978a-g; Jacobs, J. L., and Fagrelius, 1978a-b

Fahnestock, R. K.

see Harms and Fahnestock, 1977

Faith Enterprises, Inc.

1977 Description of field investigations and hydrology of the Mora River valley near Shoemaker, New Mexico: Faith Enterprises, Inc., consult. rept. to Ted True Ranch, Inc., 19 p.

Falkowski, Stephen K.

1980a Geology and ore deposits of Johnny M mine, Ambrosia Lake district, in Geology and mineral technology of Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 230–239, 5 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 10; Am.

Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 687-688

1980b The geology and ore deposits of the Johnny M mine, Ambrosia Lake district, Grants, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 154 p.

Faris, Kathleen Babette

1980 A geochemical model for the magmatic history of the Carrizozo basalt field, south-central New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 168 p.

1980 (and Renault, J. R.) A geochemical model for the magmatic history of the Carrizozo basalt field, south-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 273

Farmer, B. M.

see Styron and others, 1979

Fassett, James E.

1976 What happened during Late Cretaceous time in the Raton and San Juan Basins—with some thoughts about the area in between: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 185-190, 3 figs.

1977a (editor) Guidebook of San Juan Basin III, northwestern New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, 307

p.

1977b Geology of the Point Lookout, Cliff House and Pictured Cliffs Sandstones of the San Juan Basin, New Mexico and Colorado: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 193–197, 1 table, 1 fig.

1977c Stratigraphy of the coals of the San Juan Basin, *in* Geology of Rocky Mountain coal, proceedings, D. K. Murray, editor: Colorado Geol. Survey,

Resource Ser. 1, p. 61-71

1979 Comment on "Biostratigraphy and magnetostratigraphy of Paleocene terrestrial deposits, San Juan Basin, New Mexico": Geology, v. 7, p. 69-70

1977 (Black, B. A., Jentgen, R. W., and Osterhoudt, W. J.) Third day—road log from El Vado Lake to Farmington via Dulce, Lumberton and Chromo, Ignacio, Colorado, Navajo Dam and Aztec: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 39-55

1977 (and Hinds, J. S.) Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 207; U.S. Geol. Survey, Prof. Paper 676, 76 p.

1978a (and Jentgen, R. W.) Blanco Tocito, south (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol.

Soc., p. 233-240, 1 table, 4 figs.

1978b (and Jentgen, R. W.) Largo Gallup (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 376–380, 6 figs.

1978c (and Jentgen, R. W.) Tapacito Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 510-515, 5 figs.

1977 (Jentgen, R. W., Black, B. A., Molenaar, C. M., and Woodward, L. A.) Second day—road log

from Red Mountain oil field to El Vado Lake via Pueblo Pintado, Star Lake, Torreon, Cuba and Llaves: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 19-38

1977 (Molenaar, C. M., Black, B. A., Jentgen, R. W., and Chenoweth, W. L.) First day—road log from Farmington to Red Mountain oil field via Bisti, Crownpoint, Thoreau, Baca, and Hospah: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 1-18

1978 (and others) Stratigraphy and oil and gas production of northwest New Mexico, *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 46-61, 5 tables, 4 figs.

1978 (Thomaidis, N. D., and Matheny, M. L., editors) Oil and gas fields of the Four Corners area: Four Corners Geol. Soc., 2 v., 725 p.

see Jentgen and Fassett, 1977

Fehler, Michael

1979 Temperature dependence of in-situ P wave velocity in a hot dry rock geothermal reservoir (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 46, p. 946

see Aki and others, 1977

Feirn, W. C.

see Beck, R. G., and others, 1980

Feis, P. Geoffrey

1978 Magmatic sources of copper in porphyry copper deposits: Econ. Geology, v. 73, no. 3, p. 397-404 Feldman. S.

1974 (Inglis, M., Vonder Linden, K., and others) Geologic analysis of ERTS-1 imagery for the State of New Mexico: Natl. Aeronautics and Space Admin., 82 p.

Fellows, M. L.

see McKnight and Fellows, 1978

Felmlee, J. K.

1978 (and Cadigan, R. A.) Radium and uranium data for mineral springs in eight western states: U.S. Geol. Survey, Open-file Rept. 78-561, 48 p., 21 figs.

Fender, John J.

1978 A study of Poisson's ratio in the upper crust in the Socorro, New Mexico, area: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 25, 78 p.

Fenn, Philip

1979 (and Jahns, R. H.) Experimental crystallization of Harding, New Mexico, pegmatite: Geol. Soc. America, Abs. with Program, v. 11, no. 3, p. 77-78

Ferek, R. J.

see Winchester, J. W., and Ferek, 1979

Ferenbaugh, R. W.

see Purtymun, Ferenbaugh, and others, 1980

Ferentchak, James A.

see Ethridge, Ortiz, Granger, and others, 1980

Fieseler, R. G.

1978a (and Kunath, C. E.) McKittrick Cave, in The caves of McKittrick Hill, Eddy County, New Mexico—history and results of field work, 1965–1976, C. E. Kunath, editor: Texas Speleological Soc., p. 32–35

1978b (and Kunath, C. E.) Little Sand Cave, in The caves of McKittrick Hill, Eddy County, New Mexico—history and results of field work, 1965–1976, C. E. Kunath, editor: Texas Speleological Soc., p. 54–55

Finch, Warren I.

1976 (Wright, J. C., and Davis, B. O.) Unevaluated preliminary geologic cross section of uranium-bearing Upper Triassic rocks extending from Ute Reservoir, New Mexico, to Palo Duro Canyon, Texas: U.S. Geol. Survey, Open-file Rept. 76–205

see Ridgley and others, 1978

Finn. Dennis D.

see Mutschler and others, 1978

Finnell, T. L.

1976a Geologic map of the Twin Sisters quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-779, scale 1:24,000

1976b Geologic map of the Reading Mountain quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-800, scale 1:24,000

see Ratte and Finnell, 1978

Fischer, W. A.

1978 (Orr, D. G., and Greenlee, D. D.) An example of the merging of Landsat, topographic, and aeromagnetic data in a geologic and hydrologic study of a karst region, Claunch, New Mexico: Internat. Symp. Remote Sensing Environ., Proc., no. 12, v. 2, p. 805-823

1979 (Orr, D. G., and Greenlee, D. D.) Mineral exploration at Claunch, New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 285

Fisher, Dorothy L.

see Jahns, McMillan, and others, 1978

Fisher, H. N.

see Aamodt, Brown, and others, 1978

Fisher, Jeffrey A.

1977 The use of relative travel time residuals of P phases from teleseismic events to study the crust in the Socorro, New Mexico, area: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 14, 71 p.

see Reiter, Edwards, Shearer, Fisher, and others, 1976

Fisher, R. V.

1979 Models for pyroclastic surges and pyroclastic flows: Jour. Volcanology and Geothermal Research, v. 6, no. 3-4, p. 305-318

Fisher, Russell A.

1979 A biogeochemical study of the Recent calcite deposits along the Lucero uplift, Valencia County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 152 p.

Fisher, W. L.

see Parker, J. M., and others, 1977

Fitch, David C.

1977 Case history of discovery of new uranium deposit, Ambrosia Lake district, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 5, p. 784

1980 Exploration for uranium deposits, Grants mineral belt, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 40–51, 1 table, 20 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 11; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 688

see Woodward, Ingersoll, Fitch, and Hutchinson, 1979a,b; and Woodward, Ingersoll, Fitch, and others, 1979

Fitzsimmons, J. Paul

1980 (and Kelley, V. C.) Red Rock talc deposit, Sierra County, New Mexico: New Mexico Geology, v. 2, no. 3, p. 36–38

Fleischer, Robert L.

1980 Radon flux from the Earth—methods of measurement by the nuclear track technique: Jour. Geophys. Research, v. 85-C, no. 12, p. 7553-7556

1980 (Hart, H. R., Jr., and Mogro-Campero, Antonio) Radon emanation over an orebody—search for long-distance transport of radon, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 380-389, 2 tables, 14 figs.

1979a (and Mogro-Campero, Antonio) Radon emanation over orebody—has long-distance transport of radon been discovered?, *abs. in* Grants uranium region, a symposium: Am. Assoc. Petroleum Geologists, Program, p. 11; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 688

1979b (and Mogro-Campero, Antonio) Integrated radon mapping in the earth—assessment of the ²²⁰Rn signal and its exclusion: Geophysics, v. 44, no. 9, p. 1541–1548

Fleischhauer, Henry L., Jr.

1977a Soil-age relationships of alluvial and lacustrine deposits, lower Animas Valley, southwest New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 18-19

1977b Quaternary geology of Lake Animas, Hidalgo County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 149 p., 5 tables, 31 figs., 4 appendices

1978 Summary of the late Quaternary geology of Lake Animas, Hidalgo County, New Mexico: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 283-284, 1 fig.

Flores, Romeo M.

1979 Pictured Cliffs Sandstone-Upper Cretaceous distributary-channel, delta-front, and beach-bar deposits, southwestern San Juan Basin, New Mexico (abs.): New Mexico Geology, v. 1, no. 4, p. 60

1980 Comparison of depositional models of Tertiary and Upper Cretaceous coal-bearing rocks in some Western Interior basins of the United States: Colorado Geol. Surv., Resource Ser., no. 10, p. 17-20

1979 (and Mytton, J. W.) San Juan Basin, New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 20

see Cavaroc and Flores, 1980; and Erpenbeck and Flores, 1979

Flower, Rousseau H.

1977 Ordovician cephalopods and correlations (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 19

see Hook and Flower, 1976, 1977

Fodor, Ronald V.

1976 Volcanic geology of the northern Black Range, New Mexico, in Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 68-70, 1 table, 1 fig.

1978 Ultramafic and mafic inclusions and megacrysts in Pliocene basalt, Black Range, New Mexico: Geol. Soc. America, Bull., v. 89, no. 3, p. 451-459, 6 tables, 4 figs.

Foley, Donald C.

see Jacka, Barone, and others, 1980

Folk, James K.

1978 Ojito Dakota (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 431-432, 3 figs.

see Matheny, M. L., and Folk, 1978

Folk, Robert L.

1977 Reply—calcite and aragonite fabrics, Carlsbad Caverns: Jour. Sed. Petrology, v. 47, no. 3, p. 1400–1401, 1 fig.

1976 (and Assereto, Riccardo) Comparative fabrics of length-slow and length-fast calcite and calcitized aragonite in a Holocene speleothem, Carlsbad Caverns, New Mexico: Jour. Sed. Petrology, v. 46, no. 3, p. 486-496, 11 figs.

see Loucks, R. G., and Folk, 1976

Foltz, G. A.

1977 (and Siruta, W. A.) Hobbs Blinebry field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 118–119, 1 table, 1 fig.

see Siruta and Foltz, 1977

Foord, G.

see Taggart and Foord, 1979

Foppe, T.

see Thompson, R. S., and others, 1980

Forbes, R. B.

see Brookins, Forbes, and others, 1977; Naeser and Forbes, 1976; and Turner, D. L., and Forbes, 1976

Forn, C. L.

see Watts, Hassemer, Forn, and Siems, 1979

Forrester, John D.

see Kith, Wilt, and others, 1978

Foster, H. P., Jr.

see Killough and Foster, 1978

Foster, John F.

1980 (and Quintanar, R. J.) An anomalous ore-body within the Ambrosia Lake trend at Sandstone mine, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 240–243, 5 tables, 4 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, Program, p. 11–12; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 688 *see* Ander, Laughlin, and others, 1980

Foster, Mat

see Taylor, R. G., and others, 1978

Foster, Roy W.

1976 Geology of Loco Hills sand, Loco Hills field, Eddy County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 67, 177 p., 12 tables, 34 figs.

1978a Selected data for deep drill holes along Rio Grande rift in New Mexico, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W.

Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 236-237

1978b Oil and gas evaluation of the White Sands Missile Range and Fort Bliss Military Reservation, south-central New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 92, 130 p., 10 tables, 22 figs., 2 appendices

1977 (Austin, G. S., Hawley, J. W., and Stone, W. J.) Preliminary selection of sites geologically suitable for the disposal of hazardous wastes in New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 83, 64 p., 29 figs.

1978 (Gutjahr, A. L., and Warner, G. H.) Estimates of New Mexico's future oil production including reserves of the 50 largest pools: New Mexico Bureau Mines Mineral Resources, Circ. 166, 56 p., 8 tables, 58 figs.

see Arnold, Foster, and others, 1976; Arnold, Hill, Donaldson, and Foster, 1977; Arnold, Hill, Donaldson, and others, 1978; and Stone, W. J., and Foster, 1977

Fracasso, Michael A.

1980 Age of the Permo-Carboniferous Cutler Formation vertebrate fauna from El Cobre Canyon, New Mexico: Jour. Paleontology, v. 54, no. 6, p. 1237–1244

Frasier, C. W.

see North, R. G., and Frasier, 1977

Freeman, V. L.

1979 (and Danilchik, W.) Rank and methane content of western coals (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 20

see Wright, J. C., Dickey, and Freeman, 1979

Frenzel, Peter F.

see Lyford and Frenzel, 1979; and Lyford, Frenzel, and Stone, 1979, 1980

Frey, Fred A.

see Reid and Frey, 1978

Frezon, Sherwood E.

see Dolton, Coury, and others, 1980; Dolton, Frezon, and Coury, 1979; and Robinson, K., and others, 1978

Frick, U.

see Phinney and others, 1978

Fried, Sherman

1978 (Hines, J. J., and Friedman, A. M.) The migration of uranium wastes from a geologic repository (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 404

Friedman, Arnold M.

see Fried and others, 1978

Friedman, Irving

see Barker, F., Arth, and others, 1976; Barker, F., Friedman, and others, 1976; and Reimer and others, 1979

Frishman, Mark S.

1979 Use of linear inverse techniques to study Poisson's ratios in the upper crust in the Socorro, New Mexico, area: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 27, 134 p.

Fritschen, L. J.

see Gay and Fritschen, 1979

Friz, T.O.

see Imhoff and others, 1976

Frizzell, Thomas P.

1977 Teague Blinebry field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 192-193, 1 table, 1 fig.

Froehlich, J. W.

see Kues, B. S., Froehlich, and others, 1977

Frost, Stephen J.

1979 Coal industry of New Mexico in 1978: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1977–78, p. 30–33, 2 figs.

1980 Geographic names: New Mexico Geology, v. 2, no. 4, p. 58, regular column describing official geographic names for New Mexico, starting with this issue

1980 (Tabet, D. E., and Campbell, F. W.) Exploratory drilling in the Datil Mountains coal field: New Mexico Bureau Mines Mineral Resources, Openfile Rept. 111, 53 p., 1 table, 7 figs., 4 appendices

see Chapin, Osburn, and others, 1979; Kottlowski, Tabet, and Frost, 1980; Tabet and Frost, 1978, 1979 a,b; and Tabet, Frost, and Kottlowski, 1977, 1979

Frye, John C.

1978 (Leonard, A. B., and Glass, H. D.) Late Cenozoic sediments, molluscan faunas, and clay minerals in northeastern New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 160, 32 p., 5 tables, 18 figs.

see Leonard and Frye, 1978

Fuchs-Parker, John William

1977 Alibi for a Mesaverde misfit—the La Ventana formation Cretaceous delta, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 199-206, 13 figs.

Fuller, G. E.

see Hayslip, Fuller, and others, 1979, 1980

Funderburg, D. E.

1977 Trap-efficiency investigation, Bernalillo Floodwater Retarding Reservoir No. 1 (Piedra Lisa Arroyo) near Bernalillo, New Mexico, water years 1956–1974: U.S. Geol. Survey, Open-file Rept. 77–261, 52 p., 4 tables, 23 figs.

1977 (and Roybal, F. E.) Sediment trap efficiency of Tortugas Arroyo near Las Cruces, New Mexico, water years 1963–1964: U.S. Geol. Survey, Open-file Rept. 77–586, 63 p., 4 tables, 28 figs.

see Dewey and others, 1979

Furgerson, Robert

see Ander, Laughlin, and others, 1980

Gableman, John W.

1977 Migration of uranium and thorium—exploration significance: Am. Assoc. Petroleum Geologists, Studies in Geology no. 3, 168 p.

1978 Test use of ERTS/LANDSAT imagery in uranium exploration (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 515

Gaeddert, Daniel H.

see Schery and others, 1980

Gage, J. E.

1977a (and Asquith, G. B.) Sedimentology of Mesa Rica Sandstone in Tucumcari Basin, New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 157, 14 p., 4 tables, 21 figs.

1977b (and Asquith, G. B.) Sedimentology of Cretaceous Mesa Rica Sandstone, Tucumcari Basin,

New Mexico (abs.): Am. Assoc. Petroleum Geologists, v. 7, no. 6, p. 758

Gagnon, L. D.

see Cape and others, 1980

Gallagher, G. L.

1973 The petrography of ultramafic inclusions from Bandera Crater, New Mexico: M.S. thesis, Kent State Univ.

Galloway, Sherman E.

1977 (and Nelson, D. W.) Memorandum report on investigation of extent and status of rights to use of water originating at group of springs located in part in Lot 16 in Section 1, T. 16 S., R. 12 E., N.M.P.M. and in part in Lot 12 in Section 6, T. 16 S., R. 13 E., N.M.P.M., near Cloudcroft, in north-central Otero County, New Mexico: New Mexico State Engineer, open-file rept., 11 p.

Galloway, William E.

1978 Morrison Formation, Colorado Plateau, in Depositional and ground-water flow systems in the exploration for uranium—a research colloquium: Univ. Texas (Austin), Bureau Econ. Geology, p. X1-X6

1979 Morrison Formation of the Colorado Plateau, in Depositional and ground-water flow systems in the exploration for uranium, W. E. Galloway, editor: Univ. Texas (Austin), Bureau Econ. Geology, p. 214-228

1980 Deposition and early hydrologic evolution of Westwater Canyon wet alluvial-fan system, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 59-69, 1 table, 11 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 12; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 683

see Belcher and Galloway, 1977

City of Gallup

1977 Research study on use of uranium mine water as a municipal supply for the City of Gallup, New Mexico: City of Gallup, rept., 100 p.

Gallus, J. P.

see Messer and others, 1978

Galusha, Ted

see Hawley and Galusha, 1978

Gambill, David T.

1980 Tertiary alkalic intrusions of east-central Lucero uplift, central New Mexico: M.S. thesis, Stanford Univ.

see Levitte and Gambill, 1980

Gancarz, A. J.

1978 *7Sr/**Sr in water from the Los Alamos hot dry rock geothermal system (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1225 see Balagna, Beddoe, and others, 1978

Garcia, Alvin

see Jaksha, Locke, and others, 1977, 1978

Garcia, G.

see Aldon and Garcia, 1977

Garland, T. M.

see Attansi and others, 1979

Garrand, Leonard

1978 Potash: Mining Engineering, v. 30, no. 5, p. 538

Garvin, R. F.

1978 Slick Rock Dakota (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 497-499, 4 figs.

Garza, Sergio

see McLean and Garza, 1977

Gaskill, David L.

see Ratte and Gaskill, 1975; and Ratte, Gaskill, and others, 1979

Gates, Joseph S.

see Zohdy and others, 1976

Gatewood, Lloyd E.

1978 Stratigraphic trap possibilities in Arbuckle Group (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 516

Gawne, Constance E.

1976 Lagomorphs from the Zia Sand Miocene of New Mexico: Am. Museum Novitates 2608, 15 p.

Gay, L. W.

1979 ET measurements on the Pecos River floodplain (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 46, p. 828

1979 (and Fritschen, L. J.) An energy budget analysis of water use by saltcedar: Water Resources Research, v. 15, no. 6, p. 1589-1592

Gebula, G. T.

see Izett and others, 1978

Geeslin, Jill H.

1980 Petrography of the Aleman Formation, Upper Ordovician, Silver City Range, southwestern New Mexico: M.S. thesis, Univ. Houston

Gelhar, Lynn W.

see Duffy and others, 1978; and MacMillan and others, 1976

Gentry, D. W.

1978 (and Abel, J. F., Jr.) Surface response to longwall coal mining in mountainous terrain: Assoc. Eng. Geologists, Bull., v. 15, no. 2, p. 191-220

Geodata International

1976a Aerial radiometric and magnetic survey of the Tucumcari national topographic map, NI 13-3, Texas and New Mexico: U.S. Dept. Energy, Rept. GJBX-33-76

1976b Aerial radiometric and magnetic survey of the Clovis national topographic map, NI 13-6, Texas and New Mexico: U.S. Dept. Energy, Rept. GJBX-33-76

1976c Aerial radiometric and magnetic survey of the Brownfield national topographic map, NI 13-9, Texas and New Mexico: U.S. Dept. Energy, Rept. GJBX-33-76

1978 Aerial radiometric and magnetic survey— Tularosa national topographic map, New Mexico: U.S. Dept. Energy, Rept. GJBX-67-79, 56 p.

1980a Aerial radiometric and magnetic survey, Aztec national topographic map, New Mexico, Rocky Mountains, 1979: U.S. Dept. Energy, Rept. GJBX-65-80, 2 sheets, scale 1:500,000

1980b Aerial radiometric and magnetic survey, Hobbs national topographic map, Texas, New Mexico—final report: U.S. Dept. Energy, Rept. GJBX-228-80, 2 sheets, scale 1:500,000

see High Life Helicopters and Geodata International, 1979

Geohydrology Associates, Inc.

1978 Collection of hydrologic data Eastside Roswell Range EIS area, New Mexico: Geohydrology Assoc., Inc., rept. to Bureau Land Management; New Mexico Bureau Mines Mineral Resources, Openfile Rept. 95, 223 p., 6 tables, 24 figs., appendix

Geometrics

1979a Aerial gamma ray and magnetic survey Raton Basin project, Shiprock and Gallup quadrangles, Arizona/New Mexico, and Albuquerque quadrangle, New Mexico—final report: U.S. Dept. Energy, Rept. GJBX-116-79, 59 p.

1979b Aerial gamma ray and magnetic survey Raton Basin project, Raton and Santa Fe quadrangles, New Mexico—final report: U.S. Dept. Energy, Rept. GJBX-9-80

Geonomics

1978a Geothermal environmental impact assessment—baseline data for four geothermal areas in the United States: Natl. Tech. Inf. Serv., Rept. EPA-600/7-78-188, 339 p.

1978b Geothermal environmental impact assessment, subsurface environmental assessment for four geothermal systems: Natl. Tech. Inf. Serv., Rept. EPA-600/7-78-207, 240 p.

Geotimes

1980 Stress releases radon: Geotimes, v. 25, no. 3, p. 25-26

Gerety, Michael T.

1980 Bipole-dipole electrical technique applied to geothermal exploration in New Mexico: M.S. thesis, Univ. New Mexico

see Jiracek, Smith, and Gerety, 1976

Gertsch, W. D.

1977 (Sathaye, J., Ritschard, R., and others) Water requirements for future energy development in the West—state perspectives: Los Alamos Sci. Lab., Rept. 6688, 51 p.

Gibson, Gail G.

1975 Phanerozoic geology of the Gallina quadrangle, Rio Arriba County, north-central New Mexico: Ph.D. thesis, Univ. New Mexico, 226 p.; Dissert. Abs. Internat., 1976, v. 37, no. 4, p. 1593-B-1594-B see Woodward, Gibson, and McLelland, 1976

Gibson, Wayne R.

1979 (and Stichtenoth, C. W.) Developments in west Texas and eastern New Mexico in 1978: Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 8, p. 1236-1243, 4 tables, 5 figs.

see Diemer and others, 1980

Gilbert, J. L.

1976 (and Asquith, G. B.) Sedimentology of braided alluvial interval of Dakota Sandstone, northeastern New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 150, 16 p., 4 tables, 20 figs.

see Asquith and Gilbert, 1976; and Asquith, Gilbert, and Smith, 1976

Gile, Leland H.

1977 Holocene soils and soil-geomorphic relations in a semi-arid region of southern New Mexico: Quaternary Research, v. 7, no. 1, p. 112-132, 5 tables, 13 figs.

Giles, David L.

1976 Precambrian mineralization in the southern Rocky Mountain region, *in* Tectonics and mineral re-

sources of North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 127-131, 2 figs.

see Thompson, T. B., and others, 1980

Gill, Douglas

1976 New Mexico legislature might restrict infill drilling on certain acreage: Western Oil Reporter, October, p. 27

Gillette, D. A.

see Sridhar and others, 1978

Gingerich, P. D.

1979 (and Gunnell, G. F.) Systematics and evolution of the genus *Esthonyx* (Mammalia, Tillodontia) in the early Eocene of North America: Univ. Michigan, Mus. Paleontology, Contrib., v. 25, no. 7, p. 125-153

Gish, Dan M.

see Keller, G. R., Sinno, and others, 1979

Gladney, Ernest S.

see Baldridge, Perry, and Gladney, 1980; Dressen and others, 1978; and Hakonson, White, and others, 1980

Glanzman, V. M.

1980 Bibliography of reports by U.S. Geological Survey personnel pertaining to underground nuclear testing and radioactive waste disposal at the Nevada Test Site, and radioactive waste disposal at the WIPP site, New Mexico, January 1, 1979, to December 31, 1979: U.S. Geol. Survey, Open-file Rept. 80-817, 23 p.

Glass, H. D.

see Frye and others, 1978

Gleason, J. D.

see Barker, F., Friedman, and others, 1976

Glikson, A. Y.

1979 Early Precambrian tonalite-trondhjemite sialic nuclei: Earth-Science Reviews, v. 15, no. 1, p. 1-73, 8 tables, 25 figs.

Gloss, Steven P.

1978 (Mayer, Lawrence, and Kidd, D. E.) Effects of suspended sediment in regulating nutrient delivery to southwestern reservoirs (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 17

Goff, Fraser E.

1980 The Valles caldera geothermal system, New Mexico, U.S.A. (abs.): 26th Internat. Geol. Congr., Abs., v. 3, p. 1113

1980 (and Kron, A.) In-progress geologic map of Cañon de San Diego, Jemez Springs, New Mexico, and lithologic log of Jemez Springs geothermal well: U.S. Govt. Printing Office, scale 1:12,000

1980 (and Sayer, S.) A geothermal investigation of spring and well waters of the Los Alamos region, New Mexico: Los Alamos Natl. Lab., Rept. 8326-MS, 21

Golder Associates

1980 Report to the United States Department of the Interior, Geological Survey, on recommendations for abandonment of the Wills-Weaver mine and mine shafts, Carlsbad, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-214, 446 p.

Goldhaber, Martin B.

see Reynolds, R. L., and Goldhaber, 1978a, b

Gollehon, Noel R.

see Lansford, Chaturvedi, and others, 1980

Golombek, Matthew P.

1980 Geometry and rate of extension across the Pajarito fault zone, Española Basin, Rio Grande rift, northern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 434

Gonzales, J. L.

1979a (and Jones, C. L.) Geologic data for borehole WIPP 13, *in* Basic data report for drillhole WIPP 13: Sandia Lab., Rept. SAND79-0273, p. 4-15, 3 tables, 2 figs.

1979b (and Jones, C. L.) Geological data, *in* Basic data report for drillhole WIPP 25: Sandia Lab., Rept. SAND79-0279, p. 4-25, 3 tables, 2 figs.

see Wilson, C. A., White, and others, 1978

Gonzales, Serge

1980 (and Johnson, K. S.) The regional potential of argillaceous strata in the United States for radio-active-waste disposal (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 434

see Johnson, K. S., and others, 1978

Gonzalez, Don D.

see Barr and Gonzalez, 1980

Goode, Harry D.

see Newman and Goode, 1979

Goodknight, Craig S.

1976 Cenozoic structural geology of the central Cimarron Range, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 137-140, 2 figs.

Gordon, Mackenzie, Jr.

see Dutro and others, 1979

Gorham, Frank D., Jr.

1977 (Woodward, L. A., Callender, J. F., and Greer, A. R.) Fracture permeability in Cretaceous rocks of the San Juan Basin: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 235-241, 4 figs.

1979 (Woodward, L. A., Callender, J. F., and Greer, A. R.) Fractures in Cretaceous rocks from selected areas of San Juan Basin, New Mexico— exploration implications: Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 598-607, 5 figs.

Gorham, Timothy W.

1979 Geology of the Galisteo Formation, Hagan Basin, New Mexico: M.S. thesis, Univ. New Mexico, 136 p.

1979 (and Ingersoll, R. V.) Evolution of the Eocene Galisteo Basin, north-central New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 219–224, 7 figs.

Gorshkov, S. P.

see Kondrat'yeva and Gorshkov, 1979

Goss, Ron

see Ander, Goss, and others, 1980

Gosz, James R.

1978 (Barton, Larry, and Potter, L. D.) An evaluation of New Mexico humate deposits for restoration of mine spoils, *in* The reclamation of disturbed arid lands, R. A. Wright, editor: Univ. New Mexico Press, chap. 10, p. 180–188, 2 tables

see Moore, D. I., and others, 1978; and White, C. S., and others, 1978

Gottschal, W. C.

see Szabo and Gottschal, 1980

Gould, Walter L.

1978 Approach to reclamation of surface mined land in the Fruitland Formation in New Mexico, in Ecology and coal resource development—based on the international congress for energy and the ecosystem, M. K. Wali, editor: New York, Pergamon Press, p. 850-858

1977 (Miyamoto, S., and Rai, Dhanpat) Reclamation potential of overburden materials in the Fruitland Formation in the San Juan Basin: New Mexico State Univ., Agric. Exp. Station, Bull. 657, 39 p., 14 tables, 9 figs., 1 appendix

see Miyamoto and others, 1977

Graham, R. G.

see Keller, G. R., Graham, and Roy, 1978

Grambling, Jeffrey A.

1978 Aluminum silicate phase relations in the Truchas Peak region, northern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 411

1979a Precambrian geology of the Truchas Peaks region, north-central New Mexico, and some regional implications: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 135-143, 9 figs.

1979b Geology of Precambrian metamorphic rocks of the Truchas Peaks area, north-central New Mexico: Ph.D. thesis, Princeton Univ., 269 p.; Dissert. Abs. Internat., 1980, v. 40, no. 7, p. 3057-B

1979c Isothermal prograde metamorphism and fluid diffusion, Truchas Peaks region, northern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 435

Gran, Philip R., Jr.

1978 Geothermal energy resources of northwest New Mexico, *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 9-16, 2 figs.

Granata, G. E.

see McGowan and others, 1977

Granger, Harry C.

1980 (and others) Genetic-geologic model for tabular humate uranium deposits, Grants mineral belt, San Juan Basin, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-2018, 53 p.

see Ethridge, Ortiz, Granger, and others, 1980; and Ludwig and others, 1977

Grant, Keith

see Owen, Walters, Kostura, and Grant, 1976 Graustein, William C.

1976 Organic complexes and the mobility of iron and aluminum in soil profiles (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 891

1978 (and Armstrong, R. L.) Measurement of dust input to a forested watershed using *7Sr/**Sr ratios (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 411

see Nozaki, DeMaster, Benninger, and others, 1977 Gray, Gordon H.

1978 Parlay Mesaverde (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 453-455, 2 figs.

Green, Morris W.

1976 Geologic map of the Continental Divide quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1338, scale 1:24,000

1979 Disconformities in the Grants, New Mexico, mineral belt and their relationship to uranium occurrence (abs.): U.S. Geol. Suvey, Prof. Paper 1150, p. 40-41

1980 Disconformities in Grants mineral belt and their relationship to uranium deposits, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 70–74, 17 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 12; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 689

1976 (and Jackson, T. J.) Geologic and structure contour maps of the Gallup East quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Openfile Rept. 76-453, 18 p., 2 sheets, scale 1:24,000

1977 (and Pierson, C. T.) A summary of the stratigraphy and depositional environments of Jurassic and related rocks in the San Juan Basin, Arizona, Colorado, and New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 147–152, 1 table, 1 fig.

see Pierson and Green, 1977, 1980; and Ridgley and others, 1978

Greene, D. K.

1976 (and Halpenny, L. C.) Basic-data report—Quintana Minerals Corporation Copper Flat Project, production wells, Hillsboro (Sierra County), New Mexico: Water Develop. Corp., consult. rept. to Quintana Minerals Corp., 67 p.

Greenlee, D. D.

see Fischer and others, 1978, 1979

Greenwood, Eugene

1979 Pennsylvanian production in southwestern U.S.A. (abs.): 9th Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 77

1977 (Kottlowski, F. E., and Thompson, Sam, III) Petroleum potential and stratigraphy of Pedregosa Basin—comparison with Permian and Orogrande Basins: Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 9, p. 1448-1469, 13 figs.

see Cys, Brezina, and Greenwood, 1977; and Cys, Greenwood, and Brezina, 1976

Greer, Albert R.

1978a La Plata Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 371-373, 3 figs.

1978b Puerto Chiquito Mancos, east (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 464–467, 3 figs.

1978c Puerto Chiquito Mancos, west (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 468-471, 3 figs.

see Gorham, F. D., and others, 1977, 1979

Gresens, Randall L.

1976 Geologic, geochemical, and geochronologic investigation of Precambrian metamorphic rocks of Las Tablas-La Madera quadrangles and the Picuris Range, northern New Mexico—a summary, in Tectonics and mineral resources of North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 132-137, 1 fig.

1977 (and Stensrud, H. L.) More data on red muscovite: Am. Mineralogist, v. 62, no. 11 and 12, p. 1245–1251, 1 table, 2 figs., 1 appendix

Grew, Edward S.

1979 Al-Si disorder of K-feldspar in crustal xenoliths at Kilbourne Hole, New Mexico: Am. Mineralogist, v. 64, no. 7-8, p. 912-916, 2 tables

see Davis, G. L., and Grew, 1978

Gries, John C.

1977 Possible extension of the Rio Grande rift south into Chihuahua, Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 23

1979 Problems of delineation of the Rio Grande rift into the Chihuahua tectonic belt of northern Mexico, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 107-113, 5 figs.; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487-C, p. 40-41

see Reynolds, D. M., and Gries, 1980; and Woodward, Callender, and others, 1978

Griffin, W. L.

see Ehrenberg and Griffin, 1979

Grigsby, Charles O.

see Holley and others, 1978; Keizer and others, 1979; and Taggart and Grigsby, 1976

Grogger, P. K.

see Larkin and others, 1980

Grose, L. T.

see Keller, G. V., Grose, and Crewdson, 1978; and Keller, G. V., Grose, and Pickett, 1978

Gross, Gerardo W.

1976 (Duffy, C. J., and Hoy, R. N.) Application of environmental tritium in the measurement of recharge and aquifer parameters in a semi-arid limestone terrain: New Mexico State Univ., Water Resources Research Inst., Rept. 080, 211 p.

1980 (Hoy, R. N., Duffy, C. J., and Rehfeldt, K. R.) Isotope studies of recharge in the Roswell Basin (NM) (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 48, p. 1191

see Duffy and others, 1978; and Rabinowitz and others, 1977a-c

Gross, Marvin C.

1977a High Plains Penn field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 116–117, 1 table, 1 fig.

1977b West Ranger Lake Devonian field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 160–161, 1 fig.

Gross, Richard S.

see Spence, W., Gross, and Jaksha, 1979

Grotho, Terry

see Ratte and Grotho, 1979

Grutt, Eugene, W., Jr.

1977 Uranium exploration methods development: Mining Congr. Jour., v. 63, no. 4, p. 60-67

G'Schwind, J. J.

see Dimitrijevich and others, 1976

Guarnera, B. J.

1978 Uranium exploration activities in the U.S.:

Mining Engineering, v. 30, no. 10, p. 1414–1416, 2 tables, 2 figs.

Guertin, Kateri

1979 Methodes geostatistiques d'estimation des reserves de gisements d'uranium de type trend de la region de Grants, Nouveau Mexique, et applications (Geostatistical methods applied to estimation of ore reserves from uranium trend deposits, Grants, New Mexico): M.S. thesis, Ecole Polytechnique, Univ. Montreal

Gunaji, Narendra N.

1978 (and others) A geothermal field near New Mexico State University and its potential as campus energy supplier, *in* Geothermal energy—a novelty becomes resource: Geothermal Resource Council, Trans... v. 2, p. 241–244

1978 (Thode, E. F., Chaturvedi, L. N., Walvekar, Arun, and LaFrance, Leo) Geothermal application feasibility study for the New Mexico State University campus: New Mexico Energy Inst., Rept. 13, 127 p.; Natl. Tech. Inf. Serv., Rept. PB-295 846/OWE, 127 p.; abs. in New Mexico Geology, 1980, v. 2, no. 1, p. 13

Gundersen, L. C.

see Turner-Petersen and Gundersen, 1980

Gunnell, G. F.

see Gingerich and Gunnell, 1979

Gunter, C. Phillip

1975 A lithofacies study of Desmoinesian rocks in east-central Eddy and west-central Lea Counties, New Mexico: M.S. thesis, Mississippi State Univ., 59 p.

1977 Golden Lane Strawn field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 102–103, 1 table, 1 fig.

Gutentag, E. D.

1980 (and Weeks, J. B.) Water table in the High Plains aquifer in 1978 in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming: U.S. Geol. Survey, Hydrol. Inv. Atlas HA-642, scale 1:2,500,000

Gutierrez, Alberto A.

1980a Channel and hillslope geomorphology of badlands in the San Juan Basin, northwestern New Mexico: M.S. thesis, Univ. New Mexico, 158 p.

1980b Sediment transport in badlands watersheds (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 440

see Ebert and Gutierrez, 1979

Gutjahr, Allan L.

see Arnold, Hill, Donaldson, and others, 1978; and Foster, R. W., Gutjahr, and Warner, 1978

Gutschick, V.

1978 (and Rea, K.) Environmental assessment of dissolved gases in LASL's hot dry rock geothermal source demonstration project: Natl. Tech. Inf. Serv., Rept. LA-UR-78-919, 5 p.; abs. in New Mexico Geology, 1979, v. 1, no. 3, p. 47

Guyton, W. F., and Associates

1978 Production of water from Westwater Canyon aquifer near Crownpoint, New Mexico, by Phillips Uranium Corporation for uranium mining: W. F. Guyton and Assoc., consult. rept. to Phillips Uranium Corp.

Guyun, Peter C.

1978 Spectral analysis of P-phases from mining explosions recorded in the Socorro, New Mexico, area: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 22, 88 p.

Hacker, Leroy W.

1977 Soil survey of Bernalillo County and parts of Sandoval and Valencia Counties, New Mexico: U.S. Dept. Agriculture, Soil Conserv. Serv., 101 p., 10 figs.

see Nyhan, Hacker, and others, 1978

Hackman, R. J.

1977 (and Olson, A. B.) Geology, structure, and uranium deposits of the Gallup 1° by 2° quadrangle, New Mexico and Arizona: U.S. Geol. Survey, Misc. Geol. Inv. Map I-981, scale 1:250,000

Hafen, P. L.

see Adams, S. S., and others, 1978

Hageman, Ronda K.

1978 The exploitation of hot dry rock geothermal resources—an application of the pure theory of exhaustion (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 28

Hagerman, Charles de B.

1976a General geology, water resources and ground-water conditions of the Arroyo de Yrisarri area, Bernalillo and Torrance Counties, New Mexico: consult. rept. to Manzano Springs residents, 10 p.

1976b General geology and ground-water conditions, Carson area, Taos County: consult. rept., 7 p.

Hagstrum, J. R.

see Brown, L. D., Reilinger, and Hagstrum, 1978

Hair, Gregory L.

1976 The Upper Pennsylvanian Panther Seep Formation (Virgilian) of the Franklin Mountains, Doña Ana County, New Mexico, and El Paso County, Texas, *in* Stratigraphy and structure of the Franklin Mountains: El Paso Geol. Soc., p. 61-66, 1 fig.

1977 Stratigraphy and microfacies analysis of Panther Seep Formation (Virgilian), Franklin Mountains, Texas, New Mexico: M.S. thesis, Univ. Texas (El Paso)

Hakonson, T. E.

1976 (Nyhan, J. W., and Purtymun, W. D.) Accumulation and transport of soil plutonium in liquid waste discharge areas at Los Alamos, *in* Transuranium nuclides in the environment: Internat. Atomic Energy Agency, p. 175–189

1980 (White, G. C., Gladney, E. S., and Dreicer, Mona) The distribution of mercury, cesium-137, and plutonium in an intermittent stream at Los Alamos: Jour. Environ. Quality, v. 9, no. 2, p. 289–292

see Purtymun, Buchholz, and Hakonson, 1977

Hall, Robert B.

1978 World nonbauxite aluminum resources—alunite: U.S. Geol Survey, Prof. Paper 1076-A, 35 p., 4 tables, 1 fig.

Häll, Rolf

see Dennis, J. G., and Häll, 1978

Hall, Stephen A.

1977 Late Quaternary sedimentation and paleoecologic history of Chaco Canyon, New Mexico: Geol. Soc. America, Bull., v. 88, no. 11, p. 1593-1618, 3 tables, 13 figs.

1980 Snails from Quaternary valley fill at Chaco

Canyon, New Mexico: Nautilus, v. 94, no. 2, p. 60-63 Halleck, P. M.

see Heiken and others, 1976

Halley, R. B.

see Scholle and Halley, 1980

Halpenny, Leonard C.

see Greene and Halpenny, 1976

Hamilton, David P.

1978a Jasis Canyon Fruitland (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 353-354, 2 figs.

1978b Twin Mounds Mesaverde (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 538-539, 3 figs.

1978c Twin Mounds Pictured Cliffs (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 540-542, 4 figs.

Hamilton, W.

1978 Mesozoic tectonics of the western United States, *in* Mesozoic paleogeography of the western United States, D. G. Howell, editor: 2nd Pacific Coast Paleogeog. Symp., p. 33-70

Handford, C. Robertson

1980 Pennsylvanian-Early Permian depositional systems and shelf-margin evolution, Palo Duro Basin, Texas: Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 1, p. 88-106, 1 table, 19 figs.

1980 (Presley, M. W., and Dutton, S. P.) Depositional and tectonic evolution of a basement-bounded, intracratonic basin, Palo Duro Basin, Texas (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 717

Hannum, D. W.

see Wawersik and Hannum, 1980

Hansel, J. M.

see Aamodt, Hansel, and others, 1977; and Weaver and others, 1978

Hanson, S. D.

1977 Catclaw Draw Morrow gas field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 74-75, 1 table, 2 figs.

Hardee, H. C.

1980 (and Luth, W. C.) Continental scientific drilling—comparative assessment of five potential sites for hydrothermal-magma systems (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1148–1149

Harden, S. N.

see Keller, G. R., Sinno, and others, 1979

Harder, Vicki

1980 (Morgan, Paul, and Swanberg, C. A.) Geothermal resources in the Rio Grande rift—origins and potential: Geothermal Resources Coun., Trans., v. 4, Sept., p. 61-64, 4 figs.

Harding, S. T.

see Hoffman and Harding, 1977

Hardt, W. F.

see Cooley and others, 1978

Hardy, E. E.

see Anderson, J. R., and others, 1976

Hare, P. E.

see Miller, G. H., and Hare, 1980

Hargraves, Robert B.

see Crough and others, 1980

Harkrider, David G.

see Bache and others, 1978

Harms, J. C.

1977 (and Fahnestock, R. K.) Stratification, bed forms, and flow phenomena (with an example from the Rio Grande), *in* Sedimentary processes—hydraulic interpretation of primary sedimentary structures: Soc. Econ. Paleontologists and Mineralogists, Reprint Ser. 3, p. 95–127

Harrington, Gerald E.

1977 Querecho Plains (Queen) field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 158–159, 1 table, 1 fig.

Harris, Arthur H.

1977 Wisconsin age environments in the northern Chihuahuan Desert—evidence from the higher vertebrates, in Transactions of the symposium on the biological resources of the Chihuahuan Desert region, United States and Mexico: U.S. Natl. Park Serv., Trans. Proc. Ser., no. 3, p. 23–52

1978 Paleontology, in The caves of McKittrick Hill, Eddy County, New Mexico—history and results of field work, 1965–1976, C. E. Kunath, editor: Texas Speleological Soc., p. 69–73

1980 The paleoecology of Dry Cave, New Mexico: Natl. Geog. Soc., Research Rept. 12, p. 331-338

1980 (and Porter, L. S. W.) Late Pleistocene horses of Dry Cave, Eddy County, New Mexico: Jour. Mammalogy, v. 61, no. 1, p. 46-65

see Magish and Harris, 1976

Harris, Jay J.

1978 Otero Pictured Cliffs (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 195-196

Harrison, Richard W.

1980 Geology of the northeastern Datil Mountains, Socorro and Catron Counties, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 136, 146 p., 3 tables, 36 figs., 2 sheets, scale 1:24,000; M.S. thesis, New Mexico Inst. Mining and Tech.

Harshbarger, John W., and Associates

1976 Water requirements and aquifer analysis for in-situ leaching pilot test, Cerrillos, New Mexico: consult. rept. to Occidental Minerals Corp.

see Cooley and others, 1978

Hart, D. L., Jr.

1979a (and Smith, C. S.) Ground water in the vicinity of Capulin, New Mexico: Natl. Tech. Inf. Serv., Rept. PB-300 827, 64 p.; U.S. Geol. Survey, Water-resources Inv. 79-79, 64 p.

1979b (and Smith, C.) Aquifer near Capulin (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 124-125

Hart, Howard R., Jr.

see Fleischer, Hart, and Mogro-Campero, 1980

Hart, S. R.

1980 (Padovani, E. R., and Richardson, S. H.) Geochemistry of lower crustal granulite xenoliths, Kilbourne Hole, New Mexico (abs.): 26th Internat. Geol. Congr., Abs., v. 2, p. 775

1979 (Padovani, E. R., and Roden, M. K.) Srisotopic relationships in lower crustal nodules from Kilbourne Hole, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 439 see James and others, 1980a,b; and Richardson, S.

H., and others, 1980

Hartman, Harold

see Reiter, Simmons, and others, 1976; and Reiter, Weidman, and others, 1976

Harvie, C. E.

1980 (Weare, J. H., and others) Evaporation of seawater-calculated mineral sequences: Science, v. 208, no. 4443, p. 498-500

Harwood, R. J.

see Ross, L. M., and Harwood, 1979

Hassemer, J. R.

see Watts and Hassemer, 1980; Watts, Hassemer, Forn, and Siems, 1979; Watts, Hassemer, Nishi, and Siems, 1978; and Watts, Hassemer, Siems, and Nishi, 1978

Hatch, J. R.

see Pillmore and Hatch, 1976

Hatlelid, W. G.

see Bubb and Hatlelid, 1978

Hattin, D. E.

1979 Regional stratigraphy of limestone marker beds in Bridge Creek Member, Greenhorn Limestone (Upper Cretaceous), Western Interior, United States (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 3, p. 464

Hatton, Kay S.

1977 Geothermal, in New Mexico's energy resources '76, E. C. Arnold, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 148, p. 26-27

1978 Geothermal energy, in New Mexico's energy resources '77, E. C. Arnold, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 167, p. 42-46

1980a Geothermal energy, in New Mexico's energy resources '79, E. C. Arnold and J. M. Hill, compilers: New Mexico Bureau Mines Mineral Resources, Circ. 172, p. 49-53

1980b Geothermal research and exploration in New Mexico (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 33

see Anderson, O. J., Hatton, and Kottlowski, 1977

Haugh, B. N.

1978 Biodynamic and phyletic paradigms for sensory organs in camerate crinoids: Lethaia, v. 11, p. 145-173

Havenor, Kay C.

1977 (editor) The oil and gas fields of southeastern New Mexico, 1977 supplement: Roswell Geol. Soc., 220 p.

see Ahlen and Havenor, 1977

Havens, J. S.

1979 (and Wilkins, D. W.) Experimental salinity alleviation at Malaga Bend of the Pecos River, Eddy County, New Mexico: Natl. Tech. Inf. Serv., Rept. PB-80 177 900, 71 p. [1980]; U.S. Geol. Survey, Water-resources Inv. 80-4, 71 p. [1980]

Hawley, John W.

1978a (compiler) Guidebook to Rio Grande rift in New Mexico and Colorado: New Mexico Bureau Mines Mineral Resources, Circ. 163, 241 p., 4 tables, 157 figs., 2 color sheets

1978b Rio Embudo to Santa Fe, New Mexico, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 46-49, 4 figs.

1978c Rio Salado rest area to Rio Grande bridge (1-25), in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163,

p. 137-144, 5 figs.

1978d Correlation chart 1-major Quaternary stratigraphic and geomorphic units in Rio Grande rift region, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 238-241

1978e Correlation chart 2-middle to upper Cenozoic stratigraphic units in selected areas of the Rio Grande rift in New Mexico, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 239-241

1980 Approaches to environmental geology in New Mexico: The Eng. Geologist, v. 15, no. 3, p. 14

1976 (Bachman, G. O., and Manley, Kim) Quaternary stratigraphy in the Basin and Range and Great Plains provinces, New Mexico, and western Texas, in Quaternary stratigraphy of North America, W. C. Mahaney, editor: Stroudsburg, Pennsylvania, Dowden, Hutchinson and Ross, Inc., p. 235-274

1978 (Burroughs, R. L., Lipman, P. W., and Muehlberger, W. R.) Santa Fe to Alamosa, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 49-55

1978 (Chapin, C. E., Chamberlin, R. M., Lambert, P. W., and Kottlowski, F. E.) Santa Fe to Socorro, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 169-

1978 (Chapin, C. E., and Osburn, G. R.) Elephant Butte Reservoir to Socorro, in Guidebook to the Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 91-92, 96, 98-101, 5 figs.

1978 (and Galusha, Ted) Bernalillo to south of San Ysidro, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 177-182, 1 fig.

1978 (and Kottlowski, F. E.) Bernalillo to Santa Fe, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 158-169, 7 figs.

1978 (Lovejoy, E. M. P., Seager, W. R., Chapin, C. E., Chamberlin, R. M., and Osburn, G. R.) Socorro to El Paso, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 101-111

1978 (and Seager, W. R.) New Mexico-Texas state line to Elephant Butte Reservoir, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 71-91, 20 figs.

see Budding, Robertson, and others, 1979; Chapin, Chamberlin, and Hawley, 1978; Foster, R. W., Austin, and others, 1977; Muehlberger and Hawley, 1978; Seager, Kottlowski, and Hawley, 1976; Seager, Morgan, and Hawley, 1978; Siemers, W. T., Hawley, and others, 1978; Sridhar and others, 1978; and Stone, W. J., Mizell, and Hawley, 1979

Hayes, J. M.

see Des Marais and others, 1980

Hayes, Philip T.

1978 Cambrian and Ordovician rocks of southeastern Arizona and southwestern New Mexico: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 165–173, 6 figs.

1979 (and Bachman, G. O.) Examination and reevaluation of evidence for the Barrera fault, Guadalupe Mountains, New Mexico: U.S. Geol. Survey, Open-file Rept. 79–1520, 11 p.

see Strobell and others, 1980

Haynes, P.

see Kimbler and Haynes, 1979

Hays, Walter W.

see King, K. W., and Hayes, 1977

Hayslip, David L.

1980 (Fuller, G. E., Levy, P. W., and Renault, J. R.) Thermoluminescence of uranium host rocks in Ambrosia Lake area, *abs. in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 398; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 12-13; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 689

1976 (and Renault, J. R.) Potential of quartz thermoluminescence in uranium exploration (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 590 see Renault and Hayslip, 1976, 1977

Hazen Research, Inc.

1979 Consulting service at Mining and Milling Corporation of America, core-drilling program on the Winkler anticline, Hachita, Hidalgo County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 108, 32 p., 2 figs., appendix Healey, Don L.

1976 Interpretation of gravity surveys in intermontane basins of Nevada and New Mexico, *in* Site investigation methodology for multiple air point missile systems: Air Force Weapons Lab, Kirtland Air Force Base, AFWL-TR-76-145, p. 107-127

1978 (Wahl, R. R., and Currey, F. E.) Gravity survey of the Tularosa Valley and adjacent areas, New Mexico: U.S. Geol. Survey, Open-file Rept. 78–309, 21 p., 1 fig., 4 pls.; *abs. in* New Mexico Geology, 1979, v. 1, no. 1, p. 15

see Bath and others, 1977

Hearne, G. A.

1977 Evaluation of a potential well field near Church Rock as a water supply for Gallup, New Mexico: Natl. Tech. Inf. Serv., Rept. PB-274 713, 26 p. [1978]; U.S. Geol. Survey, Water-resources Inv. 77-98, 26 p. [1978]

1980a Simulation of an aquifer test on the Tesuque

Pueblo Grant, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-1022, 47 p. [1981]

1980b Mathematical model of the Tesuque aquifer system underlying Pojoaque River basin and vicinity, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-1023, 195 p. [1981]

see Kelly and Hearne, 1976

Heatwole, C. G.

see Keller, L. F., and others, 1977

Hedge, C. E.

see Wobus and Hedge, 1980

Hedlund, David C.

1976 Age of Rubio Peak Formation, Black Range, New Mexico, *in* Geological Survey research: U.S. Geol. Survey, Prof. Paper 1000, p. 77

1977a Geologic map of the Hillsboro and San Lorenzo quadrangles, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-A, 2 sheets, scale 1:48,000 [1978]

1977b Mineral resources of the Hillsboro and San Lorenzo quadrangles, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-B, scale 1:48,000

1978a Geologic map of the Wind Mountain quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1031, scale 1:24,000 [1979]

1978b Geologic map of the Soldiers Farewell Hill quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1033, scale 1:24,000

1978c Geologic map of the Ninetysix Ranch quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1034, scale 1:24,000

1978d Geologic map of the Gold Hill quadrangle, Hidalgo and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1035, scale 1:24,000

1978e Geologic map of the Hurley East quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1036, scale 1:24,000

1978f Geologic map of the Tyrone quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1037, scale 1:24,000 [1979]

1978g Geologic map of the Werney Hill quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1038, scale 1:24,000

1978h Geologic map of the C Bar Ranch quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1039, scale 1:24,000

1978i Geologic map of the Burro Creek quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1040, scale 1:24,000 [1979]

1978j Geologic map of the White Signal quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1041, scale 1:24,000 [1979]

1979 Background information to accompany folio of geologic, mineral resource, geochemical, aeromag-

netic, and gravity maps of the Hillsboro and San Lorenzo quadrangles, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Circ. 808, 26 p.

1980a Geologic map of the Redrock SE quadrangle, Grant and Hidalgo Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1265, scale 1:24,000

1980b Geologic map of the Redrock NW quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1263, scale 1:24,000 [1981]

1980c Geologic map of the Redrock NE quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1264, scale 1:24,000 [1981]

see Wynn and Hedlund, 1979

Heiken, Grant

1976 (Halleck, P. M., and McGetchin, T. R.) Tephra formation in ash flow eruptions (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 912 see Ander, Heiken, and others, 1979

Heimlich, R. A.

1976 Morphology of zircons from Precambrian rocks penetrated by geothermal test hole GT-2: Los Alamos Sci. Lab., Rept. LA-6433-MS, 10 p.

Heinrich, E. William

1980 Variation in distribution patterns of Precambrian Al₂SiO₅ minerals in the Rocky Mountains (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 445

Hejl, H. R.

1979 Hydrology of coal areas in northwestern New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 125

Heller, J. S.

see O'Sullivan, Scott, and Heller, 1979a-d; Scott, G. R., O'Sullivan, and Heller, 1979a-c; and Weide, O'Sullivan, and Heller, 1979

Helmick S. B.

1976 (Brookins, D. G., Balagna, J. P., and Husler, J.) Trace element analyses of granitic cores from LASL dry hot rock experiment (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 350

Helsen, J. N.

1978 (Shaw, D. M., and Crocket, J. H.) Tungsten abundances in some volcanic rocks: Geochim. et Cosmochim. Acta, v. 42, no. 7, p. 1067-1070, 5 tables, 3 figs.

Helsley, C. E.

1977 Time of origin of the magnetization of red sediments—field evidence (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 8, p. 729

Hendron, R. H.

1978 Hot dry rock energy project, in Geothermal energy and hydropower, T. N. Veziroglu, editor: Washington, Hemisphere Pub. Corp., v. 6, p. 2655-2687

Henkes, W. C.

1976 (Irwin, J. H., and Pratt, W. P.) Status of mineral resources information for the Ute Mountain Indian Reservation, Colorado, and New Mexico: U.S. Bureau Indian Affairs, Rept. BIA-17, p. 45-46

1977a Paduca Devonian field, Lea County, New Mexico, in The oil and gas fields of southeastern New

Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 144-145, 1 table, 1 fig.

1977b Paduca Morrow field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 146-147, 1 table, 1 fig.

1977c Paduca Wolfcamp field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 148, 1 table

1977d Red Hills Penn field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 162–163, 1 table, 1 fig.

1977e Red Hills Wolfcamp field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 164–165, 1 table, 1 fig.

Herkenhoff, Gordon, and Associates

1976 Water availability, in sketch plan submitted data for Cerros Cantando, Santa Fe County, New Mexico: Herkenhoff and Assoc., consult. rept., 28 p.

1977 Program of study, Ogallala aquifer, Lea County, New Mexico: Herkenhoff and Assoc., consult. rept. to City of Hobbs, 9 p.

1977 (and Summers, W. K., and Associates) Geology and hydrology of a site proposed for burial of low-level solid radioactive waste, western Colfax County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 79, 3 v.; v. 1—226 p. (text); v. 2 and 3—appendices; 985 p., 24 tables, 40 figs., 6 appendices

Hermance, John F.

1979 Toward assessing the geothermal potential of the Jemez Mountains volcanic complex—a telluric-magnetotelluric survey: Natl. Tech. Inf. Serv., Rept. LA-7656-MS, 89 p.; abs. in New Mexico Geology, 1980, v. 2, no. 1, p. 12

1978 (and Pedersen, J.) Evidence for molten material at shallow to intermediate crustal levels beneath the Rio Grande rift at Santa Fe (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 4, p. 390

1980 (and Pedersen, J.) Deep structure of the Rio Grande rift—a magnetotelluric interpretation: Jour. Geophys. Research, v. 85-B, no. 7, p. 3899-3912; abs. in International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487-C, p. 41-42

see Pedersen, Alvarez, and Hermance, 1979; and Pedersen and Hermance, 1979

Hern, J. L.

1979 Geophysical investigations for pilot plant for nuclear-waste isolation in southeastern New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 3, p. 465-466

1978 (and Elliot, C. L.) Geophysical investigations for a nuclear waste isolation pilot plant in southeastern New Mexico (abs.): Soc. Explor. Geophys., 48th internat. mtg., Abs., p. 72-73

Hernandez, John W.

1978 Interrelationship of ground and surface water quality in the El Paso-Juarez and Mesilla Valleys: Natural Resources Jour., v. 18, no. 1, p. 1-9

Herrick, C. C.

see Charles and Herrick, 1976

Herrin, Eugene

see Reinke and Herrin, 1979

Herring, James R.

see Hinkley and others, 1980a,b

Herrman, Robert B.

1980 (Dewey, J. W., and Park, Sam-Kuen) The Dulce, New Mexico, earthquake of 23 January 1966: Seismol. Soc. America, Bull., v. 70, no. 6, p. 2171-2183

1979 (and Park, Sam-Kuen) The Dulce, New Mexico, earthquake of January 23, 1966, *in* Earthquake hazard studies in southeast Missouri, W. S. Stauder, editor: U.S. Geol. Survey, rept., p. 80-97

Hewett, Nancy S.

1977 The prehistory of the San Juan Basin: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 65-75, 1 table, 1 fig.

Heyl, A. V.

1976 Preliminary geologic map of the Winston quadrangle, Sierra County, New Mexico: U.S. Geol. Survey, Open-file Rept. 76-858, scale 1:24,000

see Maxwell, C. H., and Heyl, 1976, 1980

Hicks, Charles W.

1977 North Morton Permo-Penn, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 138–139, 1 table, 1 fig.

Hicks, O. N. see Cooley and others, 1978

Hicks, Randall T.

1980 (Lowy, R. M. [Lowry, in book], Della Valle, R. S., and Brookins, D. G.) Petrology of Westwater Canyon Member, Morrison Formation, East Chaco Canyon drilling project, New Mexico—comparison with Grants mineral belt, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 208-214, 1 table, 8 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 13

High Life Helicopters

1979 (and Geodata International) Aerial radiometric and magnetic survey—Socorro national topographic map, New Mexico: U.S. Dept. Energy, Rept. GJBX-163-79, scale 1:500,000

Hildenbrand, Rick T.

see Schneider, Hildenbrand, and Affolter, 1979

Hildenbrand, T. G.

see Cordell, Keller, and Hildenbrand, 1978

Hildreth, Wes

see Shaw, H. R., and others, 1976

Hileman, M. E.

see Wright, R. P., and others, 1977

Hill, Carol A.

1978 Geology and mineralogy of cave nitrates: M.S. thesis, Univ. New Mexico, 125 p.

Hill, E. Bruce

1978 Regional compaction gradients in Mississippian age limestones (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 421

Hill, J. Gilmore

1976 (editor) Geology of the Cordilleran hingeline: Rocky Mtn. Assoc. Geol., Guidebook 1976 symp., 432 p. Hill, James M.

1978 (compiler) Contour map showing estimated ultimate recovery for wells in the Blanco Mesaverde gas pool in northwest New Mexico, *in* New Mexico's energy resources '77, E. C. Arnold, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 167, 1 sheet in pocket

see Arnold, Foster, and others, 1976; Arnold and Hill, 1980a,b; Arnold, Hill, and Donaldson, 1980; Arnold, Hill, Donaldson, and Foster, 1977; and Arnold, Hill, Donaldson, and others, 1978

Hill, Leslie R.

1979 Site evaluation for the Waste Isolation Pilot Plant (WIPP): Geological Disposal Nuclear Waste, 19th ann. symp., p. 71-73

Hill, Steve R.

1980 Geology of the Mining Mountain area, Cuba, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 116 p., 5 figs., 3 pls., 5 appendices, 1 sheet

Hillebrand, Cary

see Ander, Goss, and others, 1980

Hills, John M.

1979 Delaware Basin sedimentation, tectonism, and hydrocarbon generation, in Guadalupian Delaware Mountain Group of west Texas and southeast New Mexico, N.M. Sullivan, editor: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., p. 1

1980 Tectonics of the western Permian Basin (abs.): Am. Assoc. Petroleum Geologists, Southern

Sec., Ann. Mtg., Program, p. 34

1979 (and Hoenig, M. A.) Proposed type sections of Upper Silurian and Lower Devonian subsurface units in Permian Basin, west Texas: Am. Assoc. Petroleum Geologists, v. 63, no. 9, p. 1510-1521, 6 figs., 1 appendix

see Keller, G. R., Hills, and Djeddi, 1980a, b

Hinds, Jim S.

see Fassett and Hinds, 1977

Hines, John J.

see Fried and others, 1978

Hines, Steven A.

1976 Origins of ore-controlling folds in the Todilto Limestone, Grants mining district, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 141 p., 48 figs., 6 pls., 3 appendices

Hinkebein, T. E.

1979 (and Hlava, P. F.) Interactions of simulated waste radionuclides and rocks, *in* Scientific basis for nuclear waste management, v. 1, G. J. McCarthy, editor: New York, Plenum Press, p. 419-422

Hinkley, Todd K.

1980a (Herring, J. R., Smith, K. S., and Boerngen, J. G.) Overburden geochemistry of the U.S. Bureau of Land Management experimental coal mining reclamation site at Ojo Encino, northeast McKinley County, San Juan Basin, New Mexico: U.S. Geol. Survey, Open-file Rept. 80–1226, 21 p.

1980b (Herring, J. R., Smith, K. S., and Boerngen, J. G.) Overburden geochemistry of U.S. Bureau of Land Management experimental coal mining reclamation site at Kimbeto, southeastern San Juan County, San Juan Basin, New Mexico: U.S. Geol. Survey, Open File Bent, 80, 1354, 26 p.

Open-file Rept. 80-1254, 26 p.

Hiss, William L.

1975 Stratigraphy and ground-water hydrology of the Capitan aquifer, southeastern New Mexico and western Texas: Ph.D. thesis, Univ. Colorado (Boulder), 501 p.; Dissert. Abs. Internat., 1976, v. 37, no. 2, p. 670-B

1976a Evaluation and proposed study of potential ground-water supplies, Gallup area, New Mexico: U.S. Geol. Survey, Open-file Rept. 76-522, 153 p., 2 tables, 4 figs.

1976b Map showing thickness of the Permian (Guadalupian) Capitan aquifer, southeast New Mexico and west Texas: U.S. Geol. Survey, open-file map

1976c Structure of the Permian (Guadalupian) Capitan aquifer, southeast New Mexico and west Texas: New Mexico Bureau Mines Mineral Resources, Resource Map 6, scale 1 inch = ~8 mi; U.S. Geol. Survey, Open-file Rept. 76-53, 2 sheets

1976d Structure of the Permian Ochoan Rustler Formation, southeast New Mexico and west Texas: New Mexico Bureau Mines Mineral Resources, Resource Map 7, scale 1 inch = ~ 8 mi; U.S. Geol. Survey, Open-file Rept. 76-54

1977 Uranium mine waste water—a potential source of ground water in northwestern New Mexico: U.S. Geol. Survey, Open-file Rept. 77-625, 10 p., 1 table, 25 figs.

1980 Movement of ground water in Permian Guadalupian aquifer systems, southeastern New Mexico and western Texas: New Mexico Geol. Soc., Guidebook 31st field conf., Trans-Pecos, p. 289-294, 4 figs.

1976 (and Marshall, J. G.) Interpretation of geologic and hydrologic data from the Ray-1 well, City of Gallup, McKinley County, New Mexico (abs.): Sel. Water Resources Abs., v. 9, no. 9, p. 21

see Calzia and Hiss, 1978; and Mercer and Hiss,

Hitchcock, Robert K.

see Lyons and others, 1976

Hlava, P. F.

1979 Microprobe analyses of columbites and tantalites from the Globe and Harding mines (abs.): Univ. New Mexico, New Mexico Minerals Symp., p. 6

see Hinkebein and Hlava, 1979

Hodges, Floyd N.

see Barker, D. S., and Hodges, 1977; and Barker, D. S., Long, and others, 1977

Hodgson, Helen E.

1978 (editor) Proceedings of the second symposium on the geology of Rocky Mountain coal—1977: Colorado Geol. Survey, Resource Ser. 4, 219 p.

Hodson, M. V.

1980 (Calhoun, J. E., and others) Soil survey of Chaves County, New Mexico, southern part: U.S. Dept. Agriculture, Soil Conserv. Serv., 143 p.

Hoenig, Margaret Allen

see Hills and Hoenig, 1979

Hoffer, Jerry M.

1976a Geology of Potrillo Basalt field, south-central New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 149, 30 p., 11 tables, 12 figs., 1 sheet

1976b The Potrillo Basalt field, south-central New

Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 89-92, 6 figs.

see Dickerson and Hoffer, 1980; and Taylor, B., and others, 1980

Hoffman, John P.

1977 (and Harding, S. T.) Strong ground motion in the Tularosa Basin, New Mexico: U.S. Geol. Survey, Open-file Rept. 77–143, 46 p., 18 figs.

1977 (and Northrop, S. A.) The Dulce, New Mexico, earthquake, January 23, 1966: Earthquake Notes, v. 48, no. 4, p. 3–20, 1 table, 6 figs.; *errata in* Earthquake Notes, v. 49, no. 2, p. 32

Hoggatt, W. C.

1977 (Silberman, M. L., and Todd, V. R.) K-Ar ages of intrusive rocks of the central Peloncillo Mountains, Hidalgo County, New Mexico: Isochron/West, no. 19, p. 3-6, 1 table, 1 fig.

see Armstrong, A. K., Silberman, and others, 1978 **Hohmann, Gerald W.**

1979 (and Jiracek, G. R.) Bipole-dipole interpretation with three-dimensional models (including a field study of Las Alturas, New Mexico): U.S. Dept. Energy, Rept. DOE/ET/28392-29

Holcombe, H. Truman

see Jiracek, Ander, and Holcombe, 1979

Holdaway, M. J.

1978 Significance of chloritoid-bearing and staurolite-bearing rocks in the Picuris Range, New Mexico: Geol. Soc. America, Bull., v. 89, no. 9, p. 1404– 1414, 12 tables, 5 figs.

Holen, Harlen K.

see Chenoweth and Holen, 1980

Holley, C. E., Jr.

1978 (Blatz, L. A., Tester, J. W., and Grigsby, C. O.) A small geothermal test loop (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 19

Hollister, L. S. see Burrus

see Burruss and Hollister, 1979

Holloway, J. R.

see Wilshire and others, 1977

Holmes, Charles R.

see Rabinowitz and others, 1977a-c

Holts, Candace L.

1979a Fayette A. Jones, mining engineer—a profile in diversity: New Mexico Geology, v. 1, no. 4, p. 53-54, 63, 1 fig.

1979b History of New Mexico Bureau of Mines and Mineral Resources as recorded in legislation, annual reports, and notes 1927-1977: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 100, 215 p. see also Merillat, Candace Holts

Homuth, E. F.

see Olsen, K. H., Keller, Stewart, and others, 1977; and Pearson and others, 1980

Honea, Joseph

1978 Some edaphic characteristics of a mesquite (*Prosopis julisflora*) infested rangeland in southern New Mexico (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 5

Hook, Stephen C.

1977 (and Cobban, W. A.) Pycnodonte newberryi (Stanton)—common guide fossil in Upper Cretaceous of New Mexico: New Mexico Bureau Mines Mineral

Resources, Ann. Rept. 1976-77, p. 48-54, 5 figs.

1979 (and Cobban, W. A.) *Prionocyclus novimexicanus* (Marcou)—common Upper Cretaceous guide fossil in New Mexico: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1977–78, p. 34–42, 1 pl., 4 figs.

1980a (and Cobban, W. A.) Reinterpretation of type section of Juana Lopez Member of Mancos Shale: New Mexico Geology, v. 2, no. 2, p. 17–22, 1

table, 6 figs.

1980b (and Cobban, W. A.) Some guide fossils in Upper Cretaceous Juana Lopez Member of Mancos and Carlile Shales, New Mexico: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1978–79, p. 38–49, 7 figs.

1980 (Cobban, W. A., and Landis, E. R.) Extension of the intertongued Dakota Sandstone-Mancos Shale terminology into the southern Zuni Basin: New Mexico Geology, v. 2, no. 3, p. 42-44, 46

1976 (and Flower, R. H.) *Tajaroceras* and the origin of the Troedssonellidae: Jour. Paleontology, v.

50, no. 2, p. 293-300, 2 pls., 1 fig.

1977 (and Flower, R. H.) Late Canadian (Zones J, K) cephalopod faunas from southwestern United States: New Mexico Bureau Mines Mineral Resources, Mem. 32, 102 p., 21 pl., 1 table, 13 figs.

see Chapin, Osburn, and others, 1979; and Cobban and Hook, 1979, 1980

Hoops, G. Karl

see Barker, D. S., Long, and others, 1977

Hoover, D. B.

1978 (Long, C. L., and Senterfit, R. M.) Some results from audiomagnetotelluric investigations in geothermal areas: Geophysics, v. 43, no. 7, p. 1501–1514, 1 table, 11 figs.

Hopkins, L. C.

see Styron and others, 1979

Hoppe, W. F.

1978a Alamo Farmington (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 177-178, 3 figs.

1978b Animas Chacra (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 184-185, 1 fig.

1978c Basin Dakota (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 204-206, 4 figs.

1978d Bloomfield Chacra (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 241–242, 3 figs.

1978e Harris Mesa Chacra (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 329-330, 3 figs.

1978f Largo Chacra (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 374–375, 3 figs.

1978g Otero Chacra (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 442-443, 3 figs.

Hopson, P. S.

1978 Gallegos Fruitland (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 312–313, 3 figs.

Hornbeck, James M.

1978 Flora Vista Gallup (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 294–297, 4 figs.

Horton, E. H.

see Dennis, B. R., and Horton, 1978; and Lawton and Horton, 1979

Hosseini, Masood S.

1980 Bioherms of the Laborcita Formation, northern Sacramento Mountains, New Mexico: M.S. thesis, Univ. Southwestern Louisiana, 71 p.

Houghton, A. V.

see Kauffman and others, 1980

Howe, H. J.

1979 Carbonate rocks of Montoya Group (Middle and Upper Ordovician) of Trans-Pecos Texas (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 3, p. 469

Hoy, Roberta N.

see Gross, G. W., Duffy, and Hoy, 1976; and Gross, G. W., Hoy, and others, 1980

Hsu, Y. C.

1979 Enhanced heat extraction from hot-dry-rock geothermal reservoirs due to interacting secondary thermal cracks: New Mexico Energy Inst., Rept. NMEI- 27, 31 p.

1978 (Lu, Y.-M., Ju, F. D., and Dhingra, K. C.) Engineering methods for predicting productivity and longevity of hot-dry-rock geothermal reservoir in the presence of thermal cracks: New Mexico Energy Inst., Rept. NMEI-15, 111 p.

Huang, Wen H.

1979 Comparison of uranium deposits of Grants mineral belt and Texas Gulf Coast Plain, *abs. in* Grants uranium region, a symposium: Am. Assoc. Petroleum Geologists, Program, p. 23

Huddle, J. W.

see Dutro and others, 1979

Hudson, Cassandra

see Ander, Goss, and others, 1980

Hudson, Hugh H.

1978 Availability and quality of water related to energy in western United States (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 7, p. 1222

Hudson, J. D.

1976a Ground-water levels in New Mexico for calendar year 1974: New Mexico State Engineer, basic-data rept., 112 p.

1976b Ground-water levels in New Mexico for calendar year 1975: New Mexico State Engineer, basic-data rept., 128 p.

1976-77a Ground-water depletion, in feet, allowed in the northern and central parts of Lea County, New Mexico, by U.S. Internal Revenue Service for calendar years 1975-76: New Mexico State Engineer, Maps LC-18-19 and LN-18-19, 4 sheets

1976-77b Ground-water depletion, in feet, allowed in a part of Curry County, New Mexico, by U.S. Internal Revenue Service for calendar years 1975-76: New Mexico State Engineer, Maps CU-16-17, 2 sheets

1976-77c Ground-water depletion, in feet, allowed in Portales Valley, Roosevelt County, New Mexico, by U.S. Internal Revenue Service for calendar years

1975-76: New Mexico State Engineer, Maps RO-19-20, 2 sheets

1978a A compilation of hydrologic data before and during highway construction in parts of Tijeras Canyon, New Mexico, 1972-77: U.S. Geol. Survey, Open-file Rept. 78-238, 82 p., 8 tables, 5 figs.

1978b Ground-water levels in New Mexico, 1976: New Mexico State Engineer, basic-data rept., 184 p., 56 tables, 35 figs.; Sel. Water Resources Abs., v. 12, no. 14, p. 8

1979a Ground-water depletion, in feet, allowed in northern Lea County, New Mexico, by U.S. Internal Revenue Service for calendar year 1978: New Mexico State Engineer, Map LN-21, scale 1:125,000; Sel. Water Resources Abs., v. 12, no 15, p. 66

1979b Ground-water depletion, in feet, allowed in central Lea County, New Mexico, by U.S. Internal Revenue Service for calendar year 1978: New Mexico State Engineer, Map LC-21, scale 1:125,000; Sel. Water Resources Abs., v. 12, no. 15, p. 66

1979c Ground-water depletion, in feet, allowed in a part of Curry County, New Mexico, by U.S. Internal Revenue Service for calendar year 1978: New Mexico State Engineer, Map CU-19, scale 1:125,000; Sel. Water Resources Abs., v. 12, no. 15, p. 66

1979d Ground-water depletion, in feet, allowed in Portales Valley, Roosevelt County, New Mexico, by U.S. Internal Revenue Service for calendar year 1978: New Mexico State Engineer, Map RO-22, scale 1:125,000; Sel. Water Resources Abs., v. 12, no. 15, p. 66

1980 A compilation of hydrologic data before and during highway construction in parts of Tijeras Canyon, New Mexico, 1972–78: U.S. Geol. Survey, Open-file Rept. 80–332, 79 p.

Huestis, Stephen P.

1979 Constraints on the thermal structure of the Rio Grande rift (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 46, p. 953

see Ander, Heiken, and others, 1979; and Ander and Huestis. 1978

Huffman, A. Curtis, Jr.

1976 Preliminary geologic map of the Sand Spring quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 76–408, scale 1:24,000

1977 Preliminary geologic map of the Redrock Valley NE quadrangle, Apache County, Arizona, and San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 77–227, scale 1:24,000

1979 Preliminary geologic map of the Mitten Rock quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79–723, scale 1:24,000

1978 (and Jones, T. W.) Preliminary geologic map of the Redrock Valley SE quadrangle, Apache County, Arizona, and San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-404, scale 1:24,000

1980 (Kirk, A. R., and Corken, R. J.) Depositional environments as ore controls in Salt Wash Member, Morrison Formation (Upper Jurassic), Carrizo Mountains area, Arizona and New Mexico, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 122–130, 1 table, 11 figs.; *abs. in* Grants uranium region, a

symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 13; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 689-690

1977 (and Lupe, R. D.) Influences of structure on Jurassic depositional patterns and uranium occurrences, northwestern New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 277–283, 1 table, 5 figs.

see Kirk, Huffman, and others, 1978

Hung, C. C.

1978 Conodonts from the Devonian System in the Sacramento Mountains, Otero County, New Mexico: M.S. thesis, West Texas State Univ.

Hunt, Charles B.

1977a Surficial geology of northeast New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 40, scale 1:500,000

1977b Surficial geology of southeast New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 41, scale 1:500,000

1978a Surficial geology of southwest New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 42, scale 1:500,000

1978b Surficial geology of northwest New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 43, scale 1:500.000

Hunter, Bruce E.

1979 Regional analysis of the Point Lookout Sandstone, Upper Cretaceous, San Juan Basin, New Mexico-Colorado: Ph.D. thesis, Texas Tech. Univ.; Dissert. Abs. Internat., 1980, v. 40, no. 9, p. 4170-B-4171-B

Hunter, D. R.

see Barker, F., Friedman, and others, 1976

Hunter, Thomas O.

1979 Technical issues for WIPP: Geological Disposal Nuclear Waste, 19th ann. symp., p. 75–80 see Krieg and Hunter, 1980

Hurley, Neil F.

1978 Facies mosaic of the lower Seven Rivers Formation (Permian), North McKittrick Canyon, Guadalupe Mountains, New Mexico: M.S. thesis, Univ. Wisconsin (Madison), 198 p., 4 tables, 45 figs., 15 pls.

1979 Seaward primary dip of fall-in beds, lower Seven Rivers Formation (Permian), Guadalupe Mountains (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 3, p. 471

Hurley, Timothy J.

1980 Depositional environments of Morrowan sandstones, Carlsbad field, Eddy County, New Mexico: M.S. thesis, Texas Tech. Univ.

Husler, John W.

see Helmick and others, 1976; Woodward, McLelland, and Husler, 1977; Woodward, Parchman, and others, 1979; and Woodward, Snyder, and Husler, 1978

Hutchinson, Peter

see Woodward, Ingersoll, Fitch, and Hutchinson, 1979a, b

Hydrotechnics

1976 Pump test of Sierra Vista-South Estates well 1 (10.5.2.141), Bernalillo County, New Mexico: Albuquerque, Hydrotechnics, consult. rept. to Sierra Vista Estates, 13 p.

Imhoff, E. A.

1976 (Friz, T. O., and LaFevers, J. R.) A guide to state programs for the reclamation of surface mined areas, New Mexico: U.S. Geol. Survey, Circ. 731, 33 p.

Ingersoll, Raymond V.

1979a Schematic stratigraphic nomenclature chart for Santa Fe country: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p, x

1979b Stratigraphy and paleoenvironments of the Hagan Basin, north-central New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 197–200. 1 fig.

1979c (editor) Archaeology and history of Santa Fe country: New Mexico Geol. Soc., Spec. Pub. 8, 18 p., 1 table, 7 figs.

1979 (and Woodward, L. A., editors) Guidebook of Santa Fe country: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, 310 p.

see Gorham, T. W., and Ingersoll, 1979; Vazzana and Ingersoll, 1980; Woodward and Ingersoll, 1979; Woodward, Ingersoll, Fitch, and Hutchinson, 1979a, b; and Woodward, Ingersoll, Fitch, and others, 1979

Inglis, Michael H.

1978 (Sheffer, H. W., Lyon, R. J. P., and Prelat, Alfredo) Coal surface mine reclamation monitoring by satellite (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 427

see Sheffer, Inglis, and others, 1978

Ingram, Tom L.

1977a Bluitt San Andres Associated field, Roosevelt County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 60-61, 1 table, 1 fig.

1977b Southwest Gladiola Devonian field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 100, 1 table

1977c Southwest Gladiola Pennsylvanian field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 101, 1 table

Interagency Oil and Gas Supply Project

1980 Future supply of oil and gas from the Permian Basin of west Texas and southeastern New Mexico: U.S. Geol. Survey, Circ. 828, 57 p.

International Boundary and Water Commission

1976 Flow of the Rio Grande and related data, from Elephant Butte Dam, New Mexico, to the Gulf of Mexico—1976: Internat. Boundary and Water Comm., U.S. and Mexico, Water Bull. 46, 158 p.

Iovenitti, Joe

1977 A reconnaissance study of jasperoid in the Kelly Limestone, Kelly mining district, New Mexico: New Mexico Bureau Mines Mineral Resources, Openfile Rept. 85, 224 p., 2 tables, 86 figs., 1 sheet, 1 appendix; M.S. thesis, New Mexico Inst. Mining and Tech., 224 p.

1977 (and Renault, J. R.) Crystallite size variation in cherts and jasperoids from the Magdalena mining district, Socorro County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 6, p. 735 see Renault and Jovenitti, 1978

Irving, Anthony J.

1979 Kilbourne Hole spinel lherzolites—samples of multiply depleted, enriched and deformed mantle (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 418

see Minear and Irving, 1979; and Schwartz and Irving, 1978

Irwin, James H.

see Henkes and others, 1976

Isaacson, Peter E.

1977 (and Perry, D. G.) Biogeography and morphological conservation of *Tropidoleptus* (Brachiopoda, Orthida) during the Devonian: Jour. Paleontology, v. 51, no. 6, p. 1108–1122, 4 pls., 4 figs.

Izett, G. A.

1978 (Obradovich, J. D., Naeser, C. W., and Gebula, G. T.) K-Ar and fission-track zircon ages of Cerro Toledo Rhyolite tephra units in the Jemez Mountains, north-central New Mexico: U.S. Geol. Survey, Open-file Rept. 78-931, 13 p., 3 figs.; *abs. in* New Mexico Geology, v. 1, no. 1, p. 15

see Bachman and Izett, 1979a,b

Jacka, Alonzo D.

1979 Deposition and entrapment of hydrocarbons in Bell Canyon and Cherry Canyon deep-sea fans of the Delaware Basin, *in* Guadalupian Delaware Mountain Group of west Texas and southeast New Mexico, N. M. Sullivan, editor: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., p. 104-120

1980 (Barone, W. E., Muir, N. J., Foley, D. C., Tully, Tony, and Worthen, J. A.) Cyclic hydrologic and diagenetic events in the San Andres Formation—geologic implications (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 37

1980 (and Thompson, Sam, III) Deposition and diagenesis of Horquilla carbonates, Big Hatchet Peak section, Pedregosa Basin (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 36–37

Jackson, D. H.

see Burton and Jackson, 1979

Jackson, Dalles B.

1976 Schlumberger soundings in the Las Cruces, New Mexico, area: U.S. Geol. Survey, Open-file Rept. 76-231, 170 p., 1 fig.

Jackson, Daniel

1976 York Canyon researches in depth for optimums in mining, preparations: Coal Age, v. 81, no. 5, p. 104–109, 10 figs.

1978 McKinley nears 5-million tpy goal: Coal Age, v. 83, no. 4, p. 106-110, 7 figs.

Jackson, M. L.

see Sridhar and others, 1978

Jackson, Randall E.

see Stone, W. J., and Jackson, 1980

Jackson, Timothy J.

see Green and Jackson, 1976; and Kirk, Huffman, and others, 1978

Jacobs, David C.

1976 Geochemistry of biotite in the Santa Rita and Hanover-Fierro stocks, Central mining district, Grant County, New Mexico: Ph.D. thesis, Univ. Utah, 230 p.; Dissert. Abs. Internat., 1977, v. 37, no. 10, p. 4935-B-4936-B

1979 (and Parry, W. T.) Geochemistry of biotite in the Santa Rita porphyry copper deposit, New Mexico: Econ. Geology, v. 74, no. 4, p. 860-887, 9 tables, 14 figs.

Jacobs, Jim L.

1977 Some recent shallow Pictured Cliffs gas discoveries: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 247-249

1978 Nipp Pictured Cliffs (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 429-430, 3 figs.

1978a (and Fagrelius, Kurt) Potwin Pictured Cliffs (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 462-463, 3 figs.

1978b (and Fagrelius, Kurt) Salt Creek Dakota (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 480-481, 3 figs.

see Fagrelius and Jacobs, 1978

Jacobs, Louis L.

see Butler, R. F., Lindsay, and others, 1976, 1977; Lindsay, Butler, Johnson, and Jacobs, 1979; and Lindsay, Jacobs, and Butler, 1978

Jacobsen, Lynn C.

1980 Sedimentary controls on uranium ore at L-Bar deposits, Laguna district, New Mexico, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 284-291, 9 figs.

Jagnow, David H.

1977 Geologic factors influencing speleogenesis in the Capitan reef complex, New Mexico and Texas: M.S. thesis, Univ. New Mexico, 201 p.

Jagoutz, E.

1980 (Carlson, R. W., and Lugmair, G. W.) Equilibrated Nd-unequilibrated Sr isotopes in mantle xenoliths: Nature, v. 286, no. 5774, p. 708-710

Jahns, Richard H.

1976 (and Ewing, R. C.) The Harding mine, Taos County, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 263-276, 5 tables, 8 figs.; Mineral. Record, 1977, v. 8, no. 2, p. 115-126, 11 figs.

1978 (McMillan, D. K., O'Brient, J. D., and Fisher, D. L.) Geologic section in the Sierra Cuchillo and flanking areas, Sierra and Socorro Counties, New Mexico, *in* Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 130-138, 3 tables, 3 figs.

see Chapin, Jahns, and others, 1978; Fenn and Jahns, 1979; Long and Jahns, 1976; and McMillan and Jahns, 1979

Jaksha, Lawrence H.

1976 Reconnaissance seismology in the Albuquerque Basin (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 12, p. 958

1978 (and Locke, Jerry) Seismicity near Albuquerque, New Mexico, 1976–1977: U.S. Geol. Survey, Open-file Rept. 78–1054, 22 p., 7 figs.

1977 (Locke, Jerry, Thompson, J. B., and Garcia,

Alvin) Albuquerque Basin seismic network: U.S. Geol. Survey, Open-file Rept. 77-865, 25 p., 9 figs., 9 photographs

1978 (Locke, Jerry, Thompson, J. B., and Garcia, Alvin) Reconnaissance seismology near Albuquerque, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-339, 28 p., 5 figs.

see Murdock and Jaksha, 1978, 1980; Sanford, Olsen, and Jaksha, 1979, 1980; Spence, W., Gross, and Jaksha, 1979; and Spence, W., and Jaksha, 1978

Jambon, Albert

1980 (and Shelby, J. E.) Helium diffusion and solubility in obsidians and basaltic glass in the range 200-300° C: Earth and Planet. Sci. Letters, v. 51, no. 1, p. 206-214, 2 tables, 3 figs.

James, David E.

1980a (Padovani, E. R., and Hart, S. R.) Preliminary results on the oxygen isotopic composition of the lower crust, Kilbourne Hole maar, New Mexico: Geophys. Research Letters, v. 7, no. 5, p. 321-324

1980b (Padovani, E. R., and Hart, S. R.) Oxygen isotopic composition of lower crustal xenoliths, Kilbourne Hole, New Mexico: Carnegie Inst. Washington, Year Book, no. 79, p. 455-458; abs. in Am. Geophys. Union (EOS), Trans., v. 61, no. 17, p. 388

James, H. L.

see Robertson, J. M., Budding, and others, 1979; and Clemons, Christiansen, and James, 1980

Jenkins, David A.

1977 Geologic evaluation of the EPM mining claims, East Potrillo Mountains, Doña Ana County, N.M.: M.S. thesis, New Mexico Inst. Mining and Tech., 109 p.

Jenkins, David N.

1977 Geohydrologic investigation of the Turquoise Trail subdivision area, Santa Fe County, New Mexico: Geohydrol. Assoc., Inc., consult. rept. to Lee Wilson and Assoc., 24 p.

see Wilson, Lee, and Jenkins, 1979

Jenkins, John T., Jr.

1979 (and Cunningham, S. B.) Depositional environment of Poison Canyon sandstone in Gulf Mariano Lake mine, *abs. in* Grants uranium region, a symposium: Am. Assoc. Petroleum Geologists, Program, p. 14; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 690

1980 (and Cunningham, S. B.) Depositional environment of Brushy Basin Member, Morrison Formation, in Gulf Mariano Lake mine, McKinley County, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 153–161, 1 table, 9 figs.

Jenkins, P. H.

see Styron and others, 1979

Jensen, Dal H.

see Bivens and others, 1979

Jensen, H. N.

see Wentworth and others, 1979, 1980

Jensen, L.

see Schilt and others, 1978

Jentgen, Russell W.

1977 Pennsylvanian rocks in the San Juan Basin, New Mexico and Colorado: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 129-132, 2 figs.

1977 (and Fassett, J. E.) Sundance-Bisti-Star Lake 1976 drilling, McKinley and San Juan Counties, northwestern New Mexico: U.S. Geol. Survey, Openfile Rept. 77-369, 80 p., 1 table, 25 figs.

see Beach and Jentgen, 1978; Fassett, Black, and others, 1977; Fassett and Jentgen, 1978a-c; Fassett, Jentgen, and others, 1977; Fassett, Molenaar, and others, 1977; and Wilson, R. W., and Jentgen, 1980

Jiracek, George R.

1979a (Ander, M. E., and Holcombe, H. T.) Magnetotelluric soundings of crustal conductive zones in major continental rifts, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 209–222, 5 figs.

1979b (Ander, M. E., and Holcombe, H. T.) Geoelectric soundings into the upper mantle of major continental rift zones (abs.): Am. Geophys. Union

(EOS), Trans., v. 60, no. 18, p. 242

1978 (Ander, M. E., and Reddy, I. K.) Magneto-telluric profiling across the Rio Grande rift COCORP study area in New Mexico, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab, Program and Abs., Rept. LA-7487-C, p. 46-47

1976 (and Smith, C. S.) Deep resistivity investigations at two known geothermal resource areas (KGRAs) in New Mexico—Radium Springs and Lightning Dock, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 71–76, 8 figs.

1977 (Smith, C. S., Ander, M. E., and others) Geophysical studies at Lightning Dock KGRA, Hidalgo County, New Mexico: Geothermal Resources Coun.,

Ann. Mtg., Trans., p. 157-158

1976 (Smith, C. S., and Gerety, M. T.) Deep electrical resistivity soundings in the Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 940-941

see Hohmann and Jiracek, 1979; Parker, M. C., and Jiracek, 1980; and Smith, C. S., and others, 1977

John, Chacko J.

see Kraft and John, 1979

John, Charles P.

1978 (Cheeseman, R. J., Lorenz, J. C., and Millgate, M. L.) Potash ore reserves in the proposed Waste Isolation Pilot Plant area, Eddy County, southeastern New Mexico: U.S. Geol. Survey, Openfile Rept. 78–828, 48 p., 4 tables, 3 figs., 5 pls.

Johnson, Bruce D.

1978 Genetic stratigraphy and provenance of the Baca Formation, New Mexico, and the Eagar Formation, Arizona: M.A. thesis, Univ. Texas (Austin); abs. in Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 526

see Cather and Johnson, 1980

Johnson, Douglas M.

1976 (and Combs, Jim) Microearthquake survey of the Kilbourne Hole KGRA, south-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 942

Johnson, Kenneth S.

1980 Dissolution of salt in the Permian Basin of the

southwestern United States (abs.): 26th Internat. Geol. Congr., Abs., v. 3, p. 1121

1978 (Gonzales, Serge, and Lomenick, T. F.) Regional geologic characteristics important for storage of radioactive waste in salt deposits of United States (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 429

see Gonzales, S., and Johnson, 1980

Johnson, Noye M.

see Butler, R. F., Lindsay, and Johnson, 1979; Butler, R. F., Lindsay, and others, 1976, 1977; Lindsay, Butler, and Johnson, 1979; and Lindsay, Butler, Johnson, and Jacobs, 1979

Johnson, Ross B.

1975 Geologic map of the Rainsville quadrangle, Mora County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1276, scale 1:24,000 [1976] see Mapel and others, 1979

Johnson, W. J.

see Schubert and others, 1980

Johnston, James A.

1978 Microearthquake frequency attenuation of S phases in the Rio Grande rift near Socorro, New Mexico: New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 24, 85 p.

see Sanford, Rinehart, and others, 1977

Johnston, Robert R.

1977 North American drilling activity in 1976: Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 8, p. 1121–1156, 21 tables, 10 figs., 8 appendices

1979 North American drilling activity in 1978: Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 8, p.

1168-1203, 21 tables, 9 figs.

1980 North American drilling activity in 1979: Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 9, p. 1295–1330, 21 tables, 9 figs.

Johnstone, Paul S.

1977 South Corbin Morrow field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 84–85, 1 table, 1 fig.

Jones, Bob

1977 (and McMillan, Colin) The seismograph as an exploration tool in southeastern New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 19–20

Jones, C. L.

1978 Test drilling for potash resources— Waste Isolation Pilot Plant site, Eddy County, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-592, 441 p., 1 fig., 42 sheets; *abs. in* New Mexico Geology, v. 1, no. 1, p. 15

1979 (McIntyre, A. F.) Geologic data for borehole WIPP 27, *in* Basic data report for drillhole WIPP 27: Sandia Lab., Rept. SAND 79-0281, p. 4-18, 3 tables,

2 figs.

see Gonzales, J. L., and Jones, 1979a,b

Jones, D. M.

see Borton and Jones, 1976, 1978

Jones, David A.

1980 (and Kelsey, J. H.) Application of basin analysis to exploration strategy determination (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 27

Jones, David P.

1980 Volcanic geology of the Alegros Mountain area, Catron County, New Mexico: M.S. thesis, Univ. New Mexico, 83 p.

Jones, Richard E.

1976 Taxonomic treatment of dinoflagellates and acritarchs from the Mancos Shale (Upper Cretaceous) of the southwestern United States: Ph.D. thesis, Univ. Arizona, 225 p.

Jones, Ronald L.

see Smith, D. L., and Jones, 1978a,b

Jones, T. W.

see Huffman and Jones, 1978

Jons, Richard D.

1976 (and Stanley, J. R.) Rock Tank (Morrow sandstone) field, Eddy County, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 60, no. 2, p. 326

Jordan, J. B.

1977a La Rica Morrow field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 128–129, 1 table, 1 fig.

1977b Lea Bone Springfield, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 132–133, 1 table, 1 fig.

Ju, F. D.

see Hsu and others, 1978

Jurdy, Donna M.

1978 Seismic imaging of the Precambrian basement using Abo Pass, New Mexico (COCORP) data (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 4, p. 390

1979 Shallow structure of the Rio Grande rift, New Mexico, from COCORP data (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 314

1980 (and Brocher, T. M.) Shallow velocity model of the Rio Grande rift near Socorro, New Mexico: Geology, v. 8, no. 4, p. 185–189

Jurich, David

1980 Raton Mesa coal region report—a study of Upper Cretaceous and early Tertiary geology, coal, and the potential coalbed methane resources of the Raton Basin in Colorado and New Mexico: McLean, Virginia, TRW, Inc., Energy Systems Plan. Div., 150 p., 10 tables, 58 figs., 3 appendices

Jurkowski, G. A.

see Brown, L. D., Miesen, and others, 1980; and Reilinger, Brown, and Jurkowski, 1980

Kaehler, C. A.

see Wilkins and others, 1980

Kagan, R. S.

see Chery and Kagan, 1976

Kaiser Steel Corporation

1976 Underground and surface operations at the York Canyon mine: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 253–255, 8 figs.

1980 Underground and surface operations at the York Canyon mine, *in* Proceedings of the fourth symposium on the geology of Rocky Mountain coal, L. M. Carter, editor: Colorado Geol. Survey, Resource Ser. 10, p. 129-131

Karably, Louis S.

see Bath and others, 1977

Karna, W. W.

1977 Utah International's Navajo mine: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 251-252, 2 tables, 1 fig.

1979 Multiple seam operations at the Navajo mine, New Mexico, *in* Stability in coal mining, C. O. Brawner, editor: San Francisco, Miller Freeman Pub., p. 454-458

Kasten, James A.

1977 Petrology and geochemistry of calc-alkaline andesites within the Albuquerque Basin, Valencia County, New Mexico: M.S. thesis, Univ. New Mexico, 79 p.

see Brookins, Kasten, and Kudo, 1980

Kasten, Terri A.

1980 Geology and metamorphism of Precambrian rocks in the Placitas area, northern Sandia Mountains, Sandoval County, New Mexico: M.S. thesis, Univ. New Mexico, 111 p.

Kauffman, David

1980 (Houghton, A. V., Cortner, J. C., Lee, M. C., Moyers, C. F., Ungan, Aydin, and Vogel, J. E.) Feasibility of a retrofit geothermal heating system for the University of New Mexico campus: Geothermal Resources Council, Trans., v. 4, September, p. 577-579

Kauffman, Erle G.

1977 Illustrated guide to biostratigraphically important Cretaceous macrofossils, Western Interior basin, U.S.A.: Mtn. Geologist, v. 14, p. 225-274

Kaufman, E. L.

1979 (compiler, and Siciliano, C. L. B., editor) Environmental analysis of the Fenton Hill hot dry rock geothermal test site: Los Alamos Sci. Lab., Rept. 7830, 57 p.

1980 (compiler, and Siciliano, C. L. B., editor) Petro-thermal energy versus the environment in New Mexico: Internat. Soc. Geotherm. Engineering and the Geotherm. Jour., v. 5, no. 2, p. 47-52

Kaufman, Sidney

1977 (and Oliver, J. E.) Deep crustal seismic profiling in Hardeman County, Texas, and the Rio Grande rift area of New Mexico (abs.): Geophysics, v. 42, no. 1, p. 159

see Brown, L. D., Allmendinger, and others, 1980; Brown, L. D., Chapin, and others, 1980; Brown, L. D., Kaufman, and Oliver, 1977; Brown, L. D., Krumhansl, Chapin, and others, 1979; Brown, L. D., Krumhansl, Cook, and Kaufman, 1978; Brown, L. D., Krumhansl, Cook, Kaufman, and others, 1978; Long, G. H., and others, 1977; Oliver, J. R., and Kaufman, 1976; Oliver, J. E., Sanford, and others, 1976; and Schilt and others, 1978

Kaufmann, Robert F.

1976 (Eadie, G. G., and Russell, C. R.) Effects of uranium mining and milling on ground water in the Grants mineral belt, New Mexico: Ground Water, v. 14, no. 5, p. 296–308, 9 figs., 3 tables

1977 (Eadie, G. G., and Russell, C. R.) Summary of ground-water quality impacts of uranium mining and milling in the Grants mineral belt, New Mexico (abs.): Sel. Water Resources Abs., v. 10, no. 6, p. 41 see Eadie and Kaufmann, 1977

Keefer, Keith D.

1976 The atomic arrangements of low sanidine and high albite in a cryptoperthitic intergrowth (abs.): Geol. Soc. America, v. 8, no. 6, p. 948-949

1978 (and Brown, G. E.) Crystal structures and compositions and sanidine and high albite in cryptoperthitic intergrowth: Am. Mineralogist, v. 63, no. 11-12, p. 1264-1273

Keetch, C. Wesley

1980 Soil survey of San Juan County, New Mexico—eastern part: U.S. Dept. Agriculture, Soil Conserv. Serv., 173 p.

see Carey and Keetch, 1979

Keil, Klaus

see Berkeley, Callender, and Keil, 1976; Fodor and others, 1976; Lange and Keil, 1976; and Warren, R. G., and others, 1978

Keith, Stanley B.

1978 Paleosubduction geometries inferred from Cretaceous and Tertiary magmatic patterns in southwestern North America: Geology, v. 6, no. 9, p. 516–521, 4 table, maps

1978 (and Wilt, J. C.) Supplemental road log no. 3, Tucson to Lordsburg via Interstate 10: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 112-124, 12 figs.

1978 (Wilt, J. C., Lunch, Daniel, Deal, E. G., Clemons, R. E., and Forrester, J. D.) First day road log from Lordsburg to Douglas via Granite Gap and San Bernadino Valley with an extension to the southern end of the Mule Mountains: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 1-30, 33 figs.

Keizer, Clifford R.

1979 (Grigsby, C. O., and Abbot, Joseph) Waterhot dry rock interactions (abs.): New Mexico Jour. Sci., v. 19, no. 2, p. 54

Keller, G. Randy

1979 Aeromagnetic map of Tortugas Mountains, Doña Ana County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 110, 2 sheets

1979 (and Braile, L. W.) Regional crustal structure of a portion of the western United States—an update (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 397

1979 (Braile, L. W., and Schlue, J. W.) Regional crustal structure of the Rio Grande rift from surface wave dispersion measurements, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 115–126, 7 figs.; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487-C, p. 47-48

1977 (and Covert, L. L.) Tectonic implications of gravity and magnetic studies in west Texas (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 29-30

1978 (Graham, R. G., and Roy, R. F.) Regional geophysics of the southern Rio Grande rift, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 69-70, 1 fig.

1980a (Hills, J. M., and Djeddi, Rabah) An inte-

grated geophysical and geological study of the deep structure and tectonics of the Permian Basin (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 38

1980b (Hills, J. M., and Djeddi, Rabah) A regional geological and geophysical study of the Delaware Basin, New Mexico and west Texas: New Mexico Geol. Soc., Guidebook 31st field conf., Trans-Pecos, p. 105-111, 1 table, 7 figs.

1976 (and Lowrey, W. S.) Regional crustal structure of the Rio Grande rift and adjacent areas (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 951

1979 (Sinno, Y. A., Gish, D. M., and Harden, S. N.) Seismic refraction studies of the southern margins of the Colorado Plateau (abs.): Earthquake Notes, v. 50, no. 4, p. 9-10

see Cordell, Keller, and Hildenbrand, 1978; Olsen, K. H., Keller, and Stewart, 1979; Olsen, K. H., Keller, Stewart, and others, 1977; Orr, C. D., and others, 1979; and Veldhuluis and Keller, 1980

Keller, G. V.

1978 (Grose, L. T., and Crewdson, R. A.) Speculations on nature of geothermal energy in Basin and Range province of western United States: Colorado School Mines, Quart., v. 73, no. 4, p. 71, 5 figs.

1978 (Grose, L. T., and Pickett, G. R.) Research on the physical properties of geothermal reservoir rock—quarterly report, March 1978: Natl. Tech. Inf. Serv., Rept. COO-2908-3, 21 p.

Keller, L. F.

1977 (Heatwole, C. G., and Weber, J.) Preliminary assessment of policy and management options for ground water mining in the Great Plains: Kansas Water Resource Research Inst., Contrib. 204, 169 p.

Kelley, N. Ed

see Marple and others, 1978; and Reynolds, J. F., and others, 1978

Kelley, Richard E.

see King, W. E., and Kelley, 1980

Kelley, Vincent C.

1976 Structure of the Albuquerque Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 594-595

1977 Geology of Albuquerque Basin, New Mexico: New Mexico Bureau Mines Mineral Resources, Mem. 33, 60 p., 9 tables, 24 figs., 2 sheets (geol. map, scale 1:190,000; tectonic map, scale 1:280,000)

1978a Geology of Española Basin, New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 48. scale 1:125.000

1978b Western rift border and the Albuquerque Basin from the Ceja del Rio Puerco crest on I-40, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 150-151, 4 figs.

1978c East rift border and the Albuquerque Basin from I-40 to Albuquerque rest area, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 153, 2 figs.

1978d Features of the rift margin north of the Sandia uplift, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New

Mexico Bureau Mines Mineral Resources, Circ. 163, p. 159-162, 3 figs.

1979a Tectonics, middle Rio Grande rift, New Mexico, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 57–70, 4 figs.

1979b Geomorphology of Española Basin: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 281–288, 4 figs.

1980 Gatuna Formation (late Cenozoic), Pecos Valley, New Mexico, and Trans-Pecos Texas: New Mexico Geol. Soc., Guidebook 31st field conf., Trans-

Pecos, p. 213-217, 1 fig.

1978 (and Kudo, A. M.) Volcanoes and related basalts of Albuquerque Basin, New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 156, 30 p., 16 tables, 32 figs., 2 sheets in pocket

1976 (Woodward, L. A., Kudo, A. M., and Callender, J. F.) Guidebook to Albuquerque Basin of the Rio Grande rift, New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 153, 32 p., 32 figs.

see Callender, Woodward, and Kelley, 1976; Fitz-simmons and Kelley, 1980; and Kudo and others,

Kelly, John M.

1977 Round Tank (Queen) field, Chaves County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 168, 1 table

Kelly, Thomas E.

1977 Geohydrology of the Westwater Canyon Member, Morrison Formation, of the southern San Juan Basin, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 285-290, 3 figs.

1976 (and Hearne, G. A.) The effects of ground-water development on the water supply in the Post Headquarters area, White Sands Missile Range, New Mexico: U.S. Geol. Survey, Open-file Rept. 76-277, 93 p., 6 tables, 18 figs.

1980 (Link, R. L., and Schipper, M. R.) Effects of uranium mining on ground water in Ambrosia Lake area, New Mexico, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 313–319, 2 tables, 9 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 14; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 690

Kelly, W.

1979 Evaluation of the environmental effects of western surface coal mining—v. II, mine inventory: Natl. Tech Inf. Serv., Rept. EPA-600/7-79-034, 197 p.

Kelsey, Jack H.

see Jones, D. A., and Kelsey, 1980

Kendall, Alan C.

1977 (and Broughton, P. L.) Discussion—calcite and aragonite fabrics, Carlsbad Caverns: Jour. Sed. Petrology, v. 47, no. 3, p. 1397–1400, 2 figs.

Kendorski, Francis S.

1978 The cavability of ore deposits: Mining Engineering, v. 30, no. 6, p. 628-631, 3 figs.

Kendrick, Al

1978 (and Dugan, T. A.) Aztec Farmington (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 186–187, 1 fig.

Kennedy, Claude C.

1978a Franciscan Lake Mesaverde (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 304–306, 3 figs.

1978b Rusty Chacra (gas); Rusty Gallup (gas); Rusty Menefee (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 477-479, 2 figs.

1978c Walker Dome Mancos (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 556–557, 3 figs.

Kennedy, V. C.

see Rathbun and Kennedy, 1978

Kennedy, W. J.

1976 (and Cobban, W. A.) Aspects of ammonite biology, biogeography, and biostratigraphy: Paleontological Assoc., Spec. Paper Paleontology, no. 17, 94 p., 11 pls., 5 tables, 24 figs.

Kent, D. V.

1977 An estimate of the duration of the faunal change at the Cretaceous-Tertiary boundary: Geology, v. 5, p. 767-771

Kent, Susan C.

1980 Precambrian geology of the Tusas Mountain area, Rio Arriba County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 151 p., 7 tables, 18 figs., 1 sheet, scale 1:12,000

Kerrick, Derrill M.

see Solomon and Kerrick, 1976

Keyes, Reginald C.

1977 West Sawyer San Andres field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 174–175, 1 table, 1 fig.

Kidd, D. E.

see Gloss and others, 1978

Kietzke, Kenneth K.

1979 (and Kues, B. S.) A large assemblage of the eurypterid *Adelopthalmus* from the Madera Formation (Virgilian) of central New Mexico (abs.): 9th Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 105-106

see Anderson, R. Y., Kietzke, and Rhodes, 1978; and Kues and Kietzke, 1976

Killough, J. E.

1979 (and Foster, H. P., Jr.) Reservoir simulation of the Empire Abo field—the use of pseudos in a multilayered system: Soc. Petroleum Engineers, Jour., v. 19, no. 5, p. 279–288, 2 figs., 1 appendix

Kimbler, Frank S.

1979 (and Haynes, P.) An occurrence of red beryls in the Black Range, New Mexico (abs.): Univ. New Mexico, New Mexico Minerals Symp., p. 10

Kimbro, C. H.

1977a Sand Dune (Atoka) field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 170–171, 1 table, 1 fig.

1977b Sand Dune (Cherry Canyon) field, Eddy County, New Mexico, in The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 172-173, 1 table, 1 fig.

Kinchloe, Dalton

1977 Antelope Ridge field, Lea County, New Mexico, in The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 38-39, 1 table, 1 fig.

1977 (and David, E. K.) Oil Center Blinebry field, Lea County, New Mexico, in The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 142-143, 1 table, 1 fig.

King, Kenneth W.

1977 (and Hays, W. W.) Comparison of seismic attenuation in northern Utah with attenuation in four other regions of the western United States: Seismol. Soc. America, Bull., v. 67, no. 3, p. 781-792, 7 tables, 4 figs.

King, Robert E.

1977 Onshore successes dominate U.S. exploratory efforts: World Oil, v. 184, no. 7, p. 41-45, 3 figs.

King, William E.

1980 (and Kelley, R. E.) Geology and paleontology of Tortugas Mountain, Doña Ana County, New Mexico: New Mexico Geology, v. 2, no. 3, p. 33-35

Kintzinger, P. R.

1976 Geophysical measurements of Fenton Hill (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 349

1978 (and others) Mise-a-la-masse detection and modeling of hydraulic fractures at LASL geothermal site (abs.): Soc. Explor. Geophys., 48th Internat. Mtg., Abs., p. 107

1978 (Reynolds, C. B., West, F. G., and Suhr, G.) Seismic reflection surveys near LASL geothermal site: Natl. Tech. Inf. Serv., Rept. LA-7228-MS, 18 p.; abs. in New Mexico Geology, 1979, v. 1, no. 3, p. 47

1976 (and West, F. G.) Seismic reconnaissance of the Los Alamos Scientific Laboratory's hot dry rock geothermal project area: Los Alamos Sci. Lab., Rept. LA-6435-MS, 19 p.

Kirk, Allan R.

1979 Cretaceous stratigraphic studies (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 41

1978 (Huffman, A. C., Jr.; Zech, R. S.; Robertson, J. F.; and Jackson, T. J.) Review of the history of usage of the Gallup Sandstone and related units, southern and western San Juan Basin, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-1055, 56 p., 25

1976 (and Sullivan, M. W.) Preliminary geologic map of the Dalton Pass quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Open-file Rept. 76–184, scale 1:24,000

1976a (and Zech, R. S.) Preliminary structure contour map of the Dalton Pass quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Open-file Rept. 76-348, scale 1:24,000

1976b (and Zech, R. S.) Preliminary geologic map and structure contour maps of the Oak Spring quadrangle, McKinley County, New Mexico: U.S. Geol.

Survey, Open-file Rept. 76-347, 2 sheets, scale 1:24,000

1976c (and Zech, R. S.) Preliminary geologic and structure contour maps of the Hard Ground Flats quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Open-file Rept. 76-859, 2 sheets, scale 1:24,000

1977 (and Zech, R. S.) The transgressive and regressive relationships between the Upper Cretaceous Mulatto Tongue of the Mancos Shale and the Dalton Sandstone Member of the Crevasse Canyon Formation, Gallup-Pinedale area, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 185-192, 5 figs.

1978 (and Zech, R. S.) Preliminary geologic and structure contour maps of the Big Rock Hill quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-115, 2 sheets, scale 1:24,000

see Huffman, Kirk, and Corken, 1979, 1980; and Peterson, F., and Kirk, 1977

Kirkland, Douglas W.

1980 (and Evans, Robert) Origin of castiles on the Gypsum Plain of Texas and New Mexico: New Mexico Geol. Soc., Guidebook 31st field conf., Trans-Pecos, p. 173-178, 4 figs.

see Anderson, R. Y., and Kirkland, 1979, 1980

Kirschner, Carolyn E.

1979 Structural evolution of a Precambrian tidal flat, Taos County, New Mexico: M.S. thesis, Univ. Texas (Austin)

Klameth, L. C.

see Barrett and Kirschner, 1979 see Nelson, R. E., and others, 1978

Kleeman, W. T.

1977 (and Savage, V. H.) Geothermal resources as an alternative for an area with an energy problemthe Rio Grande region: Geothermal Resources Coun., Ann. Mtg., Proc., p. 169-171

Kluth, Charles F.

1980 (and Coney, P. J.) Plate tectonics of the ancestral Rocky Mountains (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 277

Knauf, James A.

1977 Power Grayburg field, Eddy County, New Mexico, in The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 152-153, 1 table, 1 fig.

Knepper, Daniel H., Jr.

1978 Analysis of linear features, Rio Grande rift zone, central New Mexico, abs. in International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 48-

see Zech and Knepper, 1979

Koch, F. G.

see Eichelberger and Koch, 1979

Kocurek, Gary

1977 Petrology and environments of deposition of the Percha Formation, Upper Devonian, southwestern New Mexico: M.S. thesis, Univ. Houston

1977 (and Chafetz, H. S.) Environment of deposition of the Percha Shale, southwestern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 30-31

see Chaiffetz and others, 1977

Kolstad, C. D.

1978 (and McGetchin, T. R.) Thermal evolution models for the Valles caldera with reference to a hot-dry-rock geothermal experiment: Jour. Volcanology and Geothermal Research, v. 3, no. 1/2, p. 197–218, 3 tables, 12 figs.

1976 (McGetchin, T. R., and Laughlin, A. W.) Pluton thermal evolution modeling and observations in GT-2 (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 350

Kondrat'yeva, T. I.

1979 (and Gorshkov, S. P.) Basseyn Kolorado stanovitsya oblast'yu vnutrennego stoka (The Colorado basin becoming a region of interior drainage): Priroda, no. 10, p. 76–81

Kosocki, Bruce A.

1978 (Robbins, S. L., and Schmoker, J. W.) Principal facts for borehole gravity stations in stratigraphic test well ERDA no. 9, Eddy County, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-696, 13 p., 3 figs.

Kostura, John R.

see Owen, Walters, Kostura, and Grant, 1976

Kottlowski, Frank E.

1976 Sedimentary fill of the Rio Grande structural depression in New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 596

1977 New Mexico geology and petroleum potential: Interstate Oil Compact Comm., Comm. Bull., v. 19, no. 2, p. 26–30, 2 figs.

1979a Geologic New Mexico: New Mexico Geology, v. 1, no. 1, p. 2

1979b Bottomless Lakes—New Mexico State Park series: New Mexico Geology, v. 1, no. 4, p. 57-58, 1 fig.

1980 Pancho Villa—New Mexico State Park series: New Mexico Geology, v. 2, no. 3, p. 45-46, 4 figs.

1976 (Beaumont, E. C., and Shomaker, J. W.) New Mexico coal seams, *in* 1976 Keystone coal industry manual: New York, McGraw-Hill, Inc., p. 602-610

1977 (Beaumont, E. C., and Shomaker, J. W.) Coal seams in New Mexico, *in* 1977 Keystone coal industry manual: New York, McGraw-Hill, Inc., p. 633-641

1977 (Seager, W. R., LeMone, D. V., and Simpson, R. D.) Abo-Hueco lithostratigraphic relationships of south-central New Mexico and far west Texas (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 32, 57

1976 (and staff) Annual report for the fiscal year July 1, 1975 to June 30, 1976: New Mexico Bureau Mines Mineral Resources, 47 p., 5 tables, 10 figs.

1977 (and staff) Annual report for the fiscal year July 1, 1976 to June 30, 1977: New Mexico Bureau Mines Mineral Resources, 87 p., 8 tables, 20 figs., 2 pls.

1979 (and staff) Annual report for the fiscal year July 1, 1977 to June 30, 1978: New Mexico Bureau Mines Mineral Resources, 61 p., 3 tables, 9 figs., 1 pl.

1980 (and staff) Annual report for the fiscal year July 1, 1978 to June 30, 1979: New Mexico Bureau Mines Mineral Resources, 80 p., 5 tables, 16 figs., 2 pls.

1979 (and Steensma, R. S.) Barite-fluorite-lead

mines of Hansonburg mining district in central New Mexico: New Mexico Geology, v. 1, no. 2, p. 17-20, 32. 1 table, 2 figs.

1980 (Tabet, D. E., and Frost, S. J.) New Mexico coal seams, *in* 1979 Keystone coal industry manual: New York, McGraw-Hill, Inc., p. 524-533

1979 (and Thompson, Sam, III) Energy resources of New Mexico (abs.): New Mexico Geology, v. 1, no. 2 n 32

1980 (and Thompson, Sam, III) Estimate of energy resources of New Mexico 1979: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1978-79, p. 58-67, 2 tables, 2 figs.

see Anderson, O. J., Hatton, and Kottlowski, 1977; Armstrong, A. K., Kottlowski, and others, 1980; Arnold, Foster, and others, 1976; Eveleth and Kottlowski, 1980; Greenwood and others, 1977; Hawley, Chapin, Chamberlin, and others, 1978; Hawley and Kottlowski, 1978; Rautman and Kottlowski, 1977; Robertson, J. M., Budding, and others, 1979; Seager, Kottlowski, and Hawley, 1976; Siemers, W. T., Austin, and Kottlowski, 1980; and Tabet, Frost, and Kottlowski, 1977, 1979

Kozusko, R. G.

1980 (and Saucier, A. E.) The Bernabe Montaño uranium deposit, Sandoval County, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 262-268, 8 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 14

Kraft, John C.

1979 (and John, C. J.) Lateral and vertical facies relations of transgressive barrier: Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 12, p. 2145–2163, 1 table, 12 figs.

Kraxberger, V. E.

see Alminas, Watts, and others, 1978a-d; and Watts, Alminas, and Kraxberger, 1978

Krieg, R. D.

1980 (and Hunter, T. O.) Geomechanics activities conducted at Sandia National Laboratories in support of the Waste Isolation Pilot Plant: Univ. California, Lawrence Berkeley Lab., Energy and Environ. Div., Rept. 11204, p. 81–88

Krier, Jonathon D.

1980 Geology of the southern part of the Gila Primitive Area, Grant County, New Mexico: M.S. thesis, Univ. New Mexico, 112 p.

Krishtalka, L.

1976a Early Tertiary Adapisoricidae and Erinaceidae (Mammalia, Insectivora) of North America: Carnegie Museum Natural History, Bull., v. 1, p. 1-40

1976b North American Nyctitheriidae (Mammalia, Insectivora): Carnegie Museum, Annals, v. 46, art. 2, p. 7–28

Krohn, Douglas H.

1976 Gravity survey of the Mogollon Plateau volcanic province, southwestern New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 113-116, 2 figs.

Kron, A.

see Goff and Kron, 1980

Krueger, Harold W.

see Brookins, Register, and Krueger, 1980

Krumhansl, Peter A. see Brown, L. D., Krumhansl, Chapin, and others. 1979; Brown, L. D., Krumhansl, Cook, and Kaufman, 1978; Brown, L. D., Krumhansl, Cook, Kaufman, and others, 1978; and Schilt and others, 1978

Kudo, Albert M.

1976a A review of the volcanic history and stratigraphy of northeastern New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 109-110

1976b Volcanism within the Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 597

1977 (Kelley, V. C., Damon, P. E., and Shafiqullah, M.) K-Ar ages of basalt flows at Canjilon Hill, Isleta volcano, and the Cat Hills volcanic field. Albuquerque-Belen Basin, central New Mexico: Isochron/West, no. 18, p. 15-16

see Aoki and Kudo, 1976; Aubele and others, 1976; Brookins, Kasten, and Kudo, 1980; Brookins, Warren, and Kudo, 1980; Enz and others, 1979; Kelley, V. C., and Kudo, 1978; Kelley, V. C., Woodward, and others, 1976; Warren, R. G., and others, 1978; and Zimmerman and Kudo, 1978, 1979a, b

Kues, Barry S.

1980 A fossil crab from the Mancos Shale (Upper Cretaceous) of New Mexico: Jour. Paleontology, v. 54, no. 4, p. 862-864

1977 (Froehlich, J. W., Schiebout, J. A., and Lucas, S. G.) Paleontological survey, resources assessment, and mitigation plan for the Bisti-Star Lake area, northwestern New Mexico: Albuquerque, U.S. Bureau Land Management, rept., 399 p.

1976 (and Kietzke, K. K.) Paleontology and stratigraphy of the Red Tanks Member, Madera Formation (Pennsylvanian) near Lucero Mesa, New Mexico, in Tectonics and mineral resources of southwestern North America., L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 102-108, 3 figs.

1980 (Lehman, T., and Rigby, J. K., Jr.) The teeth of Alamosaurus sanjuanesis, a Late Cretaceous sauropod: Jour. Paleontology, v. 54, no. 4, p. 864-

1979 (and Lucas, S. G.) Summary of the paleontology of the Santa Fe Group (Mio-Pliocene), northcentral New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 237-241, 1 table, 1

see DuChene and others, 1977; Ewing and Kues, 1976; Kietzke and Kues, 1979; and Lucas and Kues, 1979

Kues, Georgiana

see Turner, W. M., and Kues, 1978

Kukalova-Peck, Jarmila

1976 (and Peck, S. B.) Adult and immature Calvertiellidae (Insecta: Palaeodictyoptera) from the upper Paleozoic of New Mexico and Czechoslovakia: Psyche, v. 83, no. 1, p. 79-93, 8 figs.

Kunath, C. E.

1978a (editor) The caves of McKittrick Hill, Eddy

County, New Mexico-history and results of field work, 1965-1976: Texas Speleological Soc., 83 p.

1978b Endless Cave, in The caves of McKittrick Hill, Eddy County, New Mexico-history and results of field work, 1965-1976: Texas Speleological Soc., p. 21-30

see Byrd and Kunath, 1978; and Fieseler and Kunath, 1978a,b

Kunkler, J. L.

1980 Evaluation of the Malaga Bend salinity alleviation project, Eddy County, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-1111, 37 p. [1981]

1977 (and Scott, A. G.) Plan for a study of part of the Jicarilla Apache Indian Reservation: U.S. Geol. Survey, Open-file Rept. 77-756, 37 p., 2 figs.

see Scott, A. G., and Kunkler, 1976

Kurtz, Dennis D.

1978a Sedimentology and stratigraphy of the Triassic Chinle Formation, eastern San Juan Basin, New Mexico: M.S. thesis, Rice Univ., 177 p.

1978b Upper Triassic Chinle Formation-northcentral New Mexico-effects of waning influence of the southern ancestral Rocky Mountains on sedimentation (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 5, p. 219

1980 (and Anderson, J. B.) Depositional environments and paleocurrents of Chinle Formation (Triassic), eastern San Juan Basin, New Mexico: New Mexico Geology, v. 2, no. 2, p. 22-27, 1 table, 6 figs.

LaDelfe, Carol M.

see Maassen, LaDelfe, and others, 1980

LaFevers, J. R.

see Imhoff and others, 1976

LaFon, Neal

1980 Sedimentology and depositional environments of the Semilla Sandstone Member (Mancos Shale, Upper Cretaceous), eastern side of the San Juan Basin, New Mexico: M.S. thesis, Univ. Kansas see Ratkevich and LaFon, 1978

LaFrance, Leo

see Gunaji, Thode, and others, 1978

Lamb, N. Raymond

1977 Grama Ridge Morrow field, Lea County, New Mexico, in The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 108-109, 1 table, 1 fig.

Lambert, P. Wayne

1976 Road log describing the Quaternary geology of the Albuquerque area, New Mexico: U.S. Geol. Survey, Open-file Rept. 76-95, 20 p., 1 fig.

1978a Rio Grande bridge (I-25) to Bernalillo, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 144-158, 8 figs.

1978b Upper Santa Fe stratigraphy and geomorphic features of the Llano de Albuquerque, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 151

see Hawley, Chapin, Chamberlin, and others, 1978; and Wilcox and others, 1980

Lambert, Steven J.

1976 Stable isotope studies of some active hydrothermal systems: Ph.D. thesis, California Inst. Tech.,

387 p.: Dissert. Abs. Internat., v. 36, no. 9, p. 4351-B-4352-B

1978 Geochemistry of Delaware Basin ground waters, in Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 32–38, 5 tables

1979a Justification, in Basic data report for drillhole WIPP 25: Sandia Lab., Rept. SAND79-0279,

appendix A, p. A1-A13, 1 fig.

1979b Justification, in Basic data report for drill-hole WIPP 27: Sandia Lab., Rept. SAND79-0281, appendix A, p. A1-A13

1979c Justification, in Basic data report for drillhole WIPP 29: Sandia Lab., Rept. SAND79-0283,

appendix A, p. A1-A13, 1 fig.

1980 Shallow-seated dissolution of bedded evaporites in the northern Delaware Basin (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 40

1980 (and Epstein, Samuel) Stable isotope investigations of an active geothermal system in Valles caldera, Jemez Mountains, New Mexico: Jour. Volcan. and Geotherm. Research, v. 8, no. 1, p. 111-129

1977 (and Mercer, J. W.) Hydrologic investigations of the Los Medaños area, southeastern New Mexico: Sandia Lab., Pub. SAND77-1401, 56 p.

see Barr and others, 1979; and Brookins, Register, and others, 1978

Lampert, Leon M.

1977a Queen sand in the Double L and Sulimar fields, Chaves County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 29–37, 1 table, 7 figs.

1977b Double L-Queen Associated field, Chaves County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 91, 1 table

1977c Sulimar Queen field, Chaves County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 191, 1 table

Landa, Edward

1980 Isolation of uranium mill tailings and their component radionuclides from the biosphere—some earth science perspectives: U.S. Geol. Survey, Circ. 814, 32 p., 2 tables, 2 figs.

Landis, Edwin R.

see Hook, Cobban, and Landis, 1980

Landis, Gary P.

see Brookins, Chakoumakos, and others, 1979

Landwehr, J. Maclunas

1978 (Matalas, N. C., and Wallis, J. R.) Some comparisons of flood statistics in real and log space: Water Resources Research, v. 14, no. 5, p. 902–920, 29 tables, 8 figs.

Lane, H. Richard

1979 (and De Keyser, T. L.) Mississippian carbonate shelf along the eastern flank of the Transcontinental Arch, Illinois to New Mexico (abs.): 9th Internat. Cong. Carboniferous Stratigraphy and Geology, Abs., p. 114

Lange, David E.

1980 Stratigraphic implications of uranium de-

posits, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 36-39, 5 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 14-15; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 690-691

1976 (and Keil, Klaus) Meteorites of northeastern New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 293–299, 2 tables, 7 figs.

Langhorst, G. J.

1980 Preliminary study of the potential environmental concerns associated with surface waters and geothermal development of the Valles caldera: Los Alamos Natl. Lab., Rept. 8398-MS, 13 p.

Lansford, Robert R.

1980 (Chaturvedi, L. N.; Abernathy, G. H.; Creel, B. J.; Nelson, D. C.; Cotter, D. J.; Gollehon, N. R.; Clevenger, T. S.; and Patterson, R. C.) Utilization of geothermal energy for agribusiness development in southwestern New Mexico: Geothermal Resources Coun., Trans., v. 4, September, p. 581-584, 1 table, 1 fig.

1976a (and others) Irrigated cropland acreage and source of water used for irrigation in New Mexico by county: New Mexico State Univ., Agric. Exp. Station, Research Rept. 324, 39 p.

1976b (and others) A preliminary economic study for the establishment of an energy-water complex in the Tularosa Basin— executive summary: New Mexico State Univ, Water Resources Research Inst., Rept. 067, 10 p.

1976c (and others) A preliminary economic feasibility study for the establishment of an energy-water complex in the Tularosa Basin: New Mexico State Univ., Water Resources Research Inst., Rept. 068, 231 p.

LaPoint, Dennis J.

1976 A comparison of selected sandstone copper deposits in New Mexico: Oklahoma Geol. Survey, Circ. 77, p. 80-96

1977 The migration and precipitation of metals in waters associated with sandstone copper deposits (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 6, p. 742

1979 Geology, geochemistry, and petrology of sandstone copper deposits in New Mexico: Ph.D. thesis, Univ. Colorado (Boulder), 353 p.; Dissert. Abs. Internat., 1980, v. 40, no. 8, p. 3629-B

1977 (and Christensen, D. K.) Evidence for source areas and depositional environments of Santa Rosa Sandstone (late Triassic) of east-central New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 8, p. 1382

Laquer, F.

see Popp and Laquer, 1980

Larkin, Robert P.

1980 (Grogger, P. K., and Peters, G. L.) The southern Rocky Mountains: Kendall/Hunt Publ. Co., geol. field guide, 166 p.

Laroche, T. Matthew

1980 Geology of the Gallinas Peak area, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 128, 154 p., 1

table, 17 figs., appendix, 2 sheets, scale 1:24,000; M.S. thesis, New Mexico Inst. Mining and Tech.

Laskin, J. P.

see Bodine and Laskin, 1979

Laughlin, A. William

1976 (Brookins, D. G., and Damon, P. E.) Late-Cenozoic basaltic volcanism along the Jemez zone of New Mexico and Arizona (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 598

1979 (Brookins, D. G., Damon, P. E., and Shafiqullah, M.) Late-Cenozoic volcanism of the central Jemez zone, Arizona-New Mexico: Isochron/West,

no. 25, p. 5-8, 1 table

1976 (and Eddy, A. C.) Petrography and geochemistry of Precambrian core samples from GT-2 and EE-1 (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 350

1976 (and West, F. G.) The Zuni Mountains, New Mexico, as a potential dry hot rock geothermal energy site: Los Alamos Sci. Lab., Rept. 6197, 13 p.

1977 (and West, F. G.) Hot, dry rock (HDR) geothermal energy—exploitation and exploration (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 5, p. 807-808

1977 (West, F. G., Pettitt, R. A., Eddy, A. C., Balagna, J. P., and Charles, R. W.) Status of the Los Alamos experiment to extract geothermal energy from dry hot rock (abs.): Geology, v. 5, no. 4, p. 237-240

see Aiken, Laughlin, and West, 1977, 1978; Ander, Goss, and others, 1980; Ander, Laughlin, and others, 1980; Balagna, West, and others, 1977; Brookins and Laughlin, 1976a, b, 1977; Charles, West, and others, 1977; Kolstad, McGetchen, and Laughlin, 1976; and West and Laughlin, 1976

Laurie, Karen P.

1976 History of Vermejo Park: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 87–92, 7 figs.

1980 History of Vermejo Park, in Proceedings of the fourth symposium on the geology of Rocky Mountain coal, L. M. Carter, editor: Colorado Geol. Survey, Resource Ser. 10, p. 123–128

Lauth, Robert E.

1978a Stoney Butte Dakota (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 503–504, 3 figs.

1978b Stoney Butte Mesaverde (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 505-506, 3 figs.

1978c Table Mesa Dakota (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 507-509, 4 figs.

Lavery, N. G.

1977 (and Trauger, F. D.) Addendum to geohydrology of the upper Pipeline Draw area, Grant County, New Mexico: Exxon Corp., rept., 13 p.

see Moore, S. C., and Lavery, 1980

Lawler, George C.

see Ash, Dean, and others, 1978; and Weber, D. J., and Lawler, 1978

Lawrence, John R.

1979 Geology of the Cerro del Grant area, Rio

Arriba County, north-central New Mexico: M.S. thesis, Univ. New Mexico, 131 p.

Lawton, R. G.

1979 (and Horton, E. H.) Data acquisition for the hot dry rock geothermal energy project: Natl. Tech. Inf. Serv., Rept. LA-UR-79-812, 7 p.; abs. in New Mexico Geology, 1980, v. 2, no. 1, p. 13 see Murphy, H. D., and others, 1978

Leach, David L.

1976 (and Puchlik, K. P.) Geochemical reconnaissance for uranium in arid regions of the western United States (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 599-600

Lease, L. W.

1979 Geologic report on East Chaco Canyon drilling project, McKinley and San Juan Counties: U.S. Dept. Energy, Rept. GJBX-98-80, 62 p.

Lee, M. C.

see Kauffman and others, 1980

Lee, Moon J.

1976a Geochemistry of the sedimentary uranium deposits of the Grants mineral belt, southern San Juan Basin, New Mexico: Ph.D. thesis, Univ. New Mexico, 241 p., 22 tables, 32 figs.

1976b Scanning electron microscopic study of the authigenic and detrital minerals of the uranium deposits of the Morrison Formation, Grants mineral belt, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 600

1978 (and Brookins, D. G.) Rubidium-strontium minimum ages of sedimentation, uranium mineralization, and provenance, Morrison Formation (Upper Jurassic), Grants mineral belt, New Mexico: Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 9, p. 1673–1683, 3 tables, 12 figs.

1980 (and Brookins, D. G.) Reply to discussion of "Rubidium-strontium minimum ages of sedimentation, uranium mineralization, and provenance, Morrison Formation (Upper Jurassic), Grants mineral belt, New Mexico": Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 10, p. 1719

1977 (Brookins, D. G., and Shafiqullah, M.) K-Ar ages for clay-size and silt-size fractions of uranium ore from the Grants mineral belt, New Mexico: Iso-

chron/West, no. 18, p. 17-19

see Brookins, Della Valle, and Lee, 1977, 1978a,b; Brookins, Lee, and Riese, 1977; Brookins, Lee, and Shafiqullah, 1977; Brookins, Riese, and Lee, 1977; Riese, W. C., Brookins, and Lee, 1978, 1979; Riese, W. C., Lee, and Brookins, 1977; and Riese, W. C., Lee, and others, 1979

Lee, Myung W.

see Ryder and others, 1980

Lee, V. J.

see Apt and Lee, 1976

Leeman, W. P.

1979 A tectonic interpretation of strontium isotopic variations in late Cenozoic lavas—western U.S. (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 464

LeFebre, Vernon G.

1976 Oxygen consumption in a confined limestone aquifer (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 249

1977 Chemical dynamics of a confined limestone

aquifer (Roswell Basin): New Mexico State Univ., Water Resources Research Inst., Rept. 084, 253 p.

Lehman, T.

see Kues, Lehman, and Rigby, 1980

Leininger, R. K.

see Austin, G. S., and Leininger, 1976

LeMay, William J.

1977a Cemetery Morrow gas field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 78–79, 1 table, 1 fig.

1977b Siete San Andres field, Chaves County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 184–185, 1 table, 1 fig.

LeMone, David V.

1977 Stratigraphic relationships of the Ordovician sediments in the El Paso border region (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 57-58

1976 (and Lovejoy, E. M. P.) Symposium on the stratigraphy and structure of the Franklin Mountains: El Paso Geol. Soc., 250 p.

1977 (and others) Applicant's paleontological assessment and continuing studies for the proposed Star Lake coal mine: Chaco Energy Co., rept., 152 p.

1979 (and others) Paleontological clearance assessment and evaluation report, state lands, Bisti Project: Western Coal Co., rept., 69 p.

1977 (and Simpson, R. D.) Paleoecological interpretations of Wolfcamp fossil communities in south-central New Mexico and far west Texas (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 58

1978 (Simpson, R. D., and Thompson, Sam, III) Correlation of the Concha Limestone (Leonardian) in Hidalgo County, New Mexico (abs.): New Mexico Jour. Sci., v. 18, no. 2, p. 34–35

see Kottlowski, Seager, and others, 1977; Nye and LeMone, 1978; Simpson, R. D., and LeMone, 1980; Simpson, R. D., LeMone, and Thompson, 1978a,b; Thompson, S., LeMone, and Simpson, 1977; Weise and LeMone, 1980; and Wolberg and LeMone, 1980

Lemons, J. F.

see Weisner and others, 1980

Lent, Judy

1980a San Juan Basin report—a study of Upper Cretaceous geology, coal, and coalbed methane resources of the San Juan Basin, in Colorado and New Mexico: Denver, TRW Energy Systems Group, 115 p., 12 tables, 40 figs., 4 appendices

1980b San Juan Basin report—Early Tertiary geology, coal, and the potential for methane recovery from coal beds in Colorado and New Mexico: U.S. Dept. Energy, Rept. DE-AC21-78M, 131 p., 12 tables, 40 figs., 4 appendices, 12 sheets in pockets

Leonard, A. Byron

1977 Three new pulmonate gastropods from the Tertiary of New Mexico: Nautilus, v. 91, no. 4, p. 143-145

1978 (and Frye, J. C.) Paleontology of Ogallala Formation, northeastern New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 161, 21 p., 2 pls., 3 figs.

see Frye and others, 1978

Leonard, R. C.

1977a Avalon Penn (Cisco-Canyon) field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 46, 1 table

1977b Avalon Penn (Morrow) field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 47–48, 1 table, 1 fig.

1977c Avalon Penn (Strawn) field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 49-50, 1 table, 1 fig.

Leopold, Luna B.

1976 Reversal of erosion cycle and climatic change: Quaternary Research, v. 6, no. 4, p. 557-562

1978 El Asunto del Arroyo, *in* Geomorphology—present problems and future prospects, C. Embleton, editor: London, Oxford Univ. Press, p. 25–39

Lessard, Robert H.

1976 First day road log from Las Vegas to Raton via Montezuma, Sapello, La Cueva (and vicinity), Ocate, Wagon Mound, and Springer: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 1-23, 24 figs.

1976 (and Bejnar, Waldemere) Geology of the Las Vegas area: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 103–108

see Bejnar, C. R., and Lessard, 1976

Lettemmaier, D. P.

see Moss and others, 1978

Leventhal, Joel S.

1979 Carbon-13/carbon-12 isotope fractionation of organic matter associated with uranium ores induced by alpha irradiation (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 47-48

1980 Organic geochemistry and uranium in Grants mineral belt, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 75–85, 4 tables, 10 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 15; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 691

1978 (and Threlkeld, C. N.) Carbon-13/carbon-12 isotope fractionation of organic matter associated with uranium ores induced by alpha irradiation: Science, v. 202, no. 27, p. 430-431, 1 table, 2 figs.

Levinson, A. R.

1979 Depositional environments of the shales and coals of the Dakota Sandstone and adjacent units of the San Juan Basin, Colorado and New Mexico: M.S. thesis, Bowling Green State Univ., 125 p.

Levitte, D.

1980 (and Gambill, D. T.) Geothermal potential of west-central New Mexico from geochemical and thermal gradient data: Los Alamos Natl. Lab., Rept. 8608-MS, 102 p.

Levy, P. W.

see Hayslip, Fuller, and others, 1979, 1980

Levy, Susan

see Smith, D. L., and Levy, 1976

Lewis, D. M.

see Nozaki, DeMaster, Benninger, and others,

1977; and Nozaki, DeMaster, Lewis, and Turekian, 1978

Li, Ta M.

1978 (and Wiebmer, J. D.) Uranium mining in the U.S.—producers rush to meet energy needs: Mining Engineering, v. 30, no. 10, p. 1405–1413, 10 tables, 6 figs.

Liebes, E.

see Shive and others, 1979

Lindley, Julia I.

1979 Chemical changes associated with the propylitic alteration of two ash-flow tuffs, Datil-Mogollon volcanic field, New Mexico: M.S. thesis, Univ. North Carolina

1980 (Ragland, P. C., and Chapin, C. E.) Chemical changes associated with the propylitic alteration of two ash-flow tuffs, Datil-Mogollon volcanic field, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Southwest Sec., Ann. Mtg., Program, p. 42-43

Lindquist, W. F.

1980 The exploration of the Ortiz gold deposit, New Mexico—geology and mineralization: Colorado Mining Assoc., mining yearbook, p. 106-112

Lindsay, Everett H.

1979 (Butler, R. F., and Johnson, N. M.) Reply on "Biostratigraphy and magnetostratigraphy of Paleocene terrestrial deposits, San Juan Basin, New Mexico": Geology, v. 7, no. 7, p. 326-327

1979 (Butler, R. F., Johnson, N. M., and Jacobs, L. L.) Reply on "Biostratigraphy and magnetostratigraphy of Paleocene terrestrial deposits, San Juan Basin, New Mexico": Geology, v. 7, p. 68-69

1978 (Jacobs, L. L., and Butler, R. F.) Biostratigraphy and magnetostratigraphy of Paleocene terrestrial deposits, San Juan Basin, New Mexico: Geology, v. 6, no. 7, p. 425-429, 3 figs.

see Butler, R. F., Lindsay, and Johnson, 1979; and Butler, R. F., Lindsay, and others, 1976, 1977

Lindslev, K.

see Lindsley, P., and Lindsley, 1978

Lindsley, P.

1978 (and Lindsley, K.) Dry Cave, in The caves of McKittrick Hill, Eddy County, New Mexico—history and results of field work, 1965–1976, C. E. Kunath, editor: Texas Speleological Soc., p. 36-46

Link, Regina L.

see Kelley, Link, and Schipper, 1979, 1980 Lipman, Peter W.

1978 Antonito, Colorado, to Rio Grande Gorge, New Mexico, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 36-41, 7 figs.

1979 Structurally complex roots of a caldera near Questa, New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 72

1979 (and Mehnert, H. H.) The Taos Plateau volcanic field, northern Rio Grande rift, New Mexico, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 289–311, 4 tables, 4 figs.; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487-C, p. 53-54

1980 (and Mehnert, H. H.) Potassium-argon ages

from the Mount Taylor volcanic field, New Mexico: U.S. Geol. Survey, Prof. Paper 1124-B, p. B1-B8

1979 (Pallister, J. S., and Sargent, K. A.) Geologic map of the Mount Taylor quadrangle, Valencia County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1523, scale 1:24,000

see Dungan and others, 1978; and Hawley, Burroughs, and others, 1978

Lisenbee, Alvis L.

1976a Shale diapirism and the structural development of the Galisteo syncline, Santa Fe County, New Mexico, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 88-94, 1 table, 8 figs.

1976b Shale diapirism in Galisteo syncline, Santa Fe County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 601

1979 (Woodward, L. A., and Connolly, J. R.) Tijeras-Cañoncito fault system—a major zone of recurrent movement in north-central New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 89-99, 9 figs.

see Woodward, Ingersoll, Fitch, and others, 1979

Lisowski, M.

see Savage, J. C., Lisowski, and Prescott, 1979; and Savage, J. C., Lisowski, and others, 1980

Little, Curtis J.

see Matheny, M. L., and Little, 1978a-c

Livaccari, Richard F.

1979 Late Cenozoic tectonic evolution of the western United States: Geology, v. 7, no. 2, p. 72-75, 6 figs.

Livingston, Bowman A.

1980 Geology and development of Marquez, New Mexico, uranium deposit, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 252-261, 3 tables, 8 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 15; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 691

Locke, Jerry

see Jaksha and Locke, 1978; and Jaksha, Locke, and others, 1977, 1978

Lockwood, D. L.

1978 A supply-demand forecast through the year 2000: Coal Mining and Processing, v. 15, no. 8, p. 55-58, 86, 5 tables, 6 figs.

Loeber, Kenneth N.

1976 Cenozoic volcanic geology of the Truth or Consequences-Engle area, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 601-602

see Aubele and others, 1976; and Sanguinetti and Loeber, 1976

Loehr, Cynthia

1979 Mineralogical and geochemical effects of basaltic dike intrusion into evaporite sequences near Carlsbad, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 69 p., 11 tables, 23 figs., 57 appendices

Lofgren, Gary E.

1979 Anatomy of an intersertal texture (abs.): Am.

Geophys. Union (EOS), Trans., v. 60, no. 18, p. 420

Lohmann, Kvger C.

1978 Closed system diagenesis of high magnesium calcite and aragonite cement (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 446

1976 (and Meyers, W. J.) Microdolomite inclusions in cloudy prismatic calcites—a proposed criterion for former high magnesium calcites (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 983–984

1977 (and Meyers, W. J.) Microdolomite inclusions in cloudy prismatic calcites—a proposed criterion for former high-magnesium calcites: Jour. Sed. Petrology, v. 47, no. 3, p. 1078–1088, 1 table, 6 figs.

see Meyers, W. J., and Lohmann, 1978, 1980; and Oglesby and others, 1979

Lohse, Richard L.

1980 Geothermal assessment of Doña Ana County, New Mexico: Geothermal Resources Coun., Trans., v. 4, September, p. 217–220, 5 figs.

1980a (Morgan, Paul, and Swanberg, C. A.) A heat flow study of Doña Ana County, southern Rio Grande rift, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 17, p. 363-364

1980b (Morgan, Paul, and Swanberg, C. A.) Heat flow maps of New Mexico—pt. 2, preliminary heat flow study and geothermal assessment of Doña Ana County, New Mexico: Natl. Tech. Inf. Serv., Rept. DOE/1D/01717-1, p. 5.1-5.36

see Morgan, P., Swanberg, and Lohse, 1980

Lokke, Donald H.

see Tyrrell and others, 1978

Lomenick, Thomas F.

see Johnson, K. S., and others, 1978

Long, Carl L.

see Hoover and others, 1978

Long, G. H.

1977 (Brown, L. D., Kaufman, Sidney, Oliver, J. E., and Schilt, F. S.) Structure of the deep crust by seismic reflection profiling—the COCORP project (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 6, p. 497

see Brown, L. D., Kaufman, Long, and others, 1979; and Schilt and others, 1978

Long, Leon E.

see Barker, D. S., Long, and others, 1977

Long, Philip E.

1976 Precambrian granitic rocks of the Dixon-Peñasco area, northern New Mexico—a study of contrasts: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 71, 556 p., 7 tables, 152 figs., 4 pls., 6 appendices; Ph.D. thesis, Stanford Univ., 1977, 586 p.; Dissert. Abs. Internat., 1977, v. 37, no. 12, pt. 1, p. 6023-B

1976 (and Jahns, R. H.) Petrochemistry of Precambrian aplites and host granites of the Dixon-Peñasco area, northern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 984–985

1979 (and Luth, W. C.) Petrogenesis of microcline megacrysts from Precambrian granitic rocks of the Dixon-Peñasco area, northern New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 145-153, 2 tables, 12 figs.

Lopez, David A.

1979 (and Bornhorst, T. J.) Geologic map of the Datil area, Catron County, New Mexico: U.S. Geol.

Survey, Misc. Inv. Ser. I-1098, scale 1:50,000 **Lopez**, L. M.

1978 Geomagnetic variation study in Hidalgo and Grant Counties, southwestern New Mexico: M.S. thesis, Univ. Texas (Dallas)

Lorenz, J. C.

see John, C. P., and others, 1978

Loring, Anne Kramer

1980 (and Armstrong, D. G.) Cambrian-Ordovician syenites of New Mexico, part of a regional alkalic intrusive episode: Geology, v. 8, no. 7, p. 344-348, 2 tables, 4 figs.

1980a (and Loring, R. B.) Age of thrust faulting, Little Hatchet Mountains, southwestern New Mexico: Isochron/West, no. 27, p. 29-30, 1 fig.

1980b (and Loring, R. B.) K/Ar ages of middle Tertiary igneous rocks from southern New Mexico: Isochron/West, no. 28, p. 17–19, 1 fig.

Loring, Richard B.

see Loring and Loring, 1980a, b

Lory, Jeffrey K.

see Chaturvedi and Lory, 1980

Loucks, Robert G.

1976 (and Folk, R. L.) Fanlike rays of former aragonite in Permian Capitan reef pisolite: Jour. Sed. Petrology, v. 46, no. 3, p. 483-485, 5 figs.

Loucks, T. A.

1978 (and Newell, R. A.) Geology and alteration of the Chino north pit, Santa Rita, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 3, p. 114

Louderbough, Ellen

1978 (and Potter, L. D.) Chemical-physical characteristics of Mancos Shale related to plant growth (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 4

Love, David W.

1976 The environmental and archaeological pertinence of a dynamic depositional model for the geomorphic system of Chaco Canyon, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 602-603

1977 Dynamics of sedimentation and geomorphic history of Chaco Canyon National Monument, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 291–300, 14 figs.

1979 Quaternary fluvial geomorphic adjustments in Chaco Canyon, New Mexico, *in* Adjustments of the fluvial system, D. D. Rhodes, editor: 10th Ann. Geomorphology Symp., p. 277-308

1980 Quaternary geology of Chaco Canyon, northwestern New Mexico: Ph.D. thesis, Univ. New Mex-

1980 (and Schultz, J.) Surficial geology and geomorphology related to mitigation of archaeological sites of the UII lease, *in* Human adaptations in a marginal environment, J. L. Moore and J. C. Winter, editors: Albuquerque, Office of Contact Archaeology, UII Mitigation Proj., p. 29–38, 535–539

Lovejoy, Earl M. P.

1976a A little problem concerning Fort Hancock-Camp Rice "mixed rounded gravels"; correlation in the El Paso-Las Cruces region, as viewed by a skeptic, in Stratigraphy and structure of the Franklin Mountains: El Paso Geol. Soc., p. 99-103

1976b Geology of Cerro del Cristo Rey uplift, Chihuahua and New Mexico: New Mexico Bureau Mines Mineral Resources, Mem. 31, 84 p., 12 tables, 26 figs., 29 photos, 2 appendices, 6 sheets in pocket

1976c Pre-Pliocene river system development, Colorado Plateau and southern Rocky Mountains—a theory (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 603

1976d Neotectonics of the southeast end of the Rio Grande rift along the Mesilla Valley fault zone, and the course of the Rio Grande, El Paso, Texas, *in* Stratigraphy and structure of the Franklin Mountains: El Paso Geol. Soc., p. 123–138, 2 tables, 4 figs.

1977 Basin and range tectogenesis—a first-order hypothesis (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 60

1980 The Eocene erosional "surface" and its relationship to onset of basin-range faulting (abs.): Am. Assoc. Petroleum Geologists, Southwest Sec., Ann. Mtg., Program, p. 44

1978 (and Seager, W. R.) Discussion of structural geology of Franklin Mountains, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 68-69

see Hawley, Lovejoy, and others, 1978; and LeMone and Lovejoy, 1976

Lovelace, Arlon D.

1976 Stabilization of a reactivated landslide near Wagon Mound on Interstate 25: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 277-279, 4 figs.

Lowrey, W. S.

see Keller, G. R., and Lowrey, 1976

Lowry, Robert M.

see Hicks, R. T., and others, 1980; and Lowy, Robert M. [correct spelling]

Lowy, Robert M.

see Baird, Martin, and Lowy, 1980; and Hicks, R. T., and others, 1979

Lu, Y.-M.

see Hsu and others, 1978

Lucas, Spencer G.

1977 Vertebrate paleontology of the San Jose Formation, east-central San Juan Basin, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 221-225, 1 table, 6 figs.

1980 Stratigraphy and age of the Galisteo Formation and the structural history of the Rio Puerco fault zone, north-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 279

1979 (and Kues, B. S.) Vertebrate biostratigraphy of the Eocene Galisteo Formation, north-central New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 225-229, 6 figs.

1979 (and Raza, S. M.) Comment on "Geologic implications of the relationship between mammalian faunal similarity and geographic distance": Geology, v. 7, no. 7, p. 327–328

1979 (and Rigby, J. K., Jr.) Comment on "Biostratigraphy and magnetostratigraphy of Paleocene terrestrial deposits, San Juan Basin, New Mexico": Geology, v. 7, no. 7, p. 323-325, 1 fig.

see Kues, B. S., Froehlich, and others, 1977; Kues, B. S., and Lucas, 1979; Rigby and Lucas, 1977; Tsen-

tas and Lucas, 1980; and Wood, C. B., and others, 1979

Luce, Richard M.

1978a Hospah Dakota (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 338-340, 3 figs.

1978b Hospah Lower Sand, south (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 341-343, 3 figs.

1978c Hospah Upper Sand, south (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 347–349, 3 figs.

Ludington, Steve D.

see Mutschler and others, 1978

Ludwig, Kenneth R.

1980 Discussion of "Rubidium-strontium minimum ages of sedimentation, uranium mineralization, and provenance, Morrison Formation (Upper Jurassic), Grants mineral belt, New Mexico": Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 10, p. 1718

1977 (Szabo, B. J., and Granger, H. C.) Pleistocene apparent ages by U-Pb isotope and U-series methods for uranium ore in Dakota Sandstone near Gallup, New Mexico: U.S. Geol. Survey, Jour. Research, v. 5, p. 669-672

Luedke, R. G.

1979 (and Smith, R. L.) Map showing distribution, composition, and age of late Cenozoic volcanic centers in Arizona and New Mexico: U.S. Geol. Survey, Misc. Inv. Ser. 1-1091-A, 2 sheets, scale 1:1,000,000

Luetkehans, Gerald R.

1976 Gas in tight sands, *in* Natural gas from unconventional geologic sources: Energy Research and Develop. Adm., Rept. FE-2271-1, p. 167-179, 1 table, 3 figs.

Lufkin, John L.

1976 Oxide minerals in microlitic rhyolite, Black Range, New Mexico: Am. Mineralogist, v. 61, no. 5-6, p. 425-430, 6 figs.

1977 Chemistry and mineralogy of wood-tin, Black Range, New Mexico: Am. Mineralogist, v. 62, no. 1–2, p. 100–106, 2 tables, 2 figs.; Geol. Soc. America, Abs. with Programs, 1976, v. 8, no. 5, p. 603–604

Lugmair, G. W.

see Jagoutz and others, 1980

Lunn, R. J.

see Orr, C. D., and others, 1979

Lupe, Robert D.

1977 Depositional history of the Triassic Santa Rosa Sandstone, Santa Rosa, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 61

see Huffman and Lupe, 1977; and Ridgley and others, 1978

Luth, William C.

1979 Melting and crystallization relations of the Harding pegmatite, New Mexico, pegmatite bulk composition (abs.): Univ. New Mexico, New Mexico Minerals Symp., p. 3-4

see Hardee and Luth, 1980; and Long and Luth, 1979

Lutz, Gale A.

see DeCicco, Patterson, and Lutz, 1978a-d, 1979, 1980

Lyford, Forest P.

1979 Ground water in the San Juan Basin, New Mexico and Colorado: Natl. Tech. Inf. Serv., Rept. PB-80 108 020, 27 p.; U.S. Geol. Survey, Water-resources Inv. 79-73, 27 p.

1979 (and Frenzel, P. F.) Projected ground-water pumpage from uranium mines in northwestern New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 125

1979 (Frenzel, P. F., and Stone, W. J.) Modeled effects of projected ground-water pumping on ground-water and surface-water resources in northwestern New Mexico, *abs. in* Grants uranium region, a symposium: Am. Assoc. Petroleum Geologists, Program, p. 15-16

1980 (Frenzel, P. F., and Stone, W. J.) Preliminary estimates of effects of uranium-mine dewatering on water levels, San Juan Basin, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 320–333, 2 tables, 10 figs.

1978 (and Stone, W. J.) Ground-water resources of northwestern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 5, p. 220

see Stone, W. J., and Lyford, 1978; and Trainer and Lyford, 1979

Lynch, A. W.

1979 Migration of cesium in dolomite from the Rustler Formation in the Los Medanos area in southeastern New Mexico, *in* Scientific basis for nuclear waste management, v. 1, G. J. McCarthy, editor: New York, Plenum Press, p. 399-402

Lynch, Daniel

see Keith, Wilt, and others, 1978

Lyon, D. K.

see Cooper and others, 1978

Lyon, R. J. P.

see Inglis and others, 1978

Lyons, Thomas R.

1976 (Ebert, J. I., and Hitchcock, R. K.) Archaeological analysis of imagery of Chaco Canyon region, New Mexico, in ERTS-1—a new window on our planet, R. S. Williams, Jr., and W. D. Carter, editors: U.S. Geol. Survey, Prof. Paper 929, p. 304–306, 2 figs.

Maassen, Larry W.

1979 (Bolivar, S. L., and others) Uranium hydrogeochemical and stream sediment reconnaissance of the Albuquerque NTMS quadrangle, New Mexico, including concentrations of forty-three additional elements: Los Alamos Sci. Lab., Rept. 7508, 193 p., scale 1:250,000; U.S. Dept. Energy, Rept. GJBX-145-79, 193 p.

1980 (LaDelfe, C. M., and others) Uranium hydrogeochemical and stream sediment reconnaissance of the Gallup NTMS quadrangle, New Mexico/Arizona, including concentrations of forty-two additional elements: Los Alamos Sci. Lab., Rept. LA-8002-MS, 164 p., 5 tables, 6 figs., 3 appendices, 5 sheets in pocket; U.S. Dept. Energy, Rept. GJBX-186-80

1980 (and others) Uranium hydrogeochemical and

stream sediment reconnaissance data release for Saint Johns NTMS quadrangle, Arizona/New Mexico, including concentrations of forty-two additional elements: Los Alamos Sci. Lab., Rept. LA-8015-MS, 158 p., 4 figs., 2 appendices, 6 sheets in pocket; U.S. Dept. Energy, Rept. GJBX-191-80

Maberry, John O.

see Pillmore and Maberry, 1976

Macer, R. J.

1978 Fluid inclusion studies of fluorite around the Organ cauldron, Doña Ana County, New Mexico: M.S. thesis, Univ. Texas (El Paso)

MacFadden, Bruce J.

1976 Magnetic polarity, stratigraphy, and mammalian biochronology of the Chamita Formation stratotype (Mio-Pliocene) of north-central New Mexico: Ph.D. thesis, Columbia Univ., 116 p.; Dissert. Abs. Internat., v. 37, no. 10, p. 4942-B-4943-B

1977 Magnetic polarity stratigraphy of the Chamita Formation stratotype (Mio-Pliocene) of northcentral New Mexico: Am. Jour. Sci., v. 277, p. 769-800

1976 (and Manley, Kim) Magnetic stratigraphy, tephrochronology, and mammalian biostratigraphy of the type Chamita Formation, north-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 605

Machette, Michael N.

1976a Logs of drill holes, San Acacia 7½-minute quadrangle, Socorro County, New Mexico: U.S. Geol. Survey, Open-file Rept. 76–688, 20 p., 1 fig.

1976b Timing and amounts of recurrent fault displacements near Albuquerque, New Mexico—an example of applied quantitative pedology and Quaternary stratigraphy (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 605-606

1978a Geologic map of the San Acacia quadrangle, Socorro County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1415, scale 1:24,000

1978b Preliminary geologic map of the Socorro 1° x 2° quadrangle, central New Mexico: U.S. Geol. Survey, Open-file Rept. 78-607, scale 1:250,000

1978c Late Cenozoic geology of the San Acacia-Bernardo area, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 135–137, I table, 2 figs.

1978d Bernalillo County Dump fault, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 153–156, 4 figs.

1978e Dating Quaternary faults in the southwestern United States by using buried calcic paleosols: U.S. Geol. Survey, Jour. Research, v. 6, no. 3, p. 369–381; abs. in New Mexico Geology, 1979, v. 1, no. 1, p. 15–16

1978 (and Bachman, G. O.) The age, morphology, and rate of accumulation of some pedogenic calcretes in New Mexico, U.S.A. (abs.): 10th Internat. Congr. on Sedimentology, v. 2, p. 404-405

see Brenner-Tourtelot and Machette, 1979

Macke, D. L.

see Shepherd and Macke, 1978

MacLachlan, Marjorie E.

1976 Lexicon of rock-stratigraphic units in Union, Colfax, Mora, and eastern Taos Counties, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 205–215

MacMillan, John R.

1976 (Naff, R. L., and Gelhar, L. W.) Prediction and numerical simulation of subsidence associated with proposed ground-water withdrawal in the Tularosa Basin, New Mexico: 2nd Internat. Symp. on Land Subsidence, Proc.

Magish, Deborah P.

1976 (and Harris, A. H.) Fossil ravens from the Pleistocene of Dry Cave, Eddy County, New Mexico: Condor, v. 78, no. 3, p. 399-404

Maki-Lopez, M. L.

1978 Geomagnetic variations study in Hidalgo and Grant Counties, southwestern New Mexico, U.S.A., *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 104-105

Malde, H. E.

1977 (and Scott, A. G.) Observations of contemporary arroyo cutting near Santa Fe, New Mexico, U.S.A.: Earth Surface Processes, v. 2, no. 1, p. 39-54

Maldonado, Florian

1974 Geology of the northern part of the Sierra Cuchillo, Socorro and Sierra Counties, New Mexico: M.S. thesis, Univ. New Mexico, 59 p.

1980 Geologic map of the northern part of Sierra Cuchillo, Socorro and Sierra Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-230, scale 1:24,000

Malkiel, A.

see Rogers, A. M., and Malkiel, 1979

Mallory, William W.

1977a Oil and gas from fractured shale reservoirs in Colorado and northwest New Mexico: Rocky Mtn. Assoc. Geologists, Spec. Pub. 1, 38 p., scale 1:500,000

1977b Fractured shale hydrocarbon reservoirs in southern Rocky Mountain basins, *in* Exploration frontiers of the central and southern Rockies, H. K. Veal, editor: Rocky Mtn. Assoc. Geol., Guidebook 1977 field conf., p. 89-94

Malone, T. Lynn

1978a Aztec Fruitland (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 188-189, 3 figs.

1978b Aztec Fruitland, north (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 190-191, 3 figs.

1978c Blanco Fruitland (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 222-224, 3 figs.

1978d Conner Fruitland (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 270–271, 2 figs.

1978e Flora Vista Fruitland (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 292-293, 3 figs.

1978f Kutz Farmington (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others,

editors: Four Corners Geol. Soc., p. 357-358, 3 figs.

1978g Kutz Fruitland (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 359–360, 3 figs.

1978h La Jara Fruitland (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 369–370, 1 fig.

Mamet, Bernard L.

see Armstrong, A. K., Kottlowski, and others, 1980; Armstrong, A. K., and Mamet, 1977a,b, 1978a,b, 1979a,b; Armstrong, A. K., Mamet, and Burton, 1979; and Armstrong, A. K., Mamet, and Repetski, 1980

Manley, Kim

1976a K-Ar age determinations on Pliocene basalts from the Española Basin, New Mexico: Isochron/West, no. 16, p. 29-30

1976b Tephrochronology of the Tesuque, Ancha, and Puye Formations of the Santa Fe Group, Española Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 606-607

1976c The late Cenozoic history of the Española Basin, New Mexico: Ph.D. thesis, Univ. Colorado, 193 p.; Dissert. Abs. Internat., v. 37, no. 8, p. 3827-B-3828-B

1977 Geologic map of the northeastern part of the Española Basin, New Mexico, showing the Cejita Member (new name) of the Tesuque Formation: U.S. Geol. Survey, Misc. Field Studies Map MF-877, scale 1:24,000

1978a Structure and stratigraphy of the Española Basin, Rio Grande rift, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-667, 25 p., 4 figs.

1978b Pliocene deformation along the Rio Grande rift in the Española Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 5, p. 233

1978c Cenozoic structure and stratigraphy of the Española Basin, Rio Grande rift, New Mexico, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 55-56

1978d Geologic map of Bernalillo NW quadrangle, Sandoval County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1446, scale 1:24,000

1978e Cenozoic geology of Española Basin, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 201-210, 5 figs.

1979a Stratigraphy and structure of the Española Basin, Rio Grande rift, New Mexico, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 71–86, 4 figs.; U.S. Geol. Survey, 1978, Open-file Rept. 78–667, 25 p., 4 figs.

1979b Tertiary and Quaternary stratigraphy of the northeast plateau, Española Basin, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 231–236, 6 figs.

1977 (and Naeser, C. W.) Fission-crack ages for tephra layers in upper Cenozoic rocks, Española Basin, New Mexico: Isochron/West, no. 18, p. 13-14

1978 (and Scott, G. R.) Preliminary geologic map of the Aztec 1° by 2° quadrangle, northwestern New

Mexico and southern Colorado: U.S. Geol. Survey, Open-file Rept. 78-466, 8 p.

see Budding, Robertson, and others, 1979; Hawley, Bachman, and Manley, 1976; and MacFadden and Manley, 1976

Mannhard, Gregory W.

1976 Stratigraphy, sedimentology, and paleoenvironments of the La Ventana Tongue (Cliff House Sandstone) and adjacent formations of the Mesa Verde Group (Upper Cretaceous), southeastern San Juan Basin, New Mexico: Ph.D. thesis, Univ. New Mexico, 232 p.; Dissert. Abs. Internat., 1977, v. 38, no. 2, p. 558-B

Mansure, Arthur J.

1977 (and Reiter, M.A.) An accurate equilibrium temperature log in AEC #8, a drill test in the vicinity of the proposed Carlsbad disposal site: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 80, 7 p., 1 fig.

1979 (and Reiter, M. A.) A vertical ground-water movement correction for heat flow: Jour. Geophys. Research, v. 84, no. B7, p. 3490-3492

see Reiter, Edwards, Mansure, and Shearer, 1978; Reiter, Edwards, Shearer, Fisher, and others, 1976; Reiter, Edwards, Shearer, McGrath, and Mansure, 1976; and Reiter, Mansure, and Shearer, 1979a, b

Mapel, William J.

1979 (Johnson, R. B., Bachman, G. O., and Varnes, K. L.) Southern midcontinent and southern Rocky Mountains region, *in* Paleotectonic investigations of the Mississippian System in the United States—pt. 1, introduction and regional analyses of the Mississippian System, L. C. Craig and C. W. Connor, compilers: U.S. Geol. Survey, Prof. Paper 1010–J, p. 160–187, 7 figs.

Mardirosian, Charles A.

1979 Principal mining districts of New Mexico: New Mexico Geology, v. 1, no. 3, p. 37-38, 48, 1 fig.

Mariner, R. H.

1977 (Presser, T. S., and Evans, W. C.) Chemical, isotopic, and gas combinations of selected thermal springs in Arizona, New Mexico, and Utah: U.S. Geol. Survey, Open-file Rept. 77-654, 56 p., 8 tables, 4 figs.

Markewich, William

see Miller, B. M., and others, 1978

Marple, Lynn M.

1979 Radium-226 in vegetation and substrates at inactive uranium mill sites: Ph.D. thesis, Univ. New Mexico, 74 p.

1978 (Kelley, N. E., and Potter, L. D.) Uptake of trace elements by vegetation at inactive uranium mill sites (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 3-4

Marquis, M. A.

see Sherwood and Marquis, 1980

Marshall, J. G.

see Hiss and Marshall, 1976

Marshall, P. D.

see Thomas, J. H., and others, 1978

Marston, Donald D.

1976 Application of bucket wheel excavators to thick western coal seams: Mining Congr. Jour., v. 62, no. 6, p. 22–28, 6 figs.

Martin, Joseph P.

see DeVoto, Mead, Bergquist, and Martin, 1977; and DeVoto, Mead, Martin, and Bergquist, 1980

Martin, Kalvin W.

see Baird and Martin, 1979; and Baird, Martin, and Lowy, 1980

Martin, Paul S.

see Thompson, R. S., and others, 1980

Martin, William C.

1976 Some aspects of the natural history of Colfax and eastern Taos Counties, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 97–102, 2 figs.

Martinez, Louis B.

1978 (compiler) Contour map showing average daily production per well for 1976 in the Blanco Mesaverde Gas Pool in northwest New Mexico, in New Mexico's energy resources '77, E. C. Arnold, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 167, 1 sheet in pocket

1980 Coal, *in* New Mexico's energy resources '79, E. C. Arnold and J. M. Hill, compilers: New Mexico Bureau Mines Mineral Resources, Circ. 172, p. 28-38, 7 tables, 7 figs.

see Arnold, Hill, Donaldson, and others, 1978

Martinez, Ruben

1979 Provenance study of the Westwater Canyon and Brushy Basin Members of the Morrison Formation between Gallup and Laguna, New Mexico: Ph.D. thesis, Univ. New Mexico, 79 p.

see Woodward, DuChene, and Martinez, 1977 Marvin, Richard F.

1978 (and Cole, J. C.) Radiometric ages—compilation A, U.S. Geological Survey: Isochron/West, no. 22, p. 3-14, 1 fig.

1979 (and Dobson, S. W.) Radiometric ages—compilation B, U.S. Geological Survey: Isochron/West, no. 26, p. 3–32, 1 fig.

1978 (Naeser, C. W., and Mehnert, H. H.) Tabulation of radiometric ages—including unpublished K-Ar and fission-track ages—for rocks in southeastern Arizona and southwestern New Mexico: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 243-252, 3 tables, 1 fig.

Mason, James T.

1976 The geology of the Caballo Peak quadrangle, Sierra County, New Mexico: M.S. thesis, Univ. New Mexico, 131 p.

Massingill, Gary L.

1977 Baca Formation: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 94, 17 p., 7 figs.

1978 Geology of the southeastern edge of the Colorado Plateau, Riley area, Socorro County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 5, p. 233

1979a Geology of Riley-Puertecito area, southeastern margin of Colorado Plateau, Socorro County, New Mexico: D.G.S thesis, Univ. Texas (El Paso), 336 p.; Dissert. Abs. Internat., v. 40, no. 4, p. 1593-B-1594-B; New Mexico Bureau Mines Mineral Resources, Open-file Rept. 107, 1977, 301 p.

1979b Uranium indicator plants of the Colorado Plateau: New Mexico Geology, v. 1, no. 4, p. 49–52, 1 table, 7 figs.

see Chapin, Osburn, and others, 1979

Masters, John A.

1979 Deep basin gas trap, western Canada: Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 2, p. 152-181, 3 tables, 21 figs.

Matalas, N.C.

see Landwehr and others, 1978

Matheny, J. Paul

1978 Wildhorse Dakota (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 561–563

see Matheny, M. L., and Matheny, 1978a-g

Matheny, Marvin L.

1978a A history of the petroleum industry in the Four Corners area, *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 17-24

1978b Barker Creek Dakota (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 198–200,

3 figs.

1978c Barker Creek Paradox (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 201–203, 3 figs.

1978d Gobernador Pictured Cliffs (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 323-324, 3 figs.

1978e Huerfano Pictured Cliffs (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 350–352, 3 figs.

1978f Sleeper Pictured Cliffs (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 495-496, 3 figs.

1978 (and Folk, J. K.) Ojito Gallup (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 433-434, 3 figs.

1978a (and Little, C. J.) Many Rocks Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 398-402, 7 figs.

1978b (and Little, C. J.) Many Rocks Gallup, north (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 403-405, 4 figs.

1978c (and Little, C. J.) Mesa Gallup (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 418–420, 4 figs.

1978a (and Matheny, J. P.) Angel's Peak Gallup (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 181–183, 4 figs.

1978b (and Matheny, J. P.) BS Mesa Gallup (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 251–253, 4 figs.

1978c (and Matheny, J. P.) Cha Cha Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 256-259, 4 figs.

1978d (and Matheny, J. P.) Piñon Gallup (oil), in

Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 460-461. 3 figs.

1978e (and Matheny, J. P.) Simpson Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 492-494, 4 figs.

1978f (and Matheny, J. P.) Totah Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 535-537, 4 figs.

1978g (and Matheny, J. P.) Wildhorse Gallup (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 564-567, 5 figs.

1978 (and Talley, D. A.) Oil and gas field discovery lists and index maps, *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 25-29, 5 figs.

see Fassett, Thomaidis, and Matheny, 1978; and Stevenson and Matheny, 1978

Mathewson, David C.

see Robertson, J. M., Condie, and Mathewson, 1978

Matlick, J. S.

see Smith, J. L., and others, 1980

Matsubaya, O.

see Sakai and others, 1976

Maulsby, Joe

1980 Geology of the Rancho de Lopez area east of Socorro, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 85 p., 34 figs., 5 pls., 4 appendices, 1 sheet, scale 1:12,000

Maurer, W. C.

1978 (Rowlery, J. C., and Carwile, C.) Advanced turbodrills for geothermal wells: Natl. Tech. Inf. Serv., Rept. LA-UR-78-1239, 4 p.; *abs. in* New Mexico Geology, 1979, v. 1, no. 2, p. 31

Maxon, J. Rolfe

1976 Age and implications of the Tres Piedras Granite, north-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 608

Maxwell, Charles H.

1976a Geologic map of the Acoma Pueblo quadrangle, Valencia [Cibola] County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1298, scale 1:24,000

1976b Stratigraphy and structure of the Acoma region, New Mexico, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 95-101, 3 figs.

1977a Preliminary geologic map of the Los Pilares quadrangle, Valencia [Cibola] County, New Mexico: U.S. Geol. Survey, Open-file Rept. 77-240, scale 1:24.000

1977b Preliminary map of the Cubero quadrangle, Valencia [Cibola] County, New Mexico: U.S. Geol. Survey, Open-file Rept. 77-241, scale 1:24,000

1977c Preliminary geologic map of the Crow Point quadrangle, Valencia [Cibola] County, New Mexico: U.S. Geol. Survey, Open-file Rept. 77–323, scale 1:24.000

.24,000

1977d Preliminary geologic map of the McCartys quadrangle, Valencia [Cibola] County, New Mexico:

U.S. Geol. Survey, Open-file Rept. 77-380, scale 1:24,000

1978 Map showing appraisal of mineral resource potential of RARE II proposed roadless areas in national forests, New Mexico (exclusive of coal, oil, gas, and construction materials): U.S. Geol. Survey, Open-file Rept. 78–859, scale 1:500,000

1979 Geologic map of the East Mesa quadrangle, Valencia County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map OGQ-1522, scale 1:24,000

1976 (and Heyl, A. V.) Preliminary geologic map of the Winston quadrangle, Sierra County, New Mexico: U.S. Geol. Survey, Open-file Rept. 76–858, scale 1:24,000

1980 (and Heyl, A. V.) Mineralization and structure of mineral deposits in the Hermosa, Chloride, and Phillipsburg areas, New Mexico: Lab. Global Tectonics and Metallogeny, Bull., v. 1, no. 2, p. 129-133, 5 figs.

Maxwell, J. C.

see Schubert and others, 1980; and Goff and others, 1978

Maxwell, Norman E.

1976 Northwest New Mexico output off despite more wells: Western Oil Reporter, April, p. 36–37

May, S. Judson

1977 Ojo Caliente tuff ring, Rio Arriba County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 6, p. 748

1979 Noogene stratigraphy and structure of the Ojo Caliente-Rio Chama area, Española Basin, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 83-88, 4 figs.

1980 Neogene geology of the Ojo Caliente-Rio Chama area, Española Basin, New Mexico: Ph.D. thesis, Univ. New Mexico, 204 p.

Mayer, Lawrence

see Gloss and others, 1978

Mayerson, David L.

1979 Geology of the Corkscrew Canyon-Abbe Spring area, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 112, 133 p., 2 tables, 18 figs., 1 sheet, 2 appendices; M.S. thesis, New Mexico Inst. Mining and Tech., 125 p.

Mayhew, M. A.

1979 Regional crustal magnetization variation in the western United States (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 7, p. 94

Maynard, Jim

1978a Hogback Dakota (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 331–332, 3 figs.

1978b Hogback Mississippian (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 333, 1 fig.

1978c Hogback Pennsylvanian (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 334, 1 fig.

1978d Mt. Nebo Fruitland (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 425-426, 4 figs.

1978e Piñon Fruitland (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 456-457, 3 figs.

Mazzullo, S. J.

1980 Calcite pseudospar replacive of marine acicular aragonite, and implications for aragonite cement diagenesis: Jour. Sed. Petrology, v. 50, no. 2, p. 409-422

1977 (and Cys, J. M.) Submarine currents in Permian boundstones and reef-associated rocks, Guadalupe Mountains, west Texas and southeastern New Mexico: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 1, p. 151-200

1978a (and Cys, J. M.) Submarine cements and fabric-retentive diagenesis, Capitan reef (Permian), Guadalupe Mountains, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 541

1978b (and Cys, J. M.) Archaeolithoporellaboundstones and marine aragonite cements, Permian Capitan reef, New Mexico and Texas, U.S.A.: Neues Jahrb. Geologie u. Paläontologie Monatsh., no. 10, p. 600-611

1979a (and Cys, J. M.) Marine aragonite sea-floor growths and cements in Permian phylloid algal mounds, Sacramento Mountains, New Mexico: Jour. Sed. Petrology, v. 49, no. 3, p. 917-936

1979b (and Cys, J. M.) In-situ formation of botryoidal aragonite on Permian seafloor (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 3, p. 493

see Cys and Mazzullo, 1977

McAnulty, William N.

1978 Fluorspar in New Mexico: New Mexico Bureau Mines Mineral Resources, Mem. 34, 64 p., 6 tables, 31 figs., 11 pls., 14 sheets in pocket

1980 (compiler) Generalized geology and structure of Trans-Pecos Texas and adjacent Republic of Mexico: New Mexico Geol. Soc., Guidebook 31st field conf., Trans-Pecos, sheet in pocket, scale 1" = 5 mi

McBryde, John C.

1979 Pennsylvanian (middle Desmoinesian) coarsegrained fluvial and fluvial-deltaic deposits, Taos trough, north-central New Mexico: M.S. thesis, Univ. Texas (Austin)

1979 (and Casey, J. M.) Pennsylvanian coarsegrained meandering fluvial deposits, Taos trough, north-central New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 5, p. 834–835

McCaslin, B. D.

1977 (and Titman, P. S.) Fertilizer value of undigested and digested thermoradiation treated sewage sludges on calcareous soil (abs.): Pollution Abs., v. 8, no. 4, p. 690

McClellan, William A.

see Bachhuber and McClellan, 1976, 1977

McCormick, Tamsin C.

1980 Exsolution in alkali feldspars and implications for the cooling history of the Battleship Rock tuff, northern New Mexico: M.S. thesis, Univ. New Mexico, 99 p.

1980 (and Smyth, J. R.) Exsolution in alkali feldspars reflects post-depositional cooling in the Battleship Rock tuff, Jemez Mountains, New Mexico

(abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1147

McCullar, Dan B.

1977 Seismic refraction analysis of the crust and upper mantle beneath the Rio Grande rift in southern New Mexico: M.S. thesis, Univ. Wyoming

see Cook, McCullar, and others, 1979; and Smithson and McCullar, 1977

McDaniel, T. N.

1979 (and Decker, R. S.) Dispersive soil problem at Los Esteros Dam: Am. Soc. Civil Engineers, Jour. Geotech. Eng. Div., v. 105, no. GT9, p. 1017-1030, 3 tables, 5 figs., 1 appendix; Sel. Water Resources Abs., 1980, v. 13, no. 3, p. 64

McDonald, Robert E.

1976 Tertiary tectonics and sedimentary rocks along the transition—Basin and Range province to plateau and thrust belt province, Utah, *in* Geology of the Cordilleran hingeline, J. G. Hill, editor: Rocky Mtn. Assoc. Geol., Guidebook 1976 symp., p. 281-317, 15 figs.

McDowell, Fred W.

see Roden and others, 1979

McEachin, W. D.

1978 (and Royce, R. M.) Horseshoe Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 335-337, 3 figs.

McElhinny, M. W.

1980 (and Crowley, J. A.) Paleomagnetic direction and pole positions—XVI, pole numbers 16/1 to 16/26: Royal Astron. Soc., Geophys. Jour., v. 61, no. 3, p. 549-571

McFadden, D. H.

see Burroughs and McFadden, 1976

McGeary, Susan

see Cape and others, 1980

McGetchin, Thomas R.

1979 (Burke, K., Thompson, G., and Young, R.) Plateau uplifts—mode and mechanism: Am. Geophys. Union (EOS), Trans., v. 60, no. 6, p. 64-67, 3 tables, 3 figs.

1977 (Smith, D., and others) Navajo kimberlites and minetts guide: 2nd Internat. Kimberlite Conf., field guide, 39 p.

see Heiken and others, 1976; Kolstad and McGetchin, 1978; Kolstad, McGetchin, and Laughlin, 1976; and Silver, L. T., and McGetchin, 1978

McGowen, J. H.

1979 Depositional facies and uranium occurrence, Triassic (Dockum Group), Texas panhandle (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 5, p. 835

1977 (Granata, G. E., and Seni, S. J.) Depositional systems, uranium occurrence and postulated groundwater history of the Triassic Dockum Group, Texas panhandle, eastern New Mexico: Univ. Texas (Austin), Bureau Econ. Geology, 104 p.

McGrath, E. E.

see Reiter, Edwards, Shearer, Fisher, and others, 1976; and Reiter, Edwards, Shearer, McGrath, and Mansure, 1976

McIntosh, Willard L.

1979 (and Eister, M. F.) Geologic map index of New Mexico: U.S. Geol. Survey, 32 p., 6 figs.

McIntyre, A. F.

see Jones, C. L., and McIntyre, 1979; and Snyder, R. P., and McIntyre, 1979

McKay, E. J.

see Myers and McKay, 1976

McKinney, C. R.

see Rosholt and McKinney, 1980

McKnight, J. F.

1978 (and Fellows, M. L.) Silicate mineral assemblages and their relationship to sulfide mineralization, Pinos Altos mineral deposit, New Mexico: Arizona Geol. Soc., Digest, v. 11, p. 1-8

McLafferty, Susan W.

1979 Depositional environments in the transition from Mancos Shale to Mesa Verde Group near Carthage, Socorro County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 125 p., 8 tables, 31 figs., 1 pl.

McLean, John S.

1976 Factors altering the microclimate in Carlsbad Caverns, New Mexico: U.S. Geol. Survey, Open-file Rept. 76–171, 59 p., 3 tables, 31 figs.

1977 Hydrologic maps and data in the Mimbres Basin, New Mexico: U.S. Geol. Survey, Open-file Rept. 77-314, 531 p., 6 tables, 2 figs., 6 sheets, scale 1:48,000

1980 Aquifer tests in the Gallup Sandstone near Yah-Ta-Hey, New Mexico: Natl. Tech. Inf. Serv., Rept. PB-81 103 590, 31 p.; U.S. Geol. Survey, Water-resources Inv. 80-25, 31 p.

1977 (and Garza, Sergio) Fresh-water resources in the southeastern part of the Tularosa Basin, New Mexico: New Mexico State Engineer, Tech. Rept. 40, 67 p.

McLelland, Douglas

see Woodward, Gibson, and McLelland, 1976; and Woodward, McLelland, and Husler, 1977

McLemore, Virginia T.

1980a Geology of the Precambrian rocks of the Lemitar Mountains, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Openfile Rept. 122, 207 p., 19 tables, 15 figs., 3 maps; M.S. thesis, New Mexico Inst. Mining and Tech., 169 p.

1980b Proterozoic sedimentation and tectonic evolution of the Corkscrew Canyon sequence in the Lemitar Mountains, Socorro, New Mexico (abs.): New Mexico Geology, v. 2, no. 3, p. 48

1980c Carbonatites in the Lemitar Mountains, Socorro County, New Mexico: New Mexico Geology, v. 2, no. 4, p. 49–52, 3 tables, 1 fig.

McMillan, Colin

see Jones, B., and McMillan, 1977

McMillan, David Kent

1979 Crystallization and metasomatism of the Cuchillo Mountain laccolith, Sierra County, New Mexico: Ph.D. thesis, Stanford Univ., 298 p.; Dissert. Abs. Internat., 1980, v. 40, no. 9, p. 4167-B

1979 (and Jahns, R. H.) Metasomatism in the Cuchillo Mountain laccolith, Sierra County, New Mexico: *abs. in* New Mexico Geology, v. 1, no. 4, p. 61

see Jahns, McMillan, and others, 1978

McNaughton, Clark H.

1978 Conventional potash mining, in Geology and

mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 63-64, 7 figs.

Mead, Richard H.

see DeVoto and Mead, 1979; DeVoto, Mead, Bergquist, and Martin, 1977; and DeVoto, Mead, Martin, and Bergquist, 1980

Meeves, Henry C.

see Ratte, Gaskill, and others, 1979

Mega, J.

see Schufle, Mega, and Beckhart, 1979

Mehnert, Harald H.

see Bachman and Mehnert, 1978; Lipman and Mehnert, 1979, 1980; Marvin, Naeser, and Mehnert, 1978; and O'Neill, J. M., and Mehnert, 1980a, b

Mehringer, P. J.

see Adam and Mehringer, 1980

Meinschein, W. G.

see Des Marais and others, 1980

Meissner, Fred F.

1977 Coal as a major source of dry natural gas, with examples from two Rocky Mountain basins—San Juan and Raton, *abs. in* Geology of Rocky Mountain coal—proceedings of the 1976 symposium, D. K. Murray, editor: Colo. Geol. Survey, Resource Ser. 1, p. 174–175

Melancon, S. M.

1979 (Michaud, T. S., and Thomas, R. W.) Assessment of energy resource development impact on water quality—the San Juan River basin: Natl. Tech. Inf. Serv., Rept. EPA-600/7-79-235, 152 p.

Melvin, James W.

1976 Systematic distribution of large uranium deposits in the Grants uranium region, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 144–150, 5 figs.; Geol. Soc. America, Abs. with Programs, v. 5, no. 5, p. 611–612

Mendes, R. V.

1979 (and Van Trump, G., Jr.) Geochemical data for New Mexico: Natl. Tech. Inf. Serv., Rept. PB-300-543, magnetic tape

Menzies, Martin

1980 (and Murthy, V. R.) Nd- and Sr-isotope geochemistry of hydrous mantle nodules and their host alkali basalts—implications for local heterogeneities in metasomatically veined mantle: Earth and Planet. Sci. Letters, v. 46, no. 3, p. 323–334, 3 tables, 4 figs. see Saito, Menzies, and others, 1978

Mercado, Abraham

1977 The kinetics of mineral dissolution in carbonate aquifers as a tool for hydrological investigations—pt. II, hydrogeochemical models: Jour. Hydrology, v. 35, no. 3-4, p. 365-384, 10 figs.

Mercer, Jerry W.

1979 Hydrologic testing of strata associated with Permian bedded salt (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 267

1978 (and Hiss, W. L.) Solution of Permian Ochoan evaporites, northern Delaware Basin, New Mexico, *abs. in* Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas,

G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 86

1977 (and Orr, B. R.) Review and analysis of hydrogeologic conditions near the site of a potential nuclear-waste repository, Eddy and Lea Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 77–123, 59 p., 1 table, 7 figs.

1979 (and Orr, B. R.) Interim data report on the geohydrology of the proposed Waste Isolation Pilot Plant site, southeast New Mexico: Natl. Tech. Inf. Serv., Rept. PB-80 128 762, 188 p.; U.S. Geol. Survey, Water-resources Inv. 79-98, 188 p.

see Lambert, S. J., and Mercer, 1977

Merillat, Candace Holts

1977a Sketch of the first fifty years of the New Mexico Bureau of Mines and Mineral Resources: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1976-77, p. 29-33, 1 table

1977b Acts of the New Mexico Legislature 1927-77 relating to New Mexico Bureau of Mines and Mineral Resources: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1976-77, p. 34-47

see also Holts, Candace L.

Merrick, Margaret A.

1980 Geology of the eastern part of the Regina quadrangle, Sandoval and Rio Arriba Counties, New Mexico: M.S. thesis, Univ. New Mexico

Messer, P. H.

1978 (Pye, D. S., and Gallus, J. P.) Injectivity restoration of a hot-brine geothermal injection well: Jour. Petroleum Tech., v. 30, September, p. 1225-1230, 1 table, 4 figs.

Metcalf, A. L.

1977 Some Quaternary molluscan faunas from the northern Chihuahuan Desert and their paleoecological implications, *in* Transactions of the symposium on the biological resources of the Chihuahuan Desert region, United States and Mexico: U.S. Natl. Park Serv., Trans. Proc. Ser., no. 3, p. 53–66

1980 Fossil Rangia cuneata (mactridae) in Eddy County, New Mexico: Nautilus, v. 94, no. 1, p. 2-3

Metts, David A.

1977a Tres Papalotes field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 198–199, 1 table, 1 fig.

1977b Tres Papalotes west field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 200, 1 table

Meyer, Henry O.

1976 Kimberlites of the continental United States—a review: Jour. Geology, v. 84, no. 4, p. 377–403, 2 tables, 13 figs.

Meyer, W. R.

1976 Digital model for simulated effects of ground-water pumping in the Hueco Bolson, El Paso area, Texas, New Mexico, and Mexico: Natl. Tech. Inf. Serv. PB-253 015/AS, 106 p.; U.S. Geol. Survey, Water-resources Inv. 75-58, 106 p.

Meyers, William J.

1977a Chertification in the Mississippian Lake Valley Formation, Sacramento Mountains, New Mexico: Sedimentology, v. 24, no. 1, p. 75-105

1977b Regional cementation patterns in Mississip-

pian limestones of southern New Mexico and Arizona (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 5, p. 813

1978 Carbonate cements—their regional distribution and interpretation in Mississippian limestones of southwestern New Mexico: Sedimentology, v. 25, no. 3, p. 371–397

1980 Compaction in Mississippian skeletal limestones, southwestern New Mexico: Jour. Sed. Petrol-

ogy, v. 50, no. 2, p. 457-474, 6 figs.

1978 (and Lohmann, K. C.) Microdolomite-rich syntaxial cements—proposed meteoric-marine mixing zone phreatic cements from Mississippian limestones, New Mexico: Jour. Sed. Petrology, v. 48, no. 2, p. 475-488

1980 (and Lohmann, K. C.) Geochemistry of regionally extensive calcite cement zones in Mississippian skeletal limestones, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 750, 1 fig.

see Lohmann and Meyers, 1976, 1977; Oglesby and others, 1979; and Vaughan and Meyers, 1976

Michaud, T. S.

see Melancon and others, 1979

Miera, F. R.

see Nyhan and others, 1976

Miesen, D. L.

see Brown, L. D., Miesen, and others, 1980

Milanese, Robert S.

1978 Perlite: Mining Engineering, v. 30, no. 5, p. 535

Miles, Dan J.

see Dennis, B. R., Miles, and others, 1978

Milios, P.

1976 Water and energy required to operate coal gasification facilities and waste water treatment requirements (abs.): Sel. Water Resources Abs., v. 9, no. 3, p. 75

Miller, Betty M.

1978 (Carlson, K. H., and Markewich, William) New developments in methods of resource estimation, Gulf of Mexico and Permian Basin, west Texas and southeastern New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 544

Miller, Forest

1980 The Washington Ranch Morrow field—a case history in frontier exploration (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 46

Miller, Gifford H.

1980 (and Hare, P. E.) Amino acid geochronology—integrity of the carbonate matrix and potential of molluscan fossils, *in* Biogeochemistry of amino acids, P. E. Hare, editor: New York, John Wiley and Sons, p. 415-443

1979 (Nelson, A. R., and others) Amino acid geochronology utilizing terrestrial gastropods from western U.S. (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 6, p. 280

Miller, Harry A., Jr.

see Diemer and others, 1980

Miller, Stan

1976 A Southwest power plant saga: Environ. Sci. and Tech., v. 10, no. 6, p. 532-537, 5 figs.

Millgate, M. L.

see John, C. P., and others, 1978

Milner, Sam

1976 Carbonate petrology and syndepositional facies of the lower San Andres Formation (middle Permian), Lincoln County, New Mexico: Jour. Sed. Petrology, v. 46, no. 3, p. 463–482, 13 figs.

1978 Genesis, provenance, and petrography of the Glorieta Sandstone of eastern New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 165,

25 p., 3 tables, 23 figs.

Minear, J. W.

1979 (and Irving, A. J.) Composite mantle xenoliths and melt movement (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 419

Minor, M. M.

see Aamodt, Hansel, and others, 1977

Mishler, Robert

see Schufle, Baca, and others, 1976

Mitcham, T. W.

1978 Structural reconnaissance of the southwest porphyry copper province: Arizona Geol. Soc., Digest, v. 11, p. 93-98

Mitchell, J. M.

see Des Marais and others, 1980

Miyamoto, S.

1977 (Bristol, A., and Gould, W. L.) Wettability of coal-mine spoils in northwestern New Mexico: Soil Sci., v. 123, no. 4, p. 258–263, 5 tables, 1 fig.; Sel. Water Resources Abs., v. 10, no. 18, p. 72

see Gould and others, 1977

Mizell, Nancy H.

1980a Inventory of geothermal leasing and drilling activity in New Mexico: New Mexico Geology, v. 2, no. 4, p. 53–54, 3 tables, 3 figs.

1980b Documentation for computerization of geothermal activity in New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 121, 27 p.

1979 (and Stone, W. J.) Maps showing the regional extent of sandstone bodies within the Gallup Sandstone (compiled for the San Juan Basin hydrogeologic study): New Mexico Bureau Mines Mineral Resources, Open-file Rept. 105, 2 p., 2 tables, 1 fig., 5 sheets

see Stone, W. J., and Mizell, 1977, 1978; and Stone, W. J., Mizell, and Hawley, 1979

Modreski, Peter J.

1979 Rare earth elements in agardite and in other minerals from the Red Cloud district, New Mexico (abs.): Univ. New Mexico, New Mexico Minerals Symp., p. 9

Moench, Robert H.

1980 (and Erickson, M. S.) Occurrence of tungsten in the Sangre de Cristo Range near Santa Fe, New Mexico—possible stratabound scheelite peripheral to favorable settings for volcanogenic massive-sulfide deposits: U.S. Geol. Survey, Open-file Rept. 80-1162, 23 p.

see Robertson, J. M., and Moench, 1979

Mogro-Campero, Antonio

see Fleischer, Hart, and Mogro-Campero, 1980; and Fleischer and Mogro-Campero, 1979a, b

Molenaar, Cornelius M.

1977a The Pinedale oil seep—an exhumed stratigraphic trap in the southwestern San Juan Basin: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III. p. 243-246. 5 figs.

1977b Stratigraphy and depositional history of Upper Cretaceous rocks of the San Juan Basin area, New Mexico and Colorado, with a note on economic resources: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 159–166, 1 fig.

1977c San Juan Basin time-stratigraphic nomenclature chart: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. xii, 1 fig.

1978 Time-stratigraphic nomenclature chart (San Juan Basin), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 25-29, 5 figs.

see Fassett, Jentgen, and others, 1977; and Fassett, Molenaar, and others, 1977

Moodie, Kevin B.

1979 (and Van Devender, T. R.) Extinction and extirpation in the herpetofauna of the southern High Plains with emphasis on *Geochelone wilsoni* (Testudinidae): Herpetologica, v. 35, no. 3, p. 198–206

Moore, D. I.

1978 (Gosz, J. R., and White, C. S.) Impact of a ski basin on a mountain watershed—pt. II, heavy metals: Water, Air and Soil Pollution, v. 10, no. 1, p. 81–93, 7 tables; Sel. Water Resources Abs., 1979, v. 12, no. 13, p. 35

see White, C. S., and others, 1978

Moore, H. J.

1976 Missile impact craters (White Sands Missile Range, New Mexico) and applications to lunar research: U.S. Geol. Survey, Prof. Paper 812-B, p. B1-B47

Moore, Jack C.

1979 Uranium deposits in the Galisteo Formation of the Hagan Basin, Sandoval County, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 265–267, 2 figs.

Moore, M. J.

see Wilcox and others, 1980

Moore, R. B.

1978 Cenozoic igneous rocks of the Colorado Plateau, *in* Plateau uplift—mode and mechanism: Lunar and Planet. Sci. Inst., p. 28–30

Moore, Stephen C.

1980 (and Lavery, N. G.) Magnitude and variability of disequilibrium in San Antonio Valley uranium deposit, Valencia County, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 276–283, 2 tables, 12 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 16; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 691–692

Morain, Stanley A.

1977 (Budge, T. K., and White, M. E.) Vegetation and land use in New Mexico: New Mexico Bureau Mines Mineral Resources, Resource Map 8, scale 1:1,000,000

Morgan, Paul

1980 (Swanberg, C. A., and Lohse, R. L.) Borehole temperature studies of the Las Alturas geothermal anomaly, New Mexico: Natl. Tech. Inf. Serv., Rept. DOE/1D/01717-1, p. 9.1-9.14

1979 (Swanberg, C. A., and others) Geophysical evaluation of the Las Alturas Estates, New Mexico geothermal prospect (abs.): Soc. Exploration Geophys., Ann. Mtg., p. 102

see Harder and others, 1980; Lohse and others, 1980a,b; Seager and Morgan, 1978a,b, 1979; Seager, Morgan, and Hawley, 1978; and Swanberg and others, 1977

Morgan, R. D.

see DeCicco, Patterson, and Morgan, 1980

Morgan, Terrance L.

1978 (and Broxton, D. E.) Uranium hydrogeochemical and stream sediment reconnaissance of the Raton NTMS quadrangle, New Mexico: Los Alamos Sci. Lab., Rept. LA-7344-MS, 84 p., scale 1:250,000; Natl. Tech. Inf. Serv., Rept. GJBX-138-78, 84 p.; U.S. Energy Research Develop. Adm., Rept. GJBX-138-78

1980a (and others) Uranium hydrogeochemical and stream sediment reconnaissance of the Dalhart NTMS quadrangle, New Mexico/Texas/Oklahoma, including concentrations of forty-two additional elements: Los Alamos Sci. Lab., Inf. Rept. LA-8008-MS, 108 p., 3 tables, 5 figs., 3 appendices, 6 sheets in pocket; U.S. Dept. Energy, Rept. GJBX-207-80

1980b (and others) Uranium hydrogeochemical and stream sediment reconnaissance of the Shiprock NTMS quadrangle, New Mexico/Arizona, including concentrations of forty-two additional elements: Los Alamos Natl. Lab., Rept. 7513, 194 p.; U.S. Dept. Energy, Rept. GJBX-143-80

1980c (and others) Uranium hydrogeochemical survey of well waters from an area around Pie Town, Catron County, west-central New Mexico, including concentrations of twenty-three additional elements: Los Alamos Natl. Lab., Rept. 8017, 43 p.; U.S. Dept. Energy, Rept. GJBX-23-81

Morgan, W. Jason see Crough an

see Crough and others, 1980

Morris, G. E.

see Tester, Morris, and others, 1979 Morris, W. A.

1979 (Bunker, M. E., and others) Hydrogeochemical and stream sediment reconnaissance of the National Uranium Resource Evaluation Program—semi-annual progress report April-September 1979—primarily for the Rocky Mountain States of New Mexico, Colorado, Wyoming, and Montana and the State of Alaska: Natl. Tech. Inf. Serv., Rept. GJBX-5-80, 11 p.

1979 (Bunker, M. E., and Steinhaus, D. W.) Hydrogeochemical and stream sediment reconnaissance of the National Uranium Resource Evaluation Program—October-December 1977—the Rocky Mountain States of New Mexico, Colorado, Wyoming, and Montana and the State of Alaska: Los Alamos Sci. Lab., Rept. 7175, 10 p.; Natl. Tech. Inf. Serv., Rept. GJBX-77-78, 10 p.

see Sharp and others, 1978

Mortensen, J. J.

1978 Hot dry rock—a new geothermal energy source: Energy, v. 3, no. 5, p. 639-644

Moss. M. E.

1978 (Lettemmaier, D. P., and Wood, E. F.) On the design of hydrologic data networks: Am. Geo-

phys. Union (EOS), Trans., v. 59, no. 8, p. 772-775 Mott, R. P., Jr.

1976 The relationship of microearthquake activity to structural geology for the region around Socorro, New Mexico: New Mexico Inst. Mining and Technology, Geophysics Open-file Rept. 7a, 67 p.

see Sanford, Mott, and others, 1977

Moyers, C. F.

see Kauffman and others, 1980

Muehlberger, William R.

1978 Frontal fault zone of northern Picuris Range, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 44-45, 1 fig.

1979a The Embudo fault between Pilar and Arroyo Hondo, New Mexico—an active intracontinental transform fault: New Mexico Geol. Soc., Guidebook

30th field conf., Santa Fe, p. 77-82, 5 figs.

1979b The areal extent of Cenozoic faulting in Trans-Pecos, Texas, *in* Cenozoic geology of the Trans-Pecos volcanic field of Texas, A. W. Walton, editor: Univ. Texas (Austin), Bureau Econ. Geology, Guidebook 19, p. 19-21

1978 (and Hawley, J. W.) Rio Grande Gorge to Rio Embudo, New Mexico, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 42-44, 45-56, 7 figs.

see Budding, Robertson, and others, 1979; and Hawley, Burroughs, and others, 1978

Mueller, Jerry

1978 Elephant Butte Dam and Reservoir, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 90-91, 1 fig.

Muir, Nancy J.

see Jacka, Barone, and others, 1980

Mukhopadhyay, Bimal

1976a (and Brookins, D. G.) Rb-Sr whole-rock geochronology and clay mineralogy of the Madera Formation near Albuquerque, New Mexico: Jour. Sed. Petrology, v. 46, no. 3, p. 680-688, 6 figs.

1976b (and Brookins, D. G.) Strontium isotopic composition of the Madera Formation (Pennsylvanian) near Albuquerque, New Mexico: Geochim. et Cosmochim. Acta, v. 40, no. 6, p. 611-616, 2 tables, 3 figs.

Munson, B. E.

see Toy and Munson, 1979

Murdock, James N.

1978 (and Jaksha, L. H.) Estimates of relative time terms and of the Pn velocity in central New Mexico, abs. in International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 63

1980 (and Jaksha, L. H.) Time-term solutions and corresponding data for the crustal structure of north-central New Mexico: U.S. Geol. Survey, Open-file

Rept. 80-2014, 40 p.

Murphy, Hugh D.
1976 Extracting energy from hydraulically fractured geothermal reservoirs (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 349

1978a Thermal stress cracking and enhancement of

heat extraction from fractured geothermal reservoirs: Natl. Tech. Inf. Serv., Rept. LA-UR-78-917, 4 p.; abs. in New Mexico Geology, 1979, v. 1, no. 2, p. 31 [not identical to 1978b]

1978b Thermal stress cracking and the enhancement of heat extraction from fractured geothermal reservoirs: Natl. Tech. Inf. Serv., Rept. LA-7235-MS, 19 p.; abs. in New Mexico Geology, 1979, v. 1, no. 3, p. 46 [not identical to 1978a]

1978 (Lawton, R. G., Tester, J. W., Potter, R. M., Brown, D. W., and Aamodt, R. L.) Preliminary assessment of a geothermal energy reservoir formed by hydraulic fracturing: Soc. Petroleum Engineers,

Jour., v. 17, no. 4, p. 317-326, 11 figs.

1980 (and others) Preliminary evaluation of the second hot dry rock geothermal energy reservoir—results of Phase 1, Run Segment 4: Los Alamos Natl. Lab., Rept. 8354–MS, 88 p.

1979 (and Tester, J. W.) Heat production from geothermal reservoir formed by hydraulic fracturing—comparison of field and theoretical results: Soc. Petroleum Engineers, 54th Ann. Fall Conf., p. 1-10 see Dennis, B. R., and Murphy, 1978

Murphy, John R.

1977 Seismic source functions and magnitude determination for underground nuclear detonations: Seismol. Soc. America, Bull., v. 67, no. 1, p. 135-158, 18 figs., 1 appendix

Murphy, Robert E.

1977a North Dagger Draw field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 88–89, 1 table, 1 fig.

1977b South Dagger Draw field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 90, 1 table

Murr, L. E.

1976 (and Wongwiwat, K.) Scanning electron microscope study of the effect of structure on the liquefaction of New Mexico coals: Electron Microscopy Soc. America, 34th Ann. Mtg., Proc., p. 622-623, 1 fig.

see Oliver, T., and Murr, 1977

Murthy, V. Rama

see Menzies and Murthy, 1980; and Williams, Susan, and Murthy, 1978, 1979

Mutschler, Felix E.

1978 (Finn, D. D., and Ludington, S.) Magmatism and related ore deposits of extensile continental environments—computer exercises in petrochemical pattern recognition and prediction, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 64-65

Myers, Donald A.

1977 Geologic map of the Scholle quadrangle, Socorro, Valencia, and Torrance Counties, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1412, scale 1:24,000

1976 (and McKay, E. J.) Geologic map of the north end of the Manzano Mountains, Tijeras and Sedillo quadrangles, Bernalillo County, New Mexico: U.S. Geol. Survey, Misc. Inv. Ser. I–968, scale 1:24,000

Mytton, James W.

1979 Preliminary geologic map of Chaco Canyon 1° by ½ ° quadrangle showing coal zones of Fruitland Formation, San Juan, Rio Arriba, and Sandoval Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1104, scale 1:100,000 [1980]

see Flores and Mytton, 1979; Schneider, Weide, and others, 1979; Scott, G. R., Mytton, and Schneider, 1980; Scott, G. R., O'Sullivan, and Mytton, 1980; Weide, Mytton, and Scott, 1979, 1980; Weide, Schneider, and others, 1979a,b; and Weide, Scott, and Mytton, 1980

Naert, K. A.

1980 (Wright, L. A., and Thornton, C. P.) Geology of the perlite deposits of the No Agua Peaks, Taos County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 162, 88 p., 2 tables, 33 figs.

Naeser, C. W.

1976 (and Forbes, R. B.) Variation of fission track ages with depth in two deep drill holes (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 353 see Izett and others, 1978; Manley and Naeser, 1977; and Marvin, Naeser, and Mehnert, 1978

Naff, R. L.

see MacMillan and others, 1976

Narsavage, R. J., Jr.

1979 Vanadinite and related lead-zinc minerals, north Magdalena district, Socorro County: Univ. New Mexico, New Mexico Minerals Symp., p. 11-14 Nash, John T.

1976 Fluid-inclusion petrology—data from porphyry copper deposits and applications to exploration: U.S. Geol. Survey, Prof. Paper 907–D, 16 p.

Nash, W. P.

see Trevena and Nash, 1978a, b

Nation, J. B.

see Ward, R. W., and Nation, 1979

Neal, James T.

1976 Pleistocene Lake Trinity, a sulfate basin in the northern Jornada del Muerto, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 1026

1978 Satellite sensing of pluvial lake basins (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 462

Needham, C. N.

1978a Boulder Mancos (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 248–250, 4 figs.

1978b Schmitz Torreon-Puerco (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 482-485, 5 figs.

Neese, D. G.

1979a Carbonate facies variation on Guadalupian shelf crest (upper Yates and lower Tansill Formations), Guadalupe Mountains, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 3, p. 501-502

1979b Facies mosaic of the upper Yates and lower Tansill Formations (Upper Permian), Walnut Canyon, Guadalupe Mountains, New Mexico: M.S. thesis, Univ. Wisconsin

1977 (and Schwartz, A. H.) Facies mosaic of the

upper Yates and lower Tansill Formations, Walnut and Rattlesnake Canyons, Guadalupe Mountains, New Mexico: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 1, p. 437-450

Neher, R. E.

1976 Soil survey of Mescalero-Apache area, New Mexico, northeastern Otero County: U.S. Dept. Agriculture, Soil Conserv. Serv., 79 p.

1976 (and Bailey, O. F.) Soil survey of White Sands Missile Range, New Mexico; parts of Otero, Lincoln, Doña Ana, Sierra, and Socorro Counties: U.S. Dept. Agriculture, Soil Conserv. Serv., 64 p.

1980 (and Buchanan, W. A.) Soil survey of Luna County, New Mexico: U.S. Dept. Agriculture, Soil Conserv. Serv., 80 p.

see Bulloch and Neher, 1980

Nelson, A. R.

see Miller, G. H., and Nelson, 1979

Nelson, D. W.

see Galloway, S. E., and Nelson, 1977

Nelson, Dale C.

see Lansford, Chaturvedi, and others, 1980

Nelson, R. E.

1978 (Klameth, L. C., and Nettleton, W. D.) Determining soil gypsum content and expressing properties of gypsiferous soils: Soil Sci. Soc. America, Jour., v. 42, no. 4, p. 659-661, 1 fig.

Nettleton, W. D.

see Nelson, R. E., and others, 1978

Newell, R. A.

see Loucks, T. A., and Newell, 1978

Newman, Gary W.

1979 (and Goode, H. D., editors) Basin and Range symposium and Great Basin field conference: Rocky Mtn. Assoc. Geol., Guidebook 1979 conf., 662 p.

New Mexico Bureau of Mines and Mineral Resources see U.S. Geological Survey and others, 1980

New Mexico Energy and Minerals Department

1979 Sixty-sixth annual report by the Energy and Minerals Department, Bureau of Mine Inspection, for the year ending December 31, 1978: New Mexico Energy and Minerals Dept., Bureau Mine Inspection, 65 p., 23 figs.

New Mexico Oil and Gas Conservation Commission

1977 Northwest New Mexico gas production increases: Western Oil Reporter, April, p. 65-66

New Mexico State Highway Department

1978 Geology and aggregate resources of New Mexico: New Mexico State Highway Dept. and U.S. Dept. Transportation, Federal Highway Admin., Rept. 7a, 282 p., 8 maps, 2 appendices

New Mexico Water Quality Control Commission

1976 Middle Rio Grande basin plan: New Mexico Water Quality Control Comm., 10 figs.

Newsom, M. M.

1978 (Barnett, J. H., Baker, L. E., Varnado, S. G., and Polito, J.) Geothermal well technology—drilling and completions program plan: Natl. Tech. Inf. Serv., Rept. SAND-77-1630; *abs. in* New Mexico Geology, 1979, v. 1, no. 3, p. 46-47

Newton, Carl A.

see Olsen, K. H., Keller, Stewart, and others, 1977

Nials, Fred L.

see Corbitt and others, 1977, 1978; and Varnell and others, 1976

Nichols, C. E.

1976 (and others) Northwest Texas pilot geochemical survey, National Uranium Resource Evaluation Program (NURE): U.S. Energy Research Develop. Adm., Rept. GJBX-60-76, 58 p.

Nichols, J.

1980 A simple thermodynamic model for estimating the solubility of H_2O in magmas: Contr. Mineralogy and Petrology, v. 74, no. 2, p. 211–220, 3 tables, 3 figs., 1 appendix

Nichols, Susan L.

1978 Age dates from other publications—list 2: Isochron/West, no. 21, p. 22-35 see Weimer and others, 1979

Nielsen, D. R.

see Van de Pol and others, 1977

Nielsen, Kent C.

1979 (Scott, T. E., Jr.) Precambrian deformational history of the Picuris Mountains, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 113–120, 1 table, 15 figs.

1980 (and Scott, T. E., Jr.) Polyphase folding and superimposed strain events, a model for basement fabrics near the Jemez lineament, north-central New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1120

Nielson, Richard L.

1978 Regional structure control for emplacement of Laramide prophyry copper systems, Arizona-New Mexico: Nevada Bureau Mines, Rept. 33, p. 49-55; Internat. Assoc. Genesis Ore Deposits, 5th symp., Program and Abs., p. 134

Nielson, T. W.

1978 Stratigraphy and microfacies analysis of the Colina Limestone (Lower Permian), Hidalgo County, New Mexico: M.S. thesis, Univ. Texas (El Paso)

Nishi, J. M.

see Watts, Alminas, Nishi, and Crim, 1978a-c; Watts, Hassemer, Nishi, and Siems, 1978; and Watts, Hassemer, Siems, and Nishi, 1978

Nodeland, Steve

1976 (and Cornell, W. C.) Microfossils of the Smeltertown formation stratotype (Cretaceous, Albian), Mount Cristo Rey, New Mexico, *in* Stratigraphy and structure of the Franklin Mountains: El Paso Geol. Soc., p. 87-89, 1 fig.

Noon, Patrick L.

1980 Surface to subsurface stratigraphy of the Dakota Sandstone (Cretaceous) and adjacent units along the eastern flank of the San Juan Basin, New Mexico and Colorado: M.S. thesis, Bowling Green State Univ., 133 p.

Norman, Carl E.

see Brautigam and Norman, 1980; and Peterson, H. W., and Norman, 1980

North, R. G.

1977 (and Frasier, C. W.) Analysis of seismic research observatory (SRO) data (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 6, p. 442-443

North, Robert M.

1979 Pegmatite mineralogy of the Petaca mining

district, New Mexico (abs.): Univ. New Mexico, New Mexico Minerals Symp., p. 5

see Eveleth and North, 1980

Northrop, Stuart A.

1976 New Mexico's earthquake history, 1849–1975, in Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 77–87, 5 tables, 9 figs.

1977 History of New Mexico Geological Society, 1947–1976: Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 11, pt. 1, p. 2012–2016, 2 tables, 2 figs.

1979 Some highlights in the history of New Mexico minerals: Univ. New Mexico, New Mexico Minerals Symp., 4 p.

see Elston and Northrop, 1976; Hoffman and Northrop, 1977; and Woodward and Northrop, 1976

Nowak, E. J.

1978 The migration of Eu through geologic media (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1224

Nozaki, Y.

1977 (DeMaster, D. J., Benninger, L. K., Lewis, D. M., Graustein, W. C., and Turekian, K. K.) Atmospheric Pb-210 fluxes determined from soil profiles (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 6, p. 396

1978 (DeMaster, D. J., Lewis, D. M., and Turekian, K. K.) Atmospheric Pb-210 fluxes determined from soil profiles (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 6, p. 563

Nuhfer, Edward B.

1979 Temporal and lateral variations in the geochemistry, mineralogy, and microscopy of seston collected in automated samplers from selected lakes in Ohio, Pennsylvania, and New Mexico: Ph.D. thesis, Univ. New Mexico, 390 p.

Nunes, H. P.

1978 (and Weaver, T. A.) Hydrogeochemical and stream sediment reconnaissance of the National Uranium Resource Evaluation Program—July-September 1977—the Rocky Mountain States of New Mexico, Colorado, Wyoming, and Montana and the State of Alaska: Los Alamos Sci. Lab., Rept. 6993, 14 p.; Natl. Tech. Inf. Serv., Rept. GJBX-27-78, 14 p.

Nye, Osborne B., Jr.

1978 (and LeMone, D. V.) Multilaminar growth in *Reptomulticava texana*, a new species of cyclostome bryozoa: Jour. Paleontology, v. 52, no. 4, p. 830-845, 3 pls., 2 tables, 5 figs.

Nyhan, J. W.

1978 (Hacker, L. W., Calhoun, T. E., and others) Soil survey of Los Alamos County, New Mexico: Los Alamos Sci. Lab., Rept. LA-6779-MS, 102 p.

1976 (Miera, F. R., and Peters, R. J.) Distribution of plutonium in soil particle size fractions of liquid effluent-receiving areas at Los Alamos: Jour. Environ. Quality, v. 5, no. 1, p. 50-56; Sel. Water Resources Abs., v. 9, no. 16, p. 52

see Hakonson, Nyhan, and Purtymun, 1976

Obradovich, John D.

see Izett and others, 1978

O'Brient, James D.

1980 Hypabyssal crystallization and emplacement of the rhyolitic Rabb Park complex, Grant County,

New Mexico: Ph.D. thesis, Stanford Univ., 250 p. see Jahns, McMillan, and others, 1978

O'Connor, G. A.

1977 (and Cull, C.) Minimizing the salt burden of Pecos River irrigation drainage water (abs.): Sel. Water Resources Abs., v. 10, no. 24, p. 110-111

Oglesby, T. W.

1979 (Meyers, W. J., and Lohmann, K. C.) Microdolomite-rich syntaxial cements—proposed meteoric-marine mixing zone phreatic cements from Mississippian limestones, New Mexico: Jour. Sed. Petrology, v. 49, no. 2, p. 670-676

Olander, Paul A., Jr.

1979 Authigenic mineral reactions in tuffaceous sedimentary rocks, Buckhorn, New Mexico: M.S. thesis, Univ. Wyoming

Olhoeft, G. R.

1978 Electrical properties of salt cored from Carlsbad, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-463, 5 p., 1 fig.

Oliver, Jack E.

1978 Exploration of the continental basement by seismic reflection profiling: Nature, v. 275, no. 5680, p. 485-488

1976 (and Kaufman, Sidney) Profiling the Rio Grande rift: Geotimes, v. 21, no. 7, p. 20–22, 4 figs.

1976 (Sanford, A. R., Chapin, C. E., and Kaufman, Sidney) Seismic reflection profiling of the deep basement—the Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 1035

see Brown, L. D., Allmendinger, and others, 1980; Brown, L. D., Chapin, and others, 1980; Brown, L. D., Kaufman, and Oliver, 1977; Brown, L. D., Krumhansl, Chapin, and others, 1979; Brown, L. D., Krumhansl, Cook, Kaufman, and others, 1978; Kaufman, S., and Oliver, 1977; Long, G. H., and others, 1977; Reilinger, Brown, and others, 1978, Reilinger and Oliver, 1976; Reilinger, Oliver, Brown, and others, 1979; Reilinger, Oliver, and others, 1979; Reilinger, Oliver, and others, 1976; Reilinger, Oliver, and others, 1976; Reilinger, Oliver, and others, 1978; Reilinger, Oliver, and others, 1978

Oliver, T.

1977 (and Murr, L. E.) An electron microscope study of asbestiform fiber concentrations in Rio Grande valley water supplies: Am. Water Works Assoc., Jour., v. 69, no. 8, p. 428-431; Pollution Abs., v. 9, no. 1, p. 45

Olsen, Clayton E.

1977 Uranium hydrogeochemical and stream sediment pilot survey of the Estancia Valley, Bernalillo, Santa Fe, San Miguel and Torrance Counties, New Mexico: Los Alamos Sci. Lab., Rept. LA-6650-MS, 32 p., 9 pls., 4 appendices; U.S. Energy Research Develop. Adm., Rept. GJBX-21-77

see Brookins and Olsen, 1977

Olsen, Kenneth H.

1979 The seismicity of north-central New Mexico with particular reference to the Cerrillos earthquake of May 28, 1918: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 65–75, 4 tables, 4 figs.

1976 (Cash, D. J., and Bridwell, R. J.) Seismicity of north-central New Mexico and its relationship to contemporary tectonics (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 615-616

1978 (and Chapin, C. E.) Program and abstracts, 1978 international symposium on the Rio Grande rift,

October 8-17, 1978, Santa Fe, New Mexico, U.S.A.: Los Alamos Sci. Lab., Rept. LA-7487-C, 105 p., 1 table, 4 figs.

1979 (Keller, G. R., and Stewart, J. N.) Crustal structure along the Rio Grande rift from seismic refraction profiles, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 127-143, 1 table, 8 figs.; *abs in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487-C, p. 65-66

1977 (Keller, G. R., Stewart, J. N., Homuth, E. F., Cash, D. J., and Newton, C. A.) A seismic refraction study of crustal structure in the central Rio Grande rift, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 12, p. 1184

1979 (and Stewart, J. N.) A generalized crustal model of the Rio Grande rift derived from synthetic seismogram modeling of refraction profiles (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 6, p. 298

see Sanford, Olsen, and Jaksha, 1979, 1980

Olson, A. B.

see Hackman and Olson, 1977; and Wyant and Olson, 1978

O'Neill, A. J.

see Vizcaino and O'Neill, 1977

O'Neill, F. Michael

1980 A rare fossil skeleton of *Camelops hesternus* from the Pleistocene of New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 494

O'Neill, J. Michael

1980a (and Mehnert, H. H.) Late Cenozoic physiographic evolution of the Ocate volcanic field, north-central New Mexico: U.S. Geol. Survey, Open-file Rept. 80-928, 58 p.

1980b (and Mehnert, H. H.) Late Cenozoic volcanism, uplift, and erosion, southern Sangre de Cristo Mountains, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 300

see Baltz and O'Neill, 1980a, b

Oppel, T. W.

1977 (Otte, Carel, Jr.; Pray, L. C.; and Thompson, Sam, III) Road log "E," High Rolls, New Mexico, through Fresnal Canyon to Tularosa, New Mexico, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 201-202

Ormiston, A.

1979 (and Babcock, L. C.) Follicucullus, new radiolarian genus from the Guadalupian (Permian) Lamar Limestone of the Delaware Basin: Jour. Paleontology, v. 53, p. 911-912

Orr, B. R.

see Mercer and Orr, 1977, 1979

Orr, C. D.

1979 (Keller, G. R., and Lunn, R. J.) A seismicity study of a Delaware Basin gas field, west Texas (abs.): Earthquake Notes, v. 50, no. 4, p. 7–8

Orr, D. G.

see Fischer and others, 1978, 1979

Ortiz, Nestor V.

1980 (Ethridge, F. G., and Sunada, D. K.) Computer model study of Colorado Plateau-type uranium

deposits (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 961

1980 (and others) Ground-water flow and uranium in Colorado Plateau: Ground Water, v. 18, no. 6, p. 596-606

see Ethridge, Ortiz, Granger, and others, 1980; and Ethridge, Ortiz, Sunada, and Tyler, 1980

Osborn, H. B.

1979 (Renard, K. G., and Simanton, J. R.) Dense networks to measure convective rainfall in the southwestern United States: Water Resources Research, v. 15, no. 6, p. 1701-1711

Osburn, Glenn R.

1978 Geology of the eastern Magdalena Mountains, Water Canyon to Pound Ranch, Socorro County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Technology, 159 p.; New Mexico Bureau Mines Mineral Resources, Open-file Rept. 113, 159 p., 35 figs., 3 appendices, 1 sheet; *abs. in* New Mexico Geology, 1979, v. 1, no. 3, p. 46

see Chapin, Chamberlin, Osburn, and others, 1978; Chapin, Jahns, and others, 1978; Chapin, Osburn, and others, 1979; Chapin, Sanford, and others, 1979; Hawley, Chapin, and Osburn, 1978; and Hawley, Lovejoy, and others, 1978

Osburn, JoAnne Cima

1980 Evaluation of scoria deposits in New Mexico: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1978-79, p. 75-80, 1 table, 2 figs. see also Cima, JoAnne

Osmond, J. K.

1980 (and Cowart, J. B.) Th²³⁰, U²³⁴, and U²³⁸ disequilibria in secondary uranium deposits (abs.): 26th Internat. Geol. Congr. Abs., v. 3, p. 982

Ossian, Clair R.

1976 Redescription of Megactenopetalus kaibabensis David 1944 (Chondrichthyes: Petalodontidae) with comments on its geographic and stratigraphic distribution: Jour. Paleontology, v. 50, no. 3, p. 392-397, 1 pl., 3 figs.

Osterhoudt, Walter J.

see Fassett, Black, and others, 1977

O'Sullivan, Robert B.

1977 Triassic rocks in the San Juan Basin of New Mexico and adjacent areas: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 139-146, 3 figs.

1980 Measured stratigraphic sections of the upper coal-bearing part of the Cretaceous Menefee Formation in the Kin Klishin Ruins quadrangle of northwestern New Mexico: U.S. Geol. Survey, Open-file Rept. 80-184, 34 p.

1979a (Scott, G. R., and Heller, J. S.) Preliminary geologic map of the Newcomb SE quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1026, scale 1:24,000

1979b (Scott, G. R., and Heller, J. S.) Preliminary geologic map of the Bisti Trading Post quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1075, scale 1:24,000

1979c (Scott, G. R., and Heller, J. S.) Preliminary geologic map of the Kirtland SW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1080, scale 1:24,000

1979d (Scott, G. R., and Heller, J. S.) Preliminary

geologic map of the Hogback South quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1093, scale 1:24,000

1979 (Scott, G. R., and Weide, D. L.) Preliminary geologic map of the Kin Klishin Ruins quadrangle, San Juan and McKinley Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1094, scale 1:24,000

see Scott, G. R., O'Sullivan, and Heller, 1979a-c; Scott, G. R., O'Sullivan, and Mytton, 1979; Strobell and others, 1980; and Weide, O'Sullivan, and Heller, 1979

Otte, Carel, Jr.

1980 Overview of geothermal energy developments (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 761

see Oppel and others, 1977

Ottolini, R. O.

1978 Stanford's COCORP seismic processing and migration of the Socorro lines (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1137

Owen, Donald E.

1980 San Juan Basin of New Mexico and Colorado, classic area of stratigraphic exploration (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 761-762

1977 (and Siemers, C. T.) Lithologic correlation of the Dakota Sandstone and adjacent units along the eastern flank of the San Juan Basin, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 179-183, 2 figs.

1978 (Walters, L. J., Jr.; Depetro, L. M.; and Turmelle, J. M.) Paleocurrents of Jackpile sandstone, Burro Canyon Formation, and Dakota Sandstone of San Juan Basin region, New Mexico, Colorado, and Utah (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 6, p. 1093

1976 (Walters, L. J., Jr.; Kostura, J. R.; and Grant, Keith) Paleocurrent analysis of Dakota and subjacent sandstones, San Juan Basin, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 60, no. 8, p. 1405

Owens, J. W.

see Purtymun, Peters, and Owens, 1980

Packard, Frank

see Pray and Packard, 1977

Padovani, Elaine R.

1977 Granulite facies xenoliths from Kilbourne Hole maar, New Mexico, and their bearing on deep crustal evolution: Ph.D. thesis, Univ. Texas (Dallas), 172 p.; Dissert. Abs. Internat., v. 38, no. 3, p. 1110-B

1976 (and Carter, J. L.) Labradorite anorthosite from south-central New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 338

1977 (and Carter, J. L.) Aspects of the deep crustal evolution beneath south-central New Mexico, *in* The Earth's crust—its nature and physical properties, J. G. Heacock, editor: Am. Geophys. Union, Geophys. Mon. 20, p. 19-55

1978a (and Carter, J. L.) The lower crust beneath Kilbourne Hole, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 4, p. 392

1978b (and Carter, J. L.) Deep crustal evolution beneath south-central New Mexico—constraints on the geothermal gradient from xenolithic assemblages,

abs. in International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 66-67

see Hart, S. R., Padovani, and Richardson, 1980; Hart, S. R., Padovani, and Roden, 1979; James and others, 1980a,b; Richardson, S. H., and others, 1980; Wasilewski and Padovani, 1980; and Wilshire and others, 1977

Page, Gordon B.

see Anderson, O. J., Page, and Arnold, 1977; and Arnold, Foster, and others, 1976

Pahwa, S. B.

see Balestri and others, 1979

Pallister, J. S.

see Lipman, Pallister, and Sargent, 1979

Palmer, A. N.

see Oueen and others, 1979

Palmer, M. V.

see Queen and others, 1979

Parchman, Mark A.

see Woodward, Parchman, and others, 1979

Park, Sam-Kuen

see Herrmann, Dewey, and Park, 1980; and Herrmann and Park, 1979

Parker, John M.

1977 (Riggs, E. A., and Fisher, W. L.) Oil and gas potential of the San Juan Basin: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 227-234, 2 tables, 6 figs.

Parker, Lee R.

see Tidwell, Bunderson, and Parker, 1980

Parker, Mark D.

1980 (and Jiracek, G. R.) Progress toward evaluating the geothermal resource in the Albuquerque, New Mexico, area: Geothermal Resources Coun., Trans., v. 4, September, p. 229–232, 5 figs.

Parks, James M.

1976a New evidence for ecologic reef origin of Dry Canyon Late Pennsylvanian bioherms, Sacramento Mountains, south-central New Mexico (abs.): Geol. Soc. America Abs. with Programs v. 8, no. 5, p. 617

Soc. America, Abs. with Programs, v. 8, no. 5, p. 617 1976b Summary of evidence for ecologic reef origin of Dry Canyon Late Pennsylvanian bioherms, Sacramento Mountains, south-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 1042

1977a Origin of early vuggy porosity in carbonatemudbank buildups, Pennsylvanian and Permian, Sacramento Mountains, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 5, p. 819–820

1977b Paleoecological evidence on the origin of the Dry Canyon Pennsylvanian bioherms, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 27-41, 4 pls.

1977c Plate-shaped calcareous algae in Late Paleozoic rocks of midcontinent, abs. in Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 163

1977d Evolution of the Holder Formation Dry Canyon biohermal complexes, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 164–166, 2 figs.

Parry, William T.

see Jacobs, D. C., and Parry, 1979

Patterson, E. D.

1978 (Curtis, N. L., and DeCicco, D. A.) Leasable mineral and waterpower land classification map of the Gallup quadrangle, New Mexico, Arizona: U.S. Geol. Survey, Open-file Rept. 78–477, scale 1:250,000

1976 (and Renner, J. L.) Selected geothermal resources assessment data—hydrothermal connection systems in New Mexico: Natl. Tech. Inf. Serv., Rept. PB-250-377, p. 281-291

see Banaszynski and others, 1979; DeCicco and Patterson, 1979a-d, 1980a-h; DeCicco, Patterson, and Lutz, 1978a-d, 1979, 1980; DeCicco, Patterson, and Morgan, 1980; DeCicco, Patterson, and Robin-

son, 1980; and DeCicco, Patterson, and Yamamoto, 1980

Patterson, R. C.

see Lansford, Chaturvedi, and others, 1980

Paul Weir Company

1976 Mining cost estimates, typical mines (hypothetical) strip and underground, State of New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 78, 26 p., 10 tables

Pavne, Myron W.

1976 Basinal sandstone facies, Delaware Basin, west Texas and southeast New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 60, no. 4, p. 517–527, 3 tables, 11 figs.

1979 Submarine-fan channel depositional processes in the Permian Bell Canyon Formation, west Texas and southeast New Mexico, in Guadalupian Delaware Mountain Group of west Texas and southeast New Mexico, N. M. Sullivan, editor: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., p. 96-103

Pearson, Christopher F.

1980 (Albright, J. N., Homuth, E. F., Bridwell, R. J., and Potter, R. M.) The relationship between high pore pressures and seismicity at the Fenton Hill, New Mexico, hot dry rock geothermal site (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1051–1052

Peck, Stewart B.

see Kukalova-Peck and Peck, 1976

Pedersen, Jens

1980 A magnetotelluric investigation of the deep electrical structure of the Rio Grande rift and adjacent tectonic provinces: Ph.D. thesis, Brown Univ., 325 p.

1979 (Alvarez, L. J., and Hermance, J. F.) 1-D, 2-D, and 3-D distortion of telluric-magnetotelluric fields in the Rio Grande rift and Colorado Plateau (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 46, p. 811

1979 (and Hermance, J. F.) Upper mantle structure beneath the Colorado Plateau as determined from magnetotelluric measurements (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 243

see Hermance and Pedersen, 1978, 1980

Pelley, C. R.

1978 Utilization characteristics of blending eastern and western coals: Mining Engineering, v. 30, no. 1, p. 64-71, 1 table, 14 figs.

Pense, G. M.

1977 The volcanic stratigraphy of the Banco Bonito vitrophyre—a petrochemical study of a rhyolite lava flow: M.S. thesis, Texas Christian Univ.

Pepin, R. O.

see Saito, Menzies, and others, 1978

Perkins, Betty L.

1979 An overview of the New Mexico uranium industry: New Mexico Energy and Minerals Dept., 147 p., 48 tables, 10 figs., 5 appendices

1980 Uranium, *in* New Mexico's energy resources '79, E. C. Arnold and J. M. Hill, compilers: New Mexico Bureau Mines Mineral Resources, Circ. 172, p. 39-48, 19 tables

Perkins, Priscilla C.

see Ehrenberg and Perkins, 1977

Perry, D. G.

see Isaacson and Perry, 1977

Perry, Frank V.

see Baldridge, Perry, and Gladney, 1980

Peterman, Z. E.

see Barker, F., Arth, and others, 1976

Peters, G. L.

see Larkin and others, 1980

Peters, R. J.

see Nyhan and others, 1976; Purtymun, Peters, and Owens, 1980; and Purtymun, Peters, and Stoker, 1980

Peterson, Donald L.

see Eaton, Peterson, and Webring, 1977; Eaton, Peterson, Webring, and Ratte, 1976; and Ratte Gaskill, and others, 1979

Peterson, Donald N.

1979 Preliminary results from a paleomagnetic investigation of Upper Permian rocks from the U.S. Southwest (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 237

Peterson, Fred

1977 (and Kirk, A. R.) Correlation of the Cretaceous rocks in the San Juan, Black Mesa, Kaiparowits and Henry Basins, southern Colorado Plateau: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 167-178, 4 figs., 2 appendices

Peterson, Harry W.

1979 Structural and petrological relationships of the Bear Mountain intrusive, Silver City Range, Grant County, New Mexico: M.S. thesis, Univ. Houston

1980 (and Norman, C. E.) Structural and petrological relationships of the Bear Mountain intrusive, Silver City Range, Grant County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 300-301

Peterson, R. J.

1980 Geology of pre-Dakota uranium geochemical cell, sec. 13, T. 16 N., R. 17 W., Church Rock area, McKinley County, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 131-138, 13 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 16-17 *see* Smith, D. A., and Peterson, 1979, 1980

Peterson, Stephen L.

1977 Geology of the Apache no. 2 mining district,

Hidalgo County, New Mexico: M.S. thesis, Univ. New Mexico, 86 p.

see Deal, Elston, and others, 1978

Pettitt, Roland A.

1976 Water-quality monitoring—ground water, *in* Environmental monitoring for the hot dry rock geothermal energy development project: Los Alamos Sci. Lab., Rept. LA-6504-SR, p. 23-27

1977 Los Alamos hot dry rock geothermal energy project: Geothermal Resources Coun., Ann. Mtg., Trans., p. 241-244

1978 Testing, planning, and redrilling of geothermal test hole GT-2, phases IV and V: Los Alamos Sci. Lab., Prog. Rept. LA-7586-PR, 60 p., 4 tables, 26 firs

1979 Completion of hot dry rock geothermal well systems: Soc. Petroleum Engineers, 54th Ann. Fall Conf., p. 1-7

1978a (and Tester, J. W.) The development of hot dry rock resources, *in* Geothermal environmental seminar '78, F. L. Tucker, editor: Kelseyville, California, Environ. Syst. and Serv., p. 140–147

1978b (and Tester, J. W.) Development of hot dry rock resources: Natl. Tech. Inf. Serv., Rept. LA-UR-1336, 11 p.; *abs. in* New Mexico Geology, 1979, v. 1, no. 2, p. 31

1978 (and West, F. G.) Environmental monitoring program for the hot dry rock geothermal project, Fenton Hill site, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 471

see Balagna, West, and others, 1977; Charles, West, and others, 1977; Dennis, B. R., Miles, and others, 1978; and Laughlin, West, and others, 1977

Petty, David M.

1979 Geology of the southeastern Magdalena Mountains, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 106, 174 p., 25 figs., 2 sheets; M.S. thesis, New Mexico Inst. Mining and Tech., 174 p.

Phelps, David W.

1979 (Blanchard, D. P., and others) Rare-earth geochemistry of the Raton-Clayton volcanic field, northeast New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 495

1980 (Blanchard, D. P., and Stormer, J. C., Jr.) Apatite and hornblende REE distribution coefficients in a mafic dacite and implications for the role of apatite fractionation in the genesis of siliceous rocks (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 498

Phillips, C. A.

see Styron and others, 1979

Phinney, D.

1978 (Tennyson, J., and Frick, U.) Xenon in CO_2 well gas revisited: Jour. Geophys. Research, v. 82, no. B5, p. 2313–2319

Picard, M. Dane

1980 Petroleum occurrences in nonmarine rocks (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 764

Pickett, G. R.

see Keller, G. V., Grose, and Pickett, 1978

Pierson, Charles T.

1977 (and Green, M. W.) Factors controlling localization of uranium deposits in the Dakota Sandstone,

Gallup and Ambrosia Lake mining districts, McKinley County, New Mexico: U.S. Geol. Survey, Openfile Rept. 77-766, 62 p., 1 fig., 1 pl., 6 photos

1980 (and Green, M. W.) Factors that localized uranium deposition in the Dakota Sandstone, Gallup and Ambrosia Lake mining districts, McKinley County, New Mexico: U.S. Geol. Survey, Bull. 1485, 31 p. see Green and Pierson, 1977; and Ridgley and others, 1978

Pillmore, Charles L.

1976a Road log from Raton to Underwood Lakes through the Raton coal field via the York Canyon mine, Vermejo Park and Gold Creek: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 25-47

1976b Road log from Raton to Adams and Bartlett Lakes, Vermejo Park, New Mexico, through Trinidad coal field and Tercio anticline, Colorado; return via Van Bremmer Canyon and Colfax, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 49-69

1976c Deflation origin of Adams and Bartlett Lake basins, Vermejo Park, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 121–124, 8 figs.

1976d Commercial coal beds of the Raton coal field, Colfax County, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 227–247, 11 tables, 12 figs., appendix

1976e The York Canyon coal bed: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 249–251, 7 figs.

1980a 1980 Romocoal field trip—generalized first day road log—from Denver south through Castle Rock, Colorado Springs, Pueblo, and Trinidad, Colorado, to Raton, New Mexico, in Proceedings of the fourth symposium on the geology of Rocky Mountain coal, L. M. Carter, editor: Colorado Geol. Survey, Resource Ser. 10, p. 111-112

1980b 1980 Romocoal field trip—second day road log—from Raton to Vermejo Park through the Raton coal field via the York Canyon mine, *in* Proceedings of the fourth symposium on the geology of Rocky Mountain coal, L. M. Carter, editor: Colorado Geol. Survey, Resource Ser. 10, p. 113–117

1976 (and Eicher, D. L.) Lower part of the marine Cretaceous at Gold Creek, Vermejo Park, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 171-176, 4 figs.

1976 (and Hatch, J. R.) Geochemical data on selected coal beds, Raton coal field, Colfax County, New Mexico: U.S. Geol. Survey, Open-file Rept. 76–542, 23 p., 8 tables, 1 fig.

1976 (and Maberry, J. O.) Depositional environments and trace fossils of the Trinidad Sandstone, southern Raton Basin, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 191-195, 9 figs.

1976 (and Scott, G. R.) Pediments of the Vermejo Park area, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 111-120, 1 table, 12 figs.

see Bohor and Pillmore, 1976

Pinzon Lizarraga, Santiago

1978 A non-linear lumped-parameter model for the

Mesilla Valley, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech.

Piper, A. M.

1974 The four-township study area near Carlsbad, New Mexico—vulnerability to future subrosion: Union Carbide Corp., Office Waste Isolation, Rept. Y/OWI/SUB-3745/2, 31 p.

Pitt, William D.

1980 San Andres Formation, east-central New Mexico (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 49-50

Pittman, E. D.

1977 (and Wilson, M. D.) Authigenic clays in sandstones—recognition and influence on reservoir properties and paleoenvironmental analysis: Jour. Sed. Petrology, v. 47, no. 1, p. 3-31

Place, Jeannie T.

1980 (Della Valle, R. S., and Brookins, D. G.) Mineralogy and geochemistry of Mariano Lake uranium deposit, Smith Lake district, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 172–184, 3 tables, 26 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 16; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 692

Planner, Harry N.

1980 (and others) Uranium hydrogeochemical and stream sediment reconnaissance data release for the Socorro NTMS quadrangle, New Mexico, including concentrations of forty-two additional elements: Los Alamos Sci. Lab., Rept. 8001, 145 p.; U.S. Dept. Energy, Rept. GJBX-12-81

Polito, J.

see Newsom and others, 1978

Pollard, D. D.

1976 (and Delaney, P. T.) On the form and growth of large en echelon fractures in rock (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 12, p. 1006

1978 (and Delaney, P. T.) Basaltic subvolcanic conduits near Shiprock, New Mexico—dike propagation and dilation (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1212–1213

see Delaney and Pollard, 1978

Popp, Carl J.

1980 (and Laquer, F.) Trace metal transport and partitioning in the suspended sediments of the Rio Grande and tributaries in central New Mexico: Chemosphere, v. 9, no. 2, p. 89-98

see Brandvold, L. A., and others, 1980; Riese, A. C., and Popp, 1980; and Smith, R. W., and Popp, 1980

Porter, D. A.

see Wentworth and others, 1979, 1980

Porter, J. Robert

see Everett and others, 1978

Porter, L. S. W.

see Harris and Porter, 1980

Porter, Robert B.

1977 Developments in west Texas and eastern New Mexico in 1976: Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 8, p. 1208–1215, 5 tables, 1 fig.

Potter, Jarod M.

1978 Experimental permeability studies at elevated

temperature and pressure of granitic rocks: M.S. thesis, Univ. New Mexico, 101 p.; Natl. Tech. Inf. Serv., Rept. LA-7224T, 109 p.; *abs. in* New Mexico Geology, 1979, v. 1, no. 3, p. 46

1976 (Balagna, J. P., and Charles, R. W.) Permeability of a biotite monzogranite at elevated temperatures (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 353

Potter, Loren D.

see Gosz and others, 1978, Louderbough and Potter, 1978; and Marple and others, 1978

Potter, Robert M.

1976 Characteristics of seismic events associated with hydraulic fracturing (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 349

see Aki and others, 1977; Murphy, H.D., and others, 1978; and Pearson and others, 1980

Powers, Dennis W.

1979 Justification, *in* Basic data report for drillhole WIPP 13: Sandia Lab., Rept. SAND79-0273, appendix A, p. A1-A9

1980 Geologic processes in evaporites in the northern Delaware Basin (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 50

1979a (and Shaffer, S. E.) Introduction, *in* Basic data report for drillhole WIPP 25: Sandia Lab., Rept. SAND79-0279, p. 2-3

1979b (and Shaffer, S. E.) Introduction, *in* Basic data report for drillhole WIPP 27: Sandia Lab., Rept. SAND79-0281, p. 2-3

1979c (and Shaffer, S. E.) Introduction, in Basic data report for drillhole WIPP 29: Sandia Lab., Rept. SAND79-0283, p. 2-3

1979 (and Weart, W. D.) Introduction, in Basic data report for drillhole WIPP 13: Sandia Lab., Rept. SAND79-0273, p. 2-3

see Anderson, R. Y., and Powers, 1978; Reilinger, Brown, and Powers, 1980; and Weart and Powers, 1980

Powers, R. S.

1976 Geology of the Summit Mountains and vicinity, Grant County, New Mexico, and Greenlee County, Arizona: M.S. thesis, Texas Tech Univ., 107 p.

Powers, W. L.

see Babcock, R. E., and others, 1978

Pratt, H. R.

1976 (and Simonson, E. R.) Geotechnical studies of geothermal reservoirs: Natl. Tech. Inf. Serv., Rept. TID-28703, 56 p.; *abs. in* New Mexico Geology, 1980, v. 2, no. 1, p. 13

Pratt, Walden P.

see Henkes and others, 1976

Pray, Lloyd C.

1977a Stratigraphic and structural features of the Sacramento Mountain escarpment, New Mexico, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 73-89, 2 figs.

1977b Alamogordo to Alamo Canyon and the western Sacramento Mountains escarpment, field guide and road log "A," in Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 111-121, 124-134, 11 figs.

1977c Field guide and road log "A," supplemental field guide to southernmost Sacramento Mountains escarpment—Agua Chiquita and Nigger Ed Canyons, in Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 122–123, 135, 1 fig.

1977d Alamogordo to Indian Wells, reentrant field guide and road log "B," in Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 137-138, 1 fig.

1977e Field guide and road log "C"—from the Tularosa Basin up the Sacramento Mountains escarpment to High Rolls-Mountain Park via U.S. 82, in Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 157-161, 168, 171-174, 178-183, 7 figs.

1977f Field guide and road log "D," High Rolls south to Four Bits Peak, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 184–200, 10 figs.

1977g Road log "G," High Rolls to Cloudcroft, in Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 214–216

1977 (and Esteban, M., editors) Upper Guadalupian facies, Permian reef complex, Guadalupe Mountains, New Mexico and west Texas: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Rept. 77–16, v. 2, 194 p.

1977 (and Packard, Frank) Road log "F," West Side Road and crest road loop, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p., 210-213

1977 (and Sarg, J. F.) Road log, Carlsbad to Rocky Arroyo and return: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 2, p. G15-G163

1977 (and Schwartz, A. H.) Locality guide, stop II, mouth of Walnut Canyon, outer shelf facies, Yates and Tansill Formations: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 2, p. G41-G46

see Babcock, J. A., and others, 1977a,b; Delgado and Pray, 1977; Esteban and Pray, 1976, 1977a-e; and Oppel and others, 1977

Prelat, Alfredo

see Inglis and others, 1978

Prescott, W. H.

see Savage, J. C., Lisowski, and Prescott, 1979; and Savage, J. C., Lisowski, and others, 1980

Preslar, Tony

1976 Geophysical investigations at the Lightning Dock KGRA (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 619

Presley, Mark W.

see Handford and others, 1980

Presser, T. S.

see Mariner and others, 1977

Preston, Charles D.

1977a Shoebar Strawn north field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 178–179, 1 table, 1 fig.

1977b Shoebar Wolfcamp north field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 180–181, 1 table, 1 fig.

Preston, R. E.

1979 Late Pleistocene cold-blooded vertebrate faunas from the mid-continental United States—I., Reptilia—Testudines, Crocodilia: Univ. Michigan, Mus. Paleontology, Papers on Paleontology 19, 53 p.

Prigmore, Susan M.

1978 Mineralogical, petrological, and geochemical aspects of Pleistocene low temperature rhyolites of the Tewa Group, Jemez Mountains, New Mexico: Ph.D. thesis, Southern Methodist Univ., 93 p.; Dissert. Abs. Internat., 1979, v. 39, no. 7, p. 3205-B

Pritchard, Roy L.

1978a Blanco Mesaverde (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 222-224, 3 figs.

1978b Crouch Mesa Mesaverde (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 272-273, 3 figs.

1978c Flora Vista Mesaverde (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 298–299, 3 figs.

1978d Gonzales Mesaverde (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 325–326, 3 figs.

1978e Knickerbocker Buttes Gallup (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 355-356, 1 fig.

1978f Otero Point Lookout (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 447-448, 3 figs.

1978g Torreon Mesaverde (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 532-533, 2 figs.

1978h Torreon Mesaverde (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 534, 1 fig.

1978i Venado Mesaverde (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 548-549, 3 figs.

Probandt, W. T.

1977 Mescalero north (Cisco) field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 134–137, 1 table, 2 figs.

Proffett, John M., Jr.

1978 Ore deposits of the western United States—a summary (abs.): Internat. Assoc. Genesis Ore Deposits, 5th symp., Program and Abs., p. 147

Pronold, Thomas G.

1979 The one-atmosphere phase relations of three volcanic rocks from the Taos Plateau volcanic field, north-central New Mexico: M.S. thesis, Southern Methodist Univ.

see Dungan and others, 1978

Puchlik, Kenneth P.

see Leach and Puchlik, 1976

Puffer, J. H.

see Buscemi and Puffer, 1978

Purtymun, William D.

1977a Hydrologic characteristics of the Los Alamos well field with reference to the occurrence of arsenic in well LA-6: Los Alamos Sci. Lab., Rept. LA-7212-MS, 63 p.

1977b Water supply at Los Alamos during 1976: Los Alamos Sci. Lab., Rept. LA-6814-PR, 28 p.; Sel. Water Resources Abs., 1978, v. 11, no. 4, p. 25-26

1978 Water supply at Los Alamos during 1977: Los Alamos Sci. Lab., Rept. LA-7436-MS, 38 p.

1980 Water supply at Los Alamos during 1979: Los Alamos Natl. Lab., Rept. LA-8504-PR, 44 p.

1980 (and Adams, W. H.) Geohydrology of Bandelier Natl. Monument, New Mexico: Los Alamos Natl. Lab., Rept. LA-8461-MS, 25 p.

1977 (Adams, W. H., Stoker, A. K., and West, F. G.) Water quality in vicinity of Fenton Hill site, 1975 (abs.): Sel. Water Resources Abs., v. 10, no. 22, p. 53

1977 (Buchholz, J. R., and Hakonson, T. E.) Chemical quality of effluents and their influence on water quality in a shallow aquifer (abs.): Sel. Water Resources Abs., v. 10, no. 14, p. 36-37

1977 (Dreesen, D. R., and Wienke, C. L.) Geology and hydrology in the vicinity of the inactive uranium-mill tailings pile, Ambrosia Lake, New Mexico: Los Alamos Sci. Lab., Rept. LA-6839-MS, 36 p.

1980 (Ferenbaugh, R. W., and others) Water quality in the vicinity of Fenton Hill site, 1978: Los Alamos Sci. Lab., Rept. LA-8217-PR, 21 p.

1976 (and others) Water quality in vicinity of Fenton Hill site, 1975: Los Alamos Sci. Lab., Rept. LA-6511-MS, 21 p.

1980 (and others) Water quality in the vicinity of Fenton Hill, 1979: Los Alamos Natl. Lab., Rept. LA-8424-PR, 21 p.

1980 (Peters, R. J., and Owens, J. W.) Geohydrology of White Rock Canyon of the Rio Grande from Otowi to Frijoles Canyon: Los Alamos Sci. Lab., Rept. 8635, 15 p.

1980 (Peters, R. J., and Stoker, A. K.) Radioactivity in soils and sediments in and adjacent to the Los Alamos area, 1974–1977: Los Alamos Sci. Lab., Rept. LA-8234-MS, 17 p.

1980 (Rogers, M. A., and Wheeler, M. L.) Sampling for migration from a solid radioactive waste disposal pit (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 32, p. 572

1978 (Stoker, A. K., Adams, W. H., and others) Water quality in the vicinity of Fenton Hill site, 1977: Los Alamos Sci. Lab., Rept. 7408, 16 p.

see Budding and Purtymun, 1979; Cushman and Purtymun, 1976; Hakonson, Nyhan, and Purtymun, 1976; and West, F. G., and Purtymun, 1976

Putnam, Bordon R., III

1980 Fluid inclusion and microchemical analysis of the Hansonburg Mississippi Valley type ore deposits in central New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech.; abs. in New Mexico Geology, v. 2, no. 3, p. 48

Pve. D. S.

see Messer and others, 1978

Queen, J. Michael

1980 Evidence of a sea level low stand during the Guadalupian, Upper Permian rocks of the Guadalupe Mountains, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 504-505

1979 (Palmer, A. N., and Palmer, M. V.) Carbonate replacement of sulfate—new mechanism for porosity generation in carbonate rocks marginal to evaporite basins (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 3, p. 512-513

Quillin, Robert

1976 (and Combs, Jim) Microearthquake survey of the Radium Springs KGRA, south-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 1055

Rabinowitz, D. Dan

1977a (Gross, G. W., and Holmes, C. R.) Environmental tritium as a hydrometeorologic tool in the Roswell Basin, New Mexico—pt. I, tritium input function and precipitation-recharge relation: Jour. Hydrology, v. 32, no. 1–2, p. 1–17, 4 tables, 4 figs.

1977b (Gross, G. W., and Holmes, C. R.) Environmental tritium as a hydrometeorologic tool in the Roswell Basin, New Mexico—pt. II, tritium patterns in ground water: Jour. Hydrology, v. 32, no. 1–2, p. 19–33, 5 figs.

1977c (Gross, G. W., and Holmes, C. R.) Environmental tritium as a hydrometeorologic tool in the Roswell Basin, New Mexico—pt. III, hydrologic parameters: Jour. Hydrology, v. 32, no. 1–2, p. 35–46, 1 table, 2 figs.

Ragland, Paul C.

see Cannon, R. P., and Ragland, 1977; and Lindley and others, 1980

Rai, Dhanput

see Gould and others, 1977

Ramberg, Ivar B.

1978 Comparison of the Oslo graben with the Rio Grande rift, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 68-71, 1 fig.

1978 (Cook, F. A., and Smithson, S. B.) Structure of the Rio Grande rift in southern New Mexico and west Texas based on gravity interpretation: Geol. Soc. America, Bull., v. 89, no. 1, p. 107–123, 2 tables, 14 figs.

Ramey, Joe D.

1977 New Mexico: Oil and Gas Compact Bull., v. 36, no. 1, p. 38

1978 New Mexico: Oil and Gas Compact Bull., v. 37, no. 1, p. 33

1979 New Mexico: Oil and Gas Compact Bull., v. 38, no. 1, p. 38

Ramos-Arras, M.

see Chaturvedi and Ramos-Arras, 1979

Rathbun, Ronald E.

1978 (and Kennedy, V. C.) Transport and disper-

sion of fluorescent tracer particles for the dune-bed condition, Atrisco Feeder Canal near Bernalillo, New Mexico: U.S. Geol. Survey, Prof. Paper 1037, 95 p., 1 pl.; Sel. Water Resources Abs., v. 11, no. 22, p. 16

Ratkevich, Ron P.

1976 Dinosaurs of the Southwest: Albuquerque, Univ. New Mexico Press, 115 p.

1978 (and LaFon, N.) Field guide to New Mexico fossils: Alamogordo, Dinograph Southwest, Inc., 84 p.

Ratte, James C.

1977 Geologic map of the Mogollon quadrangle, Catron County, New Mexico: U.S. Geol. Survey, Open-file Rept. 77–324, scale 1:24,000

1978a Cliff to U.S. 180 via Rain Creek Mesa and Moon Ranch on N.M. 211 and 293 and Forest Road 147, *in* Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 83-86, 2 figs.

1978b Gila mining district, *in* Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 86-87

1980 Geologic map of the Saliz Pass quadrangle, Catron County, New Mexico: U.S. Geol. Survey, Misc. Field Study Map MF-1203, scale 1:24,000

1978 (and Finnell, T. L.) Third day, road log from Silver City to Reserve via Glenwood and the Mogollon mining district, *in* Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 49-63, 13 figs.

1975 (and Gaskill, D. L.) Reconnaissance geologic map of the Gila Wilderness study area, southwestern New Mexico: U.S. Geol. Survey, Misc. Inv. Ser., Map I-886, 2 sheets, scale 1:62,500 [1976]

1979 (Gaskill, D. L., Eaton, G. P., Peterson, D. L., Stotelmeyer, R. B., and Meeves, H. C.) Mineral resources of the Gila Primitive Area and Gila Wilderness, Catron and Grant Counties, New Mexico: U.S. Geol. Survey, Bull. 1451, 229 p., sheets in case

1979 (and Grotho, Terry) Chemical analyses and norms of 81 volcanic rocks from part of the Mogollon-Datil volcanic field, southwestern New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1435, 36 p.

see Eaton, Peterson, Webring, and Ratte, 1976

Rautman, Christopher A.

1976 Uranium in New Mexico, *in* Legislative energy report, taxes, and revenues: New Mexico Legislative Energy Comm., v. 2, pt. II, p. 26-40

1977a Uranium industry of New Mexico: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1976–77, p. 55–65, 4 tables, 7 figs.

1977b The uranium industry in New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 74, 24 p., 3 tables, 7 figs.

1980 (compiler) Geology and mineral technology of the Grants uranium region 1979: New Mexico Bureau Mines Mineral Resources, Mem. 38, 400 p., 66 tables, 483 figs.

1977 (and Kottlowski, F. E.) Relation of costs and taxes for New Mexico's uranium production: New

Mexico Bureau Mines Mineral Resources, Open-file Rept. 77, 12 p., 10 figs.

see Brookins and Rautman, 1978; Brookins, Rautman, and Corbitt, 1978; Siemers, W. T., Hawley, and others, 1978; and Wright, R. P., and others, 1977

Rawson, Richard R.

1976 Sabkha environment—new frontier for uranium exploration (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 60, no. 8, p. 1406–1407

1980 Uranium in Todilto Limestone (Jurassic) of New Mexico—example of a sabkha-like deposit, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 304–312, 15 figs.; also in Uranium in sedimentary rocks—application of the facies concept to exploration, C. E. Turner-Peterson, editor, Soc. Econ. Paleontologists and Mineralogists, Rocky Mtn. Sec., p. 127–144; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 17; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 692

Raza, S. Mahmood

see Lucas and Raza, 1979

Rea, Amadeo M.

1980 Late Pleistocene and Holocene turkeys in the Southwest, *in* Papers in avian paleontology honoring Hildegarde Howard, Kenneth E. Campbell, Jr., editor: Los Angeles County Museum Natural History, Contrib. in Science 330, p. 209-224

Rea, Kenneth H.

1977 Environmental investigations associated with the LASL hot dry rock geothermal energy development project: Los Alamos Natl. Lab., Rept. LA-6972, 23 p.

see Gutschick and Rea, 1978

Read, C. B.

see Ash and Read, 1976

Reddy, George

see Scott, G. L., and Reddy, 1977

Reddy, I. K.

see Jiracek, Ander, and Reddy, 1978

Reed, E. L.

1977 Ground-water evaluation, McKinley County, New Mexico: consult. rept. to Yah-Ta-Hey, Inc., 25 p.

Reese, Douglas L.

1976 Developments in Four Corners-intermountain area in 1975: Am. Assoc. Petroleum Geologists, Bull., v. 60, no. 8, p. 1239–1242, 2 tables, 1 fig.

Reese, Val R.

1978a Escrito Gallup (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 287–289, 4 figs.

1978b Five Lakes Dakota (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 290-291, 4 figs.

1978c Lybrook Gallup (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 395–397, 4 figs.

1978d Media Entrada (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 410-412, 4 figs.

1978e Media Entrada, southwest (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and

others, editors: Four Corners Geol. Soc., p. 413-415, 4 figs.

1978f Media Gallup (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 416-417, 4 figs.

Reeves, Corwin C., Jr.

1976 Quaternary stratigraphy and geologic history of the southern High Plains, Texas and New Mexico, in Quaternary stratigraphy of North America, W. C. Mahaney, editor: Stroudsberg, Pennsylvania, Dowden, Hutchinson, and Ross, Inc., p. 213–234

1977 Uranium potential of Ogallala Group, southern High Plains, west Texas and eastern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 68

1978 Uranium movement in Ogallala aquifer, west Texas and eastern New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1223–1224

Register, Joseph K.

1979 Rb-Sr and related studies of the Salado Formation, southeastern New Mexico: M.S. thesis, Univ. New Mexico, 119 p.

1980 (and Brookins, D. G.) Rb-Sr isochron age of evaporite minerals from the Salado Formation (Late Permian), southeastern New Mexico: Isochron/West, no. 29, p. 39-42, 3 tables, 1 fig.

see Brookins, Della Valle, and Register, 1980; Brookins, Register, and Krueger, 1980; and Brookins, Register, and others, 1978

Register, Marcia E.

1979 Geochemistry and geochronology of the Harding pegmatite, Taos County, New Mexico: M.S. thesis, Univ. New Mexico, 145 p.

1978 (and Brookins, D. G.) Geochemical study of Harding pegmatite and related granites, Taos County, New Mexico (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 16-17

1979 (and Brookins, D. G.) Geochronologic and rare-earth study of the Embudo granite and related rocks: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 155–158, 2 tables, 4 figs.

1978 (Brookins, D. G., and Della Valle, R. S.) Geochemical study of the Harding pegmatite and related granites, Taos County, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1212

see Brookins, Chakoumakos, and others, 1979; and Brookins, Register, and others, 1978

Rehfeldt, Kenneth R.

see Gross, G. W., Hoy, and others, 1980

Reid, Bruce E.

1980 (and others) Raton quadrangle, New Mexico and Colorado (NURE): Bendix Field Eng. Corp., Tech. Library, Rept.; U.S. Dept. Energy, Rept. GJQ-005-80, 83 p., 2 sheets, scale 1:500,000

Reid, John B., Jr.

1976 Upper and lower limits to the geothermal gradient beneath the southern Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 621-622

1978 The petrologic history of the upper mantle beneath the southern Rio Grande rift with speculation on limits to Cenozoic diapirism beneath the rift, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 71-72

1977 (Bateman, Jennifer; Dubois, Dean; and Woods, G. A.) Oceanic mantle beneath the southwestern U.S. (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 6, p. 526

1978 (and Frey, F. A.) The nature of the upper mantle beneath the southern Rio Grande rift—new rare earth evidence (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1214

1978a (and Woods, G. A.) A comparison of partial melting processes beneath Hawaii and the southern Rio Grande rift (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 7, p. 766-767

1978b (and Woods, G. A.) Oceanic mantle beneath the southern Rio Grande rift: Earth and Planet. Sci. Letters, v. 41, no. 3, p. 303–316, 5 tables, 7 figs.

see Berman, R. G., and Reid, 1976

Reid, W. M.

see Everett and others, 1978

Reilinger, Robert E.

1980 (Brown, L. D., and Jurkowski, G. A.) Geodetic leveling and crustal movement in the U.S.—pt. III, tectonic deformation (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 17, p. 210

1979 (Brown, L. D., Oliver, J. E., and York, J. E.) Recent vertical crustal movements from leveling observations in the vicinity of the Rio Grande rift, in Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 223–236, 7 figs.; abs. in International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487-C, p. 73-74

1980 (Brown, L. D., and Powers, D. W.) New evidence for tectonic uplift in the Diablo Plateau region, west Texas: Geophys. Research Letters, v. 7, no. 3, p. 1911 194

181-184

1976 (and Oliver, J. E.) Modern uplift associated with a proposed magma body in the vicinity of Socorro, New Mexico: Geology, v. 4, no. 10, p. 583-586, 5 figs.

1979 (Oliver, J. E., Brown, L. D., Sanford, A. R., and Balazs, E. I.) New measurements of crustal doming over the Socorro magma body (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 46, p. 954

1980 (Oliver, J. E., and others) New measurements of crustal doming over the Socorro magma body, New Mexico: Geology, v. 8, no. 6, p. 291-295

1978 (and York, J. E.) Tectonic implications of two vertical crustal movement anomalies from NGS releveling data (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 4, p. 330

1979 (and York, J. E.) Relative crustal subsidence from leveling data in a seismically active part of the Rio Grande rift, New Mexico: Geology, v. 7, no. 3, p. 139-143

see Brown, L. D., Miesen, and others, 1980; and Brown, L. D., Reilinger, and Hagstrum, 1978

Reimer, G. M.

1979 (Denton, E. H., Friedman, I., and others) Recent developments in uranium exploration using the U.S. Geological Survey's mobile helium detector: Jour. Geochem. Exploration, v. 11, no. 1, p. 1-12

see Rice and Reimer, 1977

Reinke, Robert E.

1978 Surface-wave propagation in the Tularosa and Jornada del Muerto Basins, south-central New Mex-

ico: Ph.D. thesis, Southern Methodist Univ., 161 p.; Dissert. Abs. Internat., 1979, v. 39, no. 10, p. 4785-B

1979 (and Herrin, Eugene) Geophysical model studies of the Tularosa Basin, New Mexico: Natl. Tech. Inf. Serv., Rept. AD-A054 161/5WN, 173 p.; abs. in New Mexico Geology, v. 1, no. 1, p. 16

see Stump and Reinke, 1980

Reisz, Robert R.

see Berman, D. S., and Reisz, 1980

Reiter, David E.

1980 Geology of Alamo Hueco and Dog Mountains, Hidalgo County, New Mexico: M.S. thesis, Univ. New Mexico

see Deal, Elston, and others, 1978

Reiter, Marshall A.

1976 An investigation of the thermal regime of the Rio Grande rift and neighboring geologic provinces by employing very deep heat flow measurements: Natl. Sci. Foundation, Geothermal Energy Prog., NSF-RA-760090, p. 5

1978 (Edwards, C. L., Mansure, A. J., and Shearer, Charles) Heat-flow data and major geologic features along the Rio Grande rift in New Mexico, *in* Guidebook to the Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 234, 1 fig.

1976 (Edwards, C. L.; Shearer, Charles; Fisher, J.A.; Mansure, A. J.; and McGrath, E. E.) Terrestrial heat flow studies in the New Mexico and neighboring geologic areas (abs.): Colorado School Mines and Natl. Sci. Foundation, Conf. on Exploration for the Geothermal Reservoir, p. 1-2

1976 (Edwards, C. L.; Shearer, Charles; McGrath, E. E.; and Mansure, A. J.) Heat flow anomalies along the Rio Grande rift (abs.): Geol. Soc. America,

Abs. with Programs, v. 8, no. 6, p. 1065

1979a (Mansure, A. J., and Shearer, Charles) Geothermal characteristics of the Rio Grande rift within the southern Rocky Mountain complex, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 253–267, 3 tables, 2 figs.; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA–7487–C, p. 75

1979b (Mansure, A. J., and Shearer, Charles) Geothermal characteristics of the Colorado Plateau: Tectonophysics, no. 61, p. 183–195; abs. in New Mexico

Geology, v. 1, no. 1, p. 16

1976 (and others) A preliminary economic feasibility study for the establishment of an energy-water complex in the Tularosa Basin: New Mexico State Univ., Water Resources Research Inst., Rept. 068, 231 p.

1979 (and Shearer, Charles) Terrestrial heat flow in eastern Arizona—a first report: Jour. Geophys. Research, v. 84, no. B11, p. 6115-6120

1980 (and Shearer, Charles) Deep terrestrial heatflow studies in southwestern United States (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 771-772

1978 (Shearer, Charles, and Edwards, C. L.) Geothermal anomalies along the Rio Grande rift in New Mexico: Geology, v. 6, no. 2, p. 85-88, 1 table, 2 figs.

1976 (Simmons, Gene; Chessman, Mary; England,

Tony; Hartman, Harold; and Weidman, Charles) Terrestrial heat flow near Datil, New Mexico: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1975-76, p. 33-37, 2 tables, 2 figs.

1977 (and Smith, R.) Subsurface temperature data in the Socorro Peak KGRA, New Mexico: Geother-

mal Energy Mag., v. 5, no. 10, p. 37-41

1976 (and Stone, W. J.) Geothermal resources, in Legislative energy report, taxes and revenues: New Mexico Legislative Energy Comm., v. 2, pt. II, p. 84-95

1976 (Weidman, Charles, Edwards, C. L., and Hartman, Harold) Subsurface temperature data on Jemez Mountains, New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 151, 16 p., 14 figs.

see Arnold, Foster, and others, 1976; Edwards and others, 1978; Mansure and Reiter, 1977, 1979; and Shearer and Reiter, 1978

Renard, K. G.

see Osborn and others, 1979

Renault, Jacques R.

1978a Overview of Rio Grande basalts with special reference to TiO₂ variation, *in* Guidebook to the Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 230-233, 2 tables, 2 figs.

1978b Petrology of the Cerro de Los Lunas, Wind Mesa, and Cat Hills volcanics, Bernalillo and Valencia Counties, New Mexico, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 75-77

1977 (and Hayslip, D. L.) Thermoluminescence of quartz in uraniferous sandstones—methods and initial tests: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1976-77, p. 66-75, 2 tables, 9 figs.; New Mexico Bureau Mines Mineral Resources, 1976, Open-file Rept. 68, 34 p., 3 tables, 8 figs.

1978 (and Iovenitti, Joe) Resolution of x-ray diffraction lines—a model of the 68-degree 2-theta quartz quintuplet: Geol. Soc. America, Abs. with Programs, v. 10, no. 5, p. 236

see Faris and Renault, 1980; Hayslip, Fuller, and others, 1979, 1980; Hayslip and Renault, 1976; Iovenitti and Renault, 1977; and Taggart and Renault, 1977

Renner, J. L.

1976 (and others) Hydrothermal convection systems in the States of Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming: Natl. Tech. Inf. Serv., Rept. PB-250-377, 352 p.

see Patterson, E. D., and Renner, 1976

Repetski, John E.

1979 (and Drewes, H. B.) Ordovician Montoya Group extended westward in southeastern Arizona (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 83 see Armstrong, A. K., Mamet, and Repetski, 1980

Restrepo, J. J

1972 Geology and mineral deposits of the Rio Hondo-Red River divide, Taos County, New Mexico: M.S. thesis, Colorado School Mines

Reynolds, C. B.

see Kintzinger and others, 1978

Revnolds, Daniel M.

1979 Origin and formation of clastic plugs and dikes of Union County, New Mexico: M.S. thesis, Wichita State Univ.

1980 (and Gries, J. C.) Origin and formation of clastic plugs of Union County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 1, p. 16

Reynolds, J. F.

1978 (Cwik, M. J., and Kelley, N. E.) Reclamation at Anaconda's open pit uranium mine, New Mexico: Reclamation Rev., v. 1, no. 1, p. 9-17

Reynolds, Richard L.

1978a (and Goldhaber, M. B.) Recognition of oxidized sulfide minerals as an exploration guide for uranium: U.S. Geol. Survey, Jour. Research, v. 6, no. 4, p. 483–488, 4 figs.

1978b (and Goldhaber, M. B.) Iron-titanium oxide minerals and associated alteration phases in some uranium-bearing sandstones: U.S. Geol. Survey, Jour. Research, v. 6, no. 6, p. 707-714, 5 figs.

Reynolds, T. J.

1979 (and Beane, R. E.) The evolution of hydrothermal fluid characteristics through time at the Santa Rita, New Mexico, porphyry copper deposit (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 502

Rezak, Richard

see Toomey and others, 1977a,b

Rhett, Douglas W.

1980 Heavy-mineral criteria for subsurface uranium exploration, San Juan Basin, New Mexico, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 202–207, 4 figs.

Rhodes, Doris J.

see Anderson, R. Y., Kietzke, and Rhodes, 1978

Rhodes, Rodney C.

1976a Volcanic geology of the Mogollon range and adjacent areas, Catron and Grant Counties, New Mexico, in Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 42–50, 7 tables, 5 figs.

1976b Petrologic framework of the Mogollon Plateau volcanic ring complex, New Mexico—surface expression of a major batholith, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 103–112, 4 tables, 10 figs.

1976 (and Smith, E. I.) Stratigraphy and structure of the northwestern part of the Mogollon Plateau volcanic province, Catron County, New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 57-62, 2 tables, 4 figs.

see Deal and Rhodes, 1976; Elston, Rhodes, Coney, and Deal, 1976; Elston, Rhodes, and Erb, 1976; and Smith, E. I., and others, 1976

Ricciardi, Karen

1978 A petrographic and chemical study of axinite and scapolite occurrences in the White Oaks mining district, Lincoln County, New Mexico: M.S. thesis, Univ. New Mexico, 128 p.

Rice, R. S.

1977 (and Reimer, G. M.) Helium analysis of subsurface waters as a uranium exploration tool: U.S. Dept. Energy, Rept. GJBX-77-77, p. 301-302 see Brady and Rice, 1977

Richards, D. P.

see Abel and others, 1979

Richardson, C. B.

1976 Cross sections of southern Arizona and adjacent parts of California and New Mexico: Arizona Geol. Soc., Digest, v. 10, p. 1-5

Richardson, S. H.

1980 (Padovani, E. R., and Hart, S. R.) The gneiss syndrome—Nd- and Sr-isotopic relationships in lower crustal granulite xenoliths, Kilbourne Hole, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 17, p. 388

see Hart, S. R., Padovani, and Richardson, 1980

Richter, D. H.

1978 Geologic map of the Spring Canyon quadrangle, Catron County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-966, scale 1:24,000

Rickart, E. A.

1977 Pleistocene lizards from Burnet and Dark Canyon Caves, Guadalupe Mountains, New Mexico: Southwestern Naturalist, v. 21, no. 4, p. 519-522

Rickman, Douglas L.

1977 The origin of celestite (strontium sulfate) ores in the southwestern United States and northern Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 75 p.

Ridgley, Jennie L.

1977 Stratigraphy and depositional environments of the Jurassic-Cretaceous sedimentary rocks in the southwest part of the Chama Basin, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 153-158, 4 figs.

1979a Roll-type uranium occurrence at Dennison-Bunn claim and possibility of uranium deposits in eastern part of San Juan Basin, New Mexico, *abs. in* Grants uranium region, a symposium: Am. Assoc. Petroleum Geologists, Program, p. 17; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 692-693

1979b Preliminary geologic map of the Arroyo del Agua quadrangle, Rio Arriba County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-657, scale 1:24.000

1979c A preliminary report on the geology of the Dennison-Bunn uranium claim, Sandoval County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-1510, 44 p.

1979d Geologic map of the Arroyo del Agua quadrangle, Rio Arriba County, New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 41-42

1980 Geology and characteristics of uranium mineralization in Morrison Formation at Dennison–Bunn claim, Sandoval County, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 299–303, 1 table, 4 figs.

1978 (Green, M. W., Pierson, C. T., Finch, W. I., and Lupe, R. D.) Summary of the geology and resources of uranium in the San Juan Basin and adjacent region, New Mexico, Arizona, Utah, and Colo-

rado: U.S. Geol. Survey, Open-file Rept. 78–964, 114 p., 1 fig., 2 pls.

Ridley, W. Ian

1979 Phase chemistry as an indicator of calcalkaline petrogenesis (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 412-413

Riecker, Robert E.

1977 State of stress in the lithosphere: Am. Geophys. Union (EOS), Trans., v. 58, no. 7, p. 597-599, I map

1979 (editor) Rio Grande rift—tectonics and magmatism: Washington, D.C., Am. Geophys. Union, 438 p.

Riese, A. C.

1980 (and Popp, C. J.) Application of solutionmineral equilibrium chemistry to solution mining of uranium ores, in Geology and mineral technology of Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 344–354, 8 tables, 10 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 17; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 693

Riese, Walter C.

1977 Geology and geochemistry of the Mount Taylor uranium deposit, Valencia County, New Mexico: M.S. thesis, Univ. New Mexico, 119 p.

1980 The Mount Taylor uranium deposit, San Mateo, New Mexico: Ph.D. thesis, Univ. New Mexico, 643 p.; Dissert. Abs. Internat., v. 41, no. 5, p. 1689-B-1690-B

1976 (and Brookins, D. G.) Geochemistry of uranium deposits east and northeast of the San Mateo Springs Grant, McKinley and Valencia Counties, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 622

1977 (and Brookins, D. G.) Subsurface stratigraphy of the Morrison Formation in the Mount Taylor area and its relation to uranium ore genesis: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 271-275, 3 figs.

1978 (and Brookins, D. G.) A scanning electron microscopic study of the Mount Taylor uranium deposit, Valencia County, New Mexico (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 17

1979 (and Brookins, D. G.) Mount Taylor uranium deposit—description and comparison with Wyoming roll fronts (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 5, p. 839

1980 (and Brookins, D. G.) Mount Taylor uranium deposit, San Mateo, New Mexico, *abs. in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 397; *also in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 17–18; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 693

1978 (Brookins, D. G., and Della Valle, R. S.) The effectiveness of organic acids in providing uranium mineralization in the Grants mineral belt, New Mexico—an experimental study (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 18

1980 (Brookins, D. G., and Della Valle, R. S.) Scanning-electron-microscope investigation of paragenesis of uranium deposits, Mount Taylor and elsewhere, Grants mineral belt, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 244–251, 33 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 18; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 693

1978 (Brookins, D. G., and Lee, M. J.) SEM investigation of the paragenesis of uranium deposits, Grants mineral belt, New Mexico, U.S.A. (abs.): Internat. Assoc. Genesis Ore Deposits, 5th symp., Program and Abs., p. 153; Nevada Bureau Mines, 1979, Rept. 33, p. 165–174

1977 (Lee, M. J., and Brookins, D. G.) Scanning electron microscopy of uranium ores, Grants mineral belt, New Mexico—application to U:C:pyrite distribution (abs.): Geol. Soc. America, Abs., v. 9, no. 7, p. 1142

1979 (Lee, M. J., and others) Application of trace element geochemistry to prospecting for sandstone-type uranium deposits: 7th Internat. Geochem. Explor. Symp., Proc., p. 47-63

see Brookins, Lee, and Moon, 1977; and Brookins, Lee, and Riese, 1977

Riesmeyer, William D.

1978 Precambrian geology and ore deposits of the Pecos mining district, San Miguel and Santa Fe Counties, New Mexico: M.S. thesis, Univ. New Mexico, 215 p.

1979 (and Robertson, J. M.) Precambrian geology and ore deposits of the Pecos mine, San Miguel County, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 175–179, 1 table, 1 fig.

Rigby, J. Keith, Jr.

1977 Southern Colorado Plateau: Kendall/Hunt Publishing Co., K/H Geology Field Guide Series, 148 p., 223 figs.

1977 (and Lucas, S. G.) Fossil mammals from the Ojo Alamo Sandstone, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, Suppl. Articles, p. 55-56, 1 fig.

1980 (and Wolberg, D. L.) A unique Late Cretaceous fossil assemblage from the "Fossil Forest," Fruitland Formation, San Juan Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 509

see Kues, Lehman, and Rigby, 1980; Lucas and Rigby, 1979; and Wolberg and Rigby, 1980

Riggs, Elliott A.

1978a Bloomfield Farmington (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 243–244

1978b Blue Hill Paradox (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 245–247, 2 figs.

1978c Oswell Farmington (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 441, 1 fig.

1978d Tocito Dome Mississippian, north (helium), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 519-521, 3 figs.

1978e Verde Gallup (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 550–552, 2 figs.

see Parker, J. M., and others, 1977

Rinehart, Eric J.

1976 The use of microearthquakes to map an extensive magma body in the Socorro, New Mexico, area: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 10, 60 p.

1979a The determination of an upper crustal model for the Rio Grande rift near Socorro, New Mexico, employing S-wave reflections produced by local microearthquakes: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 29, 138 p.

1979b The determination of an upper crustal model for the Rio Grande rift near Socorro, New Mexico, employing S-wave reflections produced by local microearthquakes: Ph.D. thesis, New Mexico Inst. Mining and Tech., 92 p.

1980 (and Sanford, A. R.) An upper crustal geophysical model for the Rio Grande rift beneath Socorro, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 5, p. 47

1979 (Sanford, A. R., and Ward, R. M.) Geographic extent and shape of an extensive magma body at mid-crustal depths in the Rio Grande rift near Socorro, New Mexico, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 237–251, 1 table, 8 figs.; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487–C, p. 77–78

see Sanford, Mott, and others, 1977; Sanford, Rinehart, and others, 1977; and Shuleski and others, 1977

Rinehart, John S.

1977 Effects of earth tides on water wells (abs.): New Mexico Acad. Sci., Bull., v. 17, no. 2, p. 37

Riskind, D. H.

see Wauer and Riskind, 1977

Ristorcelli, Steven J.

1980a Geology of eastern Smith Lake ore trend, Grants mineral belt, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 145–152, 10 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 18; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 693–694

1980b Geology of the eastern Smith Lake ore trend, McKinley County, New Mexico: M.S. thesis, Univ. New Mexico

Ritschard, R.

see Gertsch and others, 1977

Roach, J. T.

see Anderson, J. R., and others, 1976

Robbie, Wayne A.

1978 (and Buchanan, B. A.) Soil erosion rates for forested and non-forested areas (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 4

Robbins, Stephen L.

see Kososki and others, 1978

Roberts, J. Wayland

1976 (Barnes, J. J., and Wacker, H. J.) Subsurface

Paleozoic stratigraphy of the northeastern New Mexico basin and arch complex: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 141-152, 10 figs.

Robertson, Jacques F.

1976 Preliminary geologic map of the Casamero Lake quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Open-file Rept. 76-681, scale 1:24,000

1978 Preliminary geologic map of the Crownpoint quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-713, scale 1:24,000

1979 The Ruby Well no. 1 uranium mine, McKinley County, New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 41

see Kirk, Huffman, and others, 1978

Robertson, James M.

1976a Annotated bibliography and mapping index of Precambrian of New Mexico: New Mexico Bureau Mines Mineral Resources, Bull. 103, 92 p., 2 figs., 2 maps

1976b Mining districts of northeastern New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 257–262

1979 (Budding, A. J., Kottlowski, F. E., James, H. L., and Armstrong, A. K.) Third day, road log from Lamy Junction to Cowles via Glorieta, Pecos National Monument, Pecos, Tererro, and Pecos mine: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 29-41, 14 figs.

1976 (Callender, J. F., and Brookins, D. G.) Summary of Precambrian geology and geochronology of northeastern New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p.

129-135

1978 (Condie, K. C., and Mathewson, D. C.) The Pecos greenstone belt—a Proterozoic volcano-sedimentary sequence in the southern Sangre de Cristo Mountains, New Mexico (abs.): Geol. Soc. America, Abs. with Program, v. 10, no. 7, p. 479

1979 (and Moench, R. H.) The Pecos greenstone belt—a Proterozoic volcano-sedimentary sequence in the southern Sangre de Cristo Mountains, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 165-173, 2 figs.

see Budding, Robertson, and others, 1979; Callender, Robertson, and Brookins, 1976; and Riesmeyer and Robertson, 1979

Robinson, B.

see Styron and others, 1979

Robinson, Keith

1978 (Frezon, S. E., and Drew, R. H.) Geologic appraisal of undiscovered oil and gas resources in Pennsylvanian and Mississippian rocks of Permian Basin, west Texas and southeastern New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 558

see DeCicco, D. A., Patterson, and Robinson, 1980; and Dolton, Coury, and others, 1980

Robinson, W. P.

1978 (compiler) New Mexico uranium inventory: Southwest Resource and Inf. Cent., 200 p.

Roden, M. K.

see Hart, S. R., Padovani, and Roden, 1979

Roden, Michael F.

1978 Trace element geochemistry of mafic and felsic minettes, Buell Park diatreme, Navajo volcanic field (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 480

1979 (Smith, D., and McDowell, F. W.) Age and extent of potassic volcanism on the Colorado Plateau: Earth and Planet. Sci. Letters, v. 43, no. 2, p. 279-284

Rodi, William L.

see Bache and others, 1978

Roedder, Edwin W.

1979 (and Belkin, H. E.) Application of studies of fluid inclusions in Permian Salado Salt, New Mexico, to problems of siting the waste isolation pilot plant, *in* Scientific basis for nuclear waste management, G. J. McCarthy, editor: New York, Plenum Press, v. 1, p. 313-321

Roegiers, J.-C.

1976 (and Thill, R. E.) Rock characterization at a geothermal site: 17th Symp. Rock Mechanics, Proc., p. 5D5.1-5D5.6

Roehler, Henry W.

1980 (and Danilchik, Walter) Relation of intraformational faults to fluvial sedimentation and coal-bed discontinuity, Raton Formation, Colorado and New Mexico, *in* Proceedings of the fourth symposium on the geology of Rocky Mountain coal, L. M. Carter, editor: Colorado Geol. Survey, Resource Ser. 10, p. 13

Roeske, R. H.

1978 (Cooley, M. E., and Aldridge, B. N.) Floods of September 1970 in Arizona, Utah, Colorado, and New Mexico: U.S. Geol. Survey, Water-supply Paper W-2052, 135 p., 1 sheet

Rogers, A. M.

1979 (and Malkiel, A.) A study of earthquakes in the Permian Basin of Texas-New Mexico: Seismol. Soc. America, Bull., v. 69, no. 3, p. 843-865

Rogers, Margaret Anne

1980 (and Burton, B. W.) Trace element study of the Bandelier Tuff (Pleistocene), Pajarito Plateau, Los Alamos and Santa Fe Counties, north-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 302

1980 (Christie, V. L., and Budding, K. E.) Distinguishing structural joints from cooling joints in the Bandelier Tuff (Pleistocene), Pajarito Plateau, northcentral New Mexico—a radioactive waste management study (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 5, p. 302

see Purtymun, Rogers, and Wheeler, 1980

Rona, Peter A.

1977 Plate tectonics, energy, and mineral resources—basic research leading to payoff: Am. Geophys. Union (EOS), Trans., v. 58, no. 8, p. 629-639, 5 figs.

Root, D. H.

see Drew and others, 1979a,b

Rose, Arthur W.

see Ahmad and Rose, 1980

Rose, Kenneth S.

1978 Gelled acid coaxes oil from tight Permian carbonates: World Oil, v. 187, no. 5, p. 115-120, 9 figs.

Rose, Peter R.

1976 Mississippian carbonate shelf margins, western United States: U.S. Geol. Survey, Jour. Research, v. 4, no. 4, p. 449–466, 10 figs.

Rosholt, J. N.

1980 (and McKinney, C. R.) Uranium trend dating of surficial deposits and Gypsum Spring deposit near WIPP site, New Mexico, *in* Uranium series disequilibrium investigations related to the WIPP site, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-879, 21 p.

Ross, Charles A.

1978 Pennsylvanian and Early Permian depositional framework, southeastern Arizona: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 193-200, 7 figs.

Ross, Joseph R.

1978 A three-dimensional facies analysis of the canyon alluvial fill sequence, Chaco Canyon, New Mexico: M.S. thesis, Univ. New Mexico, 86 p.

Ross, L. M.

1979 (and Harwood, R. J.) Organic geochemical correlation of San Juan Basin oils and oil source sequences (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 506

Ross, Reuben J., Jr.

1976 Ordovician sedimentation in the western United States, *in* Geology of the Cordilleran hingeline, J. G. Hill, editor: Rocky Mtn. Assoc. Geol., Guidebook 1976 symp., p. 109-133, 11 figs.

Roswell Geological Society

1977 Southeastern New Mexico oil and gas field production data and comprehensive symposium index (production data as of January 1, 1976), *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. x-xxx

Roth, Susan J.

1980 Geology of the Sawmill Canyon area of the Magdalena Mountains, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 129, 96 p., 20 figs., 2 sheets; M.S. thesis, New Mexico Inst. Mining and Tech., 88 p.

Rowlery, J. C.

see Maurer and others, 1978

Roy, R. E.

see Keller, G. R., Graham, and Roy, 1978; and Taylor, Bruce, and others, 1980

Roybal, F. E.

see Dewey and others, 1979; and Funderburg and Roybal, 1977

Roybal, R. Gary

see Wilson, C. A., White, and others, 1978; and Wilson, C. A., White, and Roybal, 1979a, b

Royce, R. M.

see McEachin and Royce, 1978

Rudolph, K. W.

1979 Diagenesis of back-reef carbonate rocks—example from Capitan complex (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 3, p. 519

Ruetschilling, Richard L.

see Woodward and Ruetschilling, 1976

Runnells, Donald D.

1977 Wastewaters in the vadose zone of arid

regions—geochemical interactions (abs.): Sel. Water Resources Abs., v. 10, no. 10, p. 13

Rusen, S. John

1977 Logging in the San Juan Basin of northwestern New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, Suppl. Articles, p. 35-40, 5 figs.

Russell, Charles R.

see Kaufman, R. F., and others, 1976, 1977

Russell, Judy A.

1979 Refractory clay resources of the Burro Canyon (?) Formation-Dakota Sandstone, north-central New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 111 p., 7 tables, 30 figs., 2 appendices see Wright, J. R., and Russell, 1977

Russell, Susan L.

see Smith, R. L., and others, 1978

Russell, Thomas W.

see Taylor, R. G., and others, 1978

Rutenbeck, Todd

see Wachter and Rutenbeck, 1980

Rybarczyk, Sandra M.

see Swanberg and Rybarczyk, 1979

Ryder, Robert T.

1980 (Smith, G. H., and Lee, M. W.) Seismic models of 15 stratigraphically controlled oil and gas fields containing sandstone reservoirs in Rocky Mountain basins (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 778

Sabins, Floyd F.

1978 Bisti Lower Gallup (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 213–215, 4 figs.

Sachdev, Suresh C.

1978 Clay minerals as uranium tracers for roll front-type deposits (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 480

1980 Mineralogical variations across Mariano Lake roll-type uranium deposit, McKinley County, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 162–171, 17 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 19; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 694

Saito, K.

1977 (Basu, A. R., Alexander, E. C., Jr., and Dragon, J. C.) Rare gases in mantle derived samples (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 12, p. 1249

1978 (Menzies, M., Alexander, E. C., Jr., and Pepin, R. O.) Rare gases in mantle xenoliths (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1215

Sakai, H.

1976 (Matsubaya, O., and Shannon, S. S.) Interpretation of the regimen of ephemeral gypsiferous lakes in the Tularosa Basin, New Mexico, using ³⁴S/ ³²S, ¹⁸O/¹⁶O, and D/H ratios (abs.): Internat. Geol. Congr., Abs., no. 25, v. 3, p. 835–836

Salek-Nejad, H.

see Adams, S. S., and others, 1978

Sales, John K.

1978 Model studies of continental rifting related to

the Rio Grande rift, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 80-82

Salisbury, H. B.

see Beard and others, 1980

Salter, T. L.

see Walton and others, 1980

Salveson, J. O.

1978 Future potential for development of geothermal energy in contiguous United States (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 7, p. 1210

Sandberg, Charles A.

1976 Conodont biofacies of Late Devonian *Polygnathus styriacus* zone in western United States, *in* Symposium on conodont paleoecology, C. R. Barnes, editor: Geol. Assoc. Canada, Spec. Paper 15, p. 171-186

Sandell, E. T., Jr.

see Aguilar, Cheeseman, and Sandell, 1976

Sanderson, George A.

see Tyrrell and others, 1978

Sandia Laboratories

1979a (and U.S. Geological Survey) Basic data report for drillhole WIPP 13: Sandia Lab., Rept. SAND79-0273, 60 p., 4 appendices

1979b (and U.S. Geological Survey) Basic data report for drillhole WIPP 25: Sandia Lab., Rept. SAND79-0279, 80 p., 4 appendices

1979c (and U.S. Geological Survey) Basic data report for drillhole WIPP 27: Sandia Lab., Rept. SAND79-0281, 68 p., 4 appendices

1979d (and U.S. Geological Survey) Basic data report for drillhole WIPP 29: Sandia Lab., Rept. SAND79-0283, 66 p., 4 appendices

Sandlin, Gary L.

1980 (and Schatz, F. L.) The Peterson and South Peterson multi-pay fields, Roosevelt County, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 53

Sanford, Allan R.

1976 Seismicity of the Los Alamos region based on seismological data: Los Alamos Sci. Lab., Rept. LA-6416-MS, 9 p.

1977a Temperature gradient and heat-flow measurements in the Socorro, New Mexico area, 1965-1968: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 15, 19 p.

1977b Seismic investigation of a magma layer in the crust beneath the Rio Grande rift near Socorro, New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 18, 21 p.

1978a Characteristics of Rio Grande rift in vicinity of Socorro, New Mexico, from geophysical studies, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 116-121, 3 figs.

1978b Earthquake activity in New Mexico (1849 through 1977): New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 26, 25 p.

1979 Earth tilts measured in Socorro Mountain, west of Socorro, New Mexico, 1968 to 1972: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 30, 8 p.

1980a Earthquake activity in New Mexico from 1849 through 1961: New Mexico Geology, v. 2, no. 1, p. 6, 1 fig.

1980b Earthquake activity in New Mexico, 1849–1977: Natl. Tech. Inf. Serv., Rept. DOE/ID/01717-1, p. 3.1-3.26

1977 (Mott, R. P., Jr., Shuleski, P. J., Rinehart, E. J., Caravella, F. J., Ward, R. M., and Wallace, T. C.) Geophysical evidence for a magma body in the crust in the vicinity of Socorro, New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 17, 18 p.; Am. Geophys. Union (EOS), Trans., v. 58, no. 7, p. 621

1977 (and Oliver, J. E.) Comparison of microearthquake and COCORP studies of magma bodies beneath the Rio Grande rift in the vicinity of Socorro, New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 16, 9 p.

1979 (Olsen, K. H., and Jaksha, L. H.) Seismicity of the Rio Grande rift, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 145–168, 3 tables, 6 figs.; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA–7487–C, p. 86–88

1980 (Olsen, K. H., and Jaksha, L. H.) Seismicity of New Mexico—1849 through 1977: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 34

1976 (and others) Microearthquake investigations of magma bodies in the vicinity of Socorro, New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 9, 7 p.; Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 1085–1086

1978 (and others) Seismic studies of the Los Medanos area in southeastern New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 20, 59 p.

1980 (and others) Seismicity in the area of the Waste Isolation Pilot Plant (WIPP): Sandia Natl. Lab., Rept. SAND80-7096, 80 p., 7 tables, 10 figs.; New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 32, 74 p.

1977 (Rinehart, E. J., Shuleski, P. J., and Johnston, J. A.) Evidence from microearthquake studies for small magma bodies in the upper crust of the Rio Grande rift near Socorro, New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 19, 13 p.; Am. Geophys. Union (EOS), Trans., v. 58, no. 12, p. 1188

1979 (and Schlue, J. W.) Seismic measurements of the Tertiary fill in the Rio Grande depression west of Socorro, New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 31, 10 p.

1980 (and Schlue, J. W.) Seismic exploration for shallow magma bodies in the vicinity of Socorro, New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 33, 19 p.; New Mexico Energy Inst., Rept. NMEI-56, 17 p.

1976 (Toppozada, T. R., Ward, R. M., and Wallace, T. C.) The seismicity of New Mexico, 1962 through 1972: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 7b, 16 p.; Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 625-626 see Brown, L. D., Allmendinger, and others, 1980;

Brown, L. D., Chapin, and others, 1980; Brown, L. D., Krumhansl, Chapin, and others, 1979; Brown, L. D., Krumhansl, Cook, Kaufman, and others, 1978; Caravella and Sanford, 1977; Chapin, Chamberlin, Osburn, and others, 1978; Chapin, Sanford, and Brown, 1980; Chapin, Sanford, and others, 1979; Oliver, J. E., Sanford, and others, 1976; Reilinger, Oliver, Brown, and others, 1979; Rinehart, E. J., and Sanford, 1980; Rinehart, E. J., Sanford, and Ward, 1979; Savage, J. C., Lisowski, and others, 1980; Shuleski and others, 1977; and Toppozada and Sanford, 1976

Sangree, J. B.

1978 (and Widmier, J. M.) Seismic stratigraphy and global changes of sea level—pt. 9, seismic interpretation of clastic depositional facies: Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 5, p. 752–771, 1 table, 14 figs.

1979 (and Widmier, J. M.) Interpretation of depositional facies from seismic data: Geophysics, v. 44, no. 2, p. 131–160, 3 tables, 21 figs.

Sanguinetti, Christopher C.

1976 (and Loeber, K. N.) Fault tracing as indicated by gravity profiles across the Santo Domingo Basin and Hagan embayment, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 626 Sanval. S. K.

1979 (Wells, L. E., and Bickham, R. E.) Geothermal well log interpretation—midterm report: Los Alamos Sci. Lab., Rept. 7693, 178 p.

Sarella, Craig

1977 Northeast New Mexico stratigraphic paper— Entrada equivalent: Am. Assoc. Petroleum Geologists, Amarillo, Texas, Continuing Education Short Course

Sarg, Joseph F.

1976a Sedimentology of the carbonate-evaporite facies transition of the Seven Rivers Formation (Guadalupian-Permian) in southeast New Mexico: Ph.D. thesis, Univ. Wisconsin, 341 p.; Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 1, p. 451-478; Dissert. Abs. Internat., v. 37, p. 250-B

1976b Subaqueous evaporite deposition, Permian shelf, Seven Rivers Formation, southeast New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 60, no. 4, p. 718-719; Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 2, p. G187-G188

1977 Locality guides, stops VI, VII, and VIII, Rocky Arroyo: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 2, p. G165-G187

see Pray and Sarg, 1977

Sargent, K. A.

see Lipman, Pallister, and Sargent, 1979

Sathaye, J.

see Gertsch and others, 1977

Saucier, Alva E.

1976 Tectonic influence on uraniferous trends in the Late Jurassic Morrison Formation, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 151-157, 5 figs.

1977 Exploration and development in Grants uranium region, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 5, p. 825

1979 Albuquerque to Ambrosia Lake, New Mexico, Grants uranium region guidebook: Am. Assoc. Petroleum Geologists, 29 p., 4 tables, 14 figs.

1980 Tertiary oxidation in Westwater Canyon Member of Morrison Formation, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 116–121, 3 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 19; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 694

see Kozusko and Saucier, 1979, 1980; and Woodward, Ingersoll, Fitch, Lisenbee, and others, 1979

Saunders, Jeffrey J.

1978 Mammuthus in the Clovis horizon of North America (abs.): Am. Quaternary Assoc., 5th Bienn. Mtg., Abs., p. 99-103

Savage, G. J.

1977a Arkansas Junction (Queen) field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 40-41, 1 table, 1 fig.

1977b Arkansas Junction (San Andres) field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 42–43, 1 table, 1 fig.

Savage, J. C.

1979 (Lisowski, M., and Prescott, W. H.) Geodolite measurements of strain accumulation in Alaska, Montana, Nevada, New Mexico, Utah, and Washington: Earthquake Notes, v. 50, no. 4, p. 71-72

1980 (Lisowski, M., Prescott, W. H., and Sanford, A. R.) Geodetic measurements of horizontal deformation across the Rio Grande rift near Socorro, New Mexico: Jour. Geophys. Research, v. 85-B, no. 12, p. 7215-7220

Savage, V. H.

see Kleeman and Savage, 1977

Savela, C. E.

1977 Textural analysis of the Exeter Sandstone, northeastern New Mexico: Compass, v. 54, no. 2, p. 29-35

Sayer, Suzanne

see Goff and Sayer, 1980

Schaefer, P. J.

1976 Microfacies analysis and cementation history of a Mississippian mud mound: M.S. thesis, State Univ. New York (Stony Brook)

Schatz, Frank L.

see Sandlin and Schatz, 1980

Schery, Stephen D.

1980 (Wilkening, M. H., and Gaeddert, D. H.) Radon transport through fractured rock—a case study (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1033

Schiebout, Judith A.

1978 Early Tertiary terrestrial paleogeography of North American Southwest and Gulf Coast (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 92, no. 9,

p. 1765; Gulf Coast Assoc. Geol. Soc., Trans., v. 28, pt. 2, p. 459

1979 An overview of the terrestrial early Tertiary of southern North America—fossil sites and paleopedology: Tulane Univ., Studies in Geol. and Paleontology, v. 15, p. 75-94

1980 (and Schrodt, A. K.) Stratigraphy of the early Tertiary Baca Formation of western New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 4, p. 207

see Kues, B. S., Froehlich, and others, 1977

Schilt, F. S.

1978 (Brewer, J.; Brown, L. D.; Cook, F. A.; Jensen, L.; Kaufman, S.; Krumhansl, P. A.; Long, G. H.; and Oliver, J. E.) The COCORP seismic reflection project—probing the continental crust (abs.): Earthquake Notes, v. 49, no. 3 p. 25

see Brown, L. D., Krumhansl, Chapin, and others, 1979; Brown, L. D., Krumhansl, Cook, Kaufman, and others, 1978; and Long, G. H., and others, 1977

Schipper, Mark R.

see Kelly, T. E., Link, and others, 1979, 1980

Schlue, John W.

1978 Report on a gravity survey of the northern Jornada del Muerto, New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 21, 19 p.

see Keller, G. R., Braile, and Schlue, 1979; and Sanford and Schlue, 1979, 1980

Schmidt, Volkmar

1977 Inorganic and organic reef growth and subsequent diagenesis in the Permian Capitan reef complex, Guadalupe Mountains, Texas, New Mexico: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 1, p. 93-131

Schmoker, James W.

1980 Effect upon borehole-gravity data of salt structures typical of the WIPP site (northern Delaware Basin), Eddy County, New Mexico: U.S. Geol. Survey, Oil and Gas Inv. Chart OC-109

see Kososki and others, 1978

Schnake, David W.

1977 Conditions of formation of the iron-bearing skarns at Lone Mountain, Lincoln County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 88 p.

Schneider, Douglas

1980 New Mexico ground water regulation—an overview, *abs. in* National water quality management conference: U.S. Environ. Protection Agency, p. 115-116

Schneider, Gary B.

1978 Preliminary geologic map of the Kimbeto, Sargent Ranch, Pueblo Bonito, and Pueblo Bonito NW quadrangles, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 78–90, 1 sheet

1979 (Hildenbrand, R. T., and Affolter, R. H.) Coal resources and chemical analyses of coal from the Fruitland Formation, Kimbeto EMRIA site, San Juan County, New Mexico: U.S. Geol Survey, Openfile Rept, 79–1090, 35 p., 6 sheets

1979 (Weide, D. L., Mytton, J. W., and Scott, G. R.) Geologic map of the Pueblo Bonito NW quadrangle, San Juan County, New Mexico: U.S. Geol.

Survey, Misc. Field Studies Map MF-1117, scale 1:24,000

1979 (Weide, D. L., and Scott, G. R.) Geologic map of the Kimbeto quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1118, scale 1:24,000

see Scott, G. R., Mytton, and Schnieder, 1980; Scott, G. R., Schneider, and Mytton, 1980; and Weide, Schneider, and others, 1979a, b

Scholle, Peter A.

1980 (and Halley, R. B.) Upper Paleozoic depositional and diagenetic facies in a mature petroleum province (a field guide to the Guadalupe and Sacramento Mountains): U.S. Geol. Survey, Open-file Rept. 80–383, 191 p., 2 sheets, scale 1:250,000

Schram, Frederick R.

1979 (and Schram, J. M.) Some shrimp of the Madera Formation (Pennsylvanian), Manzanita Mountains, New Mexico: Jour. Paleontology, v. 53, no. 1, p. 169-174, 2 pls., 2 figs.

Schram, Joan M.

see Schram, F. R., and Schram, 1979

Schrodt, Augusta Kay

1980 Depositional environments, provenance, and vertebrate paleontology of the Eocene-Oligocene Baca Formation, Catron County, New Mexico: M.S. thesis, Louisiana State Univ., 174 p.

see Schiebout and Schrodt, 1980

Schroeder, Albert H.

1979 The Cerrillos mining area, *in* Archaeology and history of Santa Fe country, R. V. Ingersoll, editor: New Mexico Geol. Soc., Spec. Pub. 8, p. 12–16, 1 table, 2 figs.

Schubert, Carl E.

1980 (Maxwell, J. C., and Johnson, W. J.) Eastern U.S. hot dry rock target prospect evaluation (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 2, p. 81

Schufle, Joseph A.

1979 Is Gallinas Gorge a young formation? (abs.): New Mexico Jour. Sci., v. 19, no. 2, p. 51

1976 (Baca, Phillip; Mishler, Robert; and Tinsley, Mary) Ion exchange dating and cultural remains associated with a Rio Tecolote sediment in northern New Mexico: Texas Jour. Sci., v. 27, no. 3, p. 377-381, 2 figs.

1979 (Mega, J., and Beckhart, R.) Ion exchange dating of sediments on the Gallinas River (abs.): Colorado-Wyoming Acad. Sci., Jour., v. 11, no. 1, p. 16

Schultz, Jerald D.

1980 Geomorphology, sedimentology, and Quaternary history of the eolian deposits, west-central San Juan Basin, northwest New Mexico: M.S. thesis, Univ. New Mexico, 139 p., 10 tables, 49 figs., 4 sheets, 3 appendices

see Love and Schultz, 1980

Schwartz, Arthur H.

see Neese and Schwartz, 1977; and Pray and Schwartz, 1977

Schwartz, Kenneth B.

1978 (and Irving, A. J.) Cation valence determinations in kaersutite and biotite megacrysts from alkalic basalts—evidence for Ti³⁺ in the upper mantle (abs.): Am. Geophys. Union (EOS), Trans., v. 59, no. 12, p. 1214–1215

Science and Engineering Resources, Inc.

1976 Ground-water hydrology of the alluvium at United Nuclear-Homestake Partners' mill near Milan, New Mexico: Sci. and Eng. Resources, Inc., consult. rept. to United Nuclear-Homestake Partners, 179 p.

1977 Modelling, design, and specifications of the collection and injection systems, United Nuclear-Homestake Partners' mill near Milan, New Mexico: Sci. and Eng. Resources, Inc., consult. rept. to United Nuclear-Homestake Partners, 60 p.

Scott, Alan J.

1979 (and Casey, J. M.) Pennsylvanian fan-delta facies of the Taos trough, New Mexico (abs.): 9th Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 198

see Casey and Scott, 1979, 1980

Scott, Arthur G.

1976 Revised estimates of mean-annual runoff and summary of precipitation and discharge data for Post Headquarters area, White Sands Missile Range, New Mexico: U.S. Geol. Survey, Open-file Rept. 76–86, 23 p., 4 tables, 5 figs.

1976 (and Kunkler, J. L.) Flood discharges of streams in New Mexico as related to channel geometry: U.S. Geol. Survey, Open-file Rept. 76-414, 38 p., 3 tables, 6 figs., 1 sheet

see Kunkler and Scott, 1977; and Malde and Scott, 1977

Scott, George L.

1977a Garrett Drinkard field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 98–99, 1 table, 1 fig.

1977b Tom-Tom field, Chaves County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 196–197, 1 table, 1 fig.

1980 Tom-Tom and Tomahawk San Andres oil fields, Chaves and Roosevelt Counties, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 53

1977 (and Reddy, George) Cato field, Chaves County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 76–77, 1 table, 1 fig.

Scott, Glenn R.

1980 (Mytton, J. W., and Schneider, G. B.) Geologic map of the Star Lake quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1248, scale 1:24,000

1979a (O'Sullivan, R. B., and Heller, J. S.) Preliminary geologic map of the Burnham Trading Post quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1076, scale 1:24,000

1979b (O'Sullivan, R. B., and Heller, J. S.) Preliminary geologic map of the Pillar NW quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1077, scale 1:24,000

1979c (O'Sullivan, R. B., and Heller, J. S.) Preliminary geologic map of the Newcomb NE quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1092, scale 1:24,000

1979 (O'Sullivan, R. B., and Mytton, J. W.) Reconnaissance geologic map of the Alamo Mesa West quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1074, scale 1:24,000

1980 (Schneider, G. B., and Mytton, J. W.) Geologic map of the Ojo Encino Mesa quadrangle, McKinley and Sandoval Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1249, scale 1:24,000

see Manley and Scott, 1978; O'Sullivan, Scott, and Heller, 1979a-d; O'Sullivan, Scott, and Weide, 1979; Pillmore and Scott, 1976; Schneider, Weide, and others, 1979; Schneider, Weide, and Scott, 1979; Weide, Mytton, and Scott, 1979, 1980; Weide, Schneider, and others, 1979a,b; and Weide, Scott, and Mytton, 1980

Scott, Robert W.

1977 Early Cretaceous environments and paleocommunities in the southern Western Interior—pt. 1, in Cretaceous facies, faunas, and paleoenvironments across the Western Interior Basin, E. G. Kauffman, editor: Mtn. Geologist, v. 14, no. 3-4, p. 155-173

1979 Depositional model of Early Cretaceous coral-algal-rudist reefs, Arizona: Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 7, p. 1108–1127, 2 tables, 13 figs.

Scott, Thruman E., Jr.

see Nielsen, K. C., and Scott, 1979, 1980

Scott, W. B.

see Wilkins and others, 1980

Scroggin, M. P.

1978 Cationic flotation of sylvite, *in* Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 65-67, 3 figs.

Scully, Leo W.

1979 WIPP facility design: Geological Disposal Nuclear Waste, 19th ann. symp., p. 63-69

Seager, William R.

1977 Rio Grande rift in southern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 72

1978a Road log to Organ and Doña Ana calderas, in Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 73-82, 8 figs.

1978b Geologic cross sections through the Emory cauldron, Black Range, New Mexico, *in* Field guide to selected cauldrons and mining districts of the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, sheet in pocket

1980 Quaternary fault system in the Tularosa and Hueco Basins, southern New Mexico and west Texas: New Mexico Geol. Soc., Guidebook 31st field conf., Trans-Pecos, p. 131-135, 4 figs.

1978 (and Brown, L. F.) The Organ caldera, in Field guide to selected cauldrons and mining districts in the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 139–149, 1 table, 6 figs.

1978 (Clemons, R. E., and Elston, W. E.) Second

day, road log from intersection of I-25 and NM-90 to Silver City with side trip to Tierra Blanca, *in* Field guide to selected cauldrons and mining districts in the Datil-Mogollon volcanic field, New Mexico, C. E. Chapin and W. E. Elston, editors: New Mexico Geol. Soc., Spec. Pub. 7, p. 33-48, 15 figs.

1976 (Kottlowski, F. E., and Hawley, J. W.) Geology of Doña Ana Mountains, New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 147, 36 p., 2 tables, 13 figs., 3 maps, 4 appendices

1978a (and Morgan, Paul) San Diego Mountain, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 82–83

1978b (and Morgan, Paul) Caballo Reservoir, in Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 85-87

1979 (and Morgan, Paul) Rio Grande rift in southern New Mexico, west Texas, and northern Chihuahua, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 87-106, 8 figs.; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487-C, p. 88-89

1978 (Morgan, Paul, and Hawley, J. W.) Rincon overlook, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, p. 79–81

see Clemons and Seager, 1978; Hawley, Lovejoy, and others, 1978; Hawley and Seager, 1978; Kottlowski, Seager, and others, 1977; Lovejoy and Seager, 1978; and Woodward, Callender, and others, 1978

Segerstrom, Kenneth

1979 (Stotelmeyer, R. B., and Williams, F. E.) Mineral resources of the White Mountain Wilderness and adjacent areas, Lincoln County, New Mexico: U.S. Geol. Survey, Bull. 1453, 135 p., 3 tables, 20 figs., 2 sheets in pocket

Sengupta, M. K.

1977 (and Ward, R. W.) Three-dimensional seismic reflection survey near Socorro, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 12, p. 1184

see Ward, R. W., and Sengupta, 1977

Senterfit, R. M.

see Hoover and others, 1978

Seward, P. D.

see Statler, R. D., and Seward, 1979a-h

Shaffer, Sue-Ellen

1979a Logs, *in* Basic data report for drillhole WIPP 13: Sandia Lab., Rept. SAND79-0273, appendix D, p. D1

1979b Logs, *in* Basic data report for drillhole WIPP 25: Sandia Lab., Rept. SAND79-0279, appendix D, p. D1

1979c Logs, *in* Basic data report for drillhole WIPP 27: Sandia Lab., Rept. SAND79-0281, appendix D, p. D1

1979d Logs, in Basic data report for drillhole WIPP 29: Sandia Lab., Rept. SAND79-0283, appendix D, p. D1

see Powers, D. W., and Shaffer, 1979a-c

Shaffer, W. L.

see Woodward, Callender, and others, 1978

Shafiqullah, Muhammad

see Baldridge, Damon, and others, 1980; Brookins, Lee, and Shafiqullah, 1977; Deal, Elston, and others, 1978; Kudo and others, 1977; Laughlin, Brookins, Damon, and Shafiqullah, 1979; and Lee, Brookins, and Shafiqullah, 1977

Shankland, T. J.

1978 Simultaneous consideration of electrical and elastic anomalities in rift zones, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 89

Shannon, S. S.

see Sakai and others, 1976

Shantz, Robert F.

1976 Cyanide leaching of chalcocite: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 65, 213 p., 45 tables, 12 figs., 3 appendices

1977a Mineral processing in New Mexico: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1976-77, p. 76-79

1977b Calculating heat content from ash percentage for New Mexico coals: Coal Mining and Processing, v. 14, no. 5, p. 112–114

1977c Strategy for coal-washing operations in New Mexico: New Mexico Bureau Mines Mineral Resources, Prog. Rept. 9, 7 p., 2 tables, 1 fig.

1978 Washability tests and heat-content predictions for New Mexico coals: New Mexico Bureau Mines Mineral Resources, Prog. Rept. 10, 16 p., 28 tables, 3 figs.

1979 Mining, milling, and smelting operations in southwest New Mexico: New Mexico Geology, v. 1, no. 2, p. 24–26, 2 figs.

Sharp, R. R., Jr.

1978 (Morris, W. A., and Aamodt, R. L.) Uranium hydrogeochemical and stream sediment reconnaissance data release for the New Mexico portions of the Douglas, Silver City, Clifton, and St. Johns NTMS quadrangles, New Mexico, Arizona: Los Alamos Sci. Lab., Rept. 7180, 123 p.; Natl. Tech. Inf. Serv., Rept.; U.S. Dept. Energy, Rept. GJBX-69-78, 123 p. Sharrock, Roy G.

1978 Las Milpas gas storage unit, in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 5-8, 5

Shaw, Alan B.

1977 A review of some aspects of evaporite deposition: Mtn. Geologist, v. 14, no. 1, p. 1-16, 1 table, 7 figs.

Shaw, D. M.

see Helsen and others, 1978

Shaw, H. R.

1976 (Smith, R. L., and Hildreth, Wes) Thermogravitational mechanisms for chemical variations in zoned magma chambers (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 1102

Shearer, Charles R.

1978 (and Reiter, M. A., compilers) Basic heatflow data in New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 93, computer printout

see Edwards and others, 1978; Reiter, Edwards,

Mansure, and Shearer, 1978; Reiter, Edwards, Shearer, Fisher, and others, 1976; Reiter, Edwards, Shearer, McGrath, and Mansure, 1976; Reiter, Mansure, and Shearer, 1979a,b; Reiter and Shearer, 1979, 1980; and Reiter, Shearer, and Edwards, 1978

Sheffer, Herman W.

1979 (and Eveleth, R. W.) Minerals in the economy of New Mexico: U.S. Bureau Mines, State Mineral Profile, 20 p., 8 tables, 4 figs., 1 sheet

1978 (and Eveletti, R. W.) Minerals in the economy of New Mexico: U.S. Bureau Mines, State Mineral Profile 5, 18 p., 5 tables, 2 figs.

1978 (Inglis, M. H., and others) Landsat monitoring of the Navajo coal surface mine: Am. Soc. Photogrammetry, Proc., p. 523-539

see Eveleth and Sheffer, 1978; and Inglis and others, 1978

Shelby, James E.

see Jambon and Shelby, 1980

Shepherd, R. G.

1976 Sedimentary processes and structures of ephemeral-stream point bars, Rio Puerco near Albuquerque, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 1103

1978 Distinction of aggradational and degradational fluvial regimes in valley-fill alluvium, Tapia Canyon, New Mexico, *in* Fluvial sedimentology, A. D. Miall, editor: Canadian Soc. Petroleum Geologists, Mem. 5, p. 277-286

1978 (and Macke, D. L.) Discrimination of fluvial and eolian deposits by number-frequency analysis of sediments of sand through silt size from a point bar, Rio Puerco, New Mexico: U.S. Geol. Survey, Jour. Research, v. 6, no. 4, p. 499-504, 5 figs.

Sheridan, Michael F.

1979 (and Burt, D. M.) A model for the genesis of uranium/lithophile element deposits related to rhyolitic volcanism (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 515

see Bikun and others, 1980; Burt and Sheridan, 1980; and Wohletz and Sheridan, 1976

Sherwood, P. B.

1980 (and Marquis, M. A.) The Baca data dissemination program: Geothermal Resources Coun., Trans., v. 4, September, p. 531-532

Shetiwy, Mohamed M.

1978 Sedimentologic and stratigraphic analysis of the Point Lookout Sandstone, southeastern San Juan Basin, New Mexico: Ph.D. thesis, New Mexico Inst. Mining and Tech., 262 p.

Shirts, M. B.

see Beard and others, 1980

Shive, P. N.

1979 (Liebes, E., and Steiner, M. B.) Remanence acquisition in the Moenkopi Formation of the Colorado Plateau (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 237

Shomaker, John W.

1976 (and Stone, W. J.) Availability of ground water for coal development in San Juan Basin, New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 154, p. 43–48, 4 figs.

1977 (and Whyte, M. R.) Geological appraisal of deep coals, San Juan Basin, New Mexico: New Mex-

ico Bureau Mines Mineral Resources, Circ. 155, 39 p., 6 tables, 13 figs., 2 appendices

see Beaumont and Shomaker, 1977; Beaumont and others, 1976; Kottlowski, Beaumont, and Shomaker, 1976, 1977; Speer and others, 1977; and Whyte and Shomaker, 1977a,b

Shroba, Ralph R.

1977 Soil development in Quaternary tills, rockglacier deposits, and taluses, southern and central Rocky Mountains: Ph.D. thesis, Univ. Colorado (Boulder), 449 p.; Dissert. Abs. Internat., 1978, v. 38, no. 7, p. 3098-B

Shuleski, Paul J.

1976 Seismic fault motion and SV screening by shallow magma bodies in the vicinity of Socorro, New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 8, 94 p.

1977 (Caravella, F. J., Rinehart, E. J., Sanford, A. R., Wallace, T. C., and Ward, R. M.) Seismic studies of shallow magma bodies beneath the Rio Grande rift in the vicinity of Socorro, New Mexico: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 13, 8 p.; Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 73

see Sanford, Mott, and others, 1977; and Sanford, Rinehart, and others, 1977

Shurbet, D. H.

1978 (and Cebull, S. E.) The Delaware Basin—a late phase of an aulacogen? (abs.): New Mexico Acad. Sci., Bull., v. 18, no. 1, p. 16

Sibbitt, Wilmer L.

1976 Preliminary measurements of the thermal conductivity of rocks from LASL geothermal test holes GT-1 and GT-2: Los Alamos Sci. Lab., Rept. LA-6199-MS, 8 p.

1978 (Dodson, J. G., and Tester, J. W.) Thermal conductivity of rocks associated with energy extraction from hot dry rock geothermal systems: Natl. Tech. Inf. Serv., Rept. LA-UR-78-1240, 25 p.; *abs. in* New Mexico Geology, 1979, v. 1, no. 3, p. 47

1979 (Dodson, J. G., and Tester, J. W.) Thermal conductivity of crystalline rocks associated with energy extraction from hot dry rock geothermal systems: Jour. Geophys. Research, v. 84, no. B3, p. 1117–1124

Siciliano, C. L. B.

see Brown, M. C., and others, 1979; and Kaufman, E. L., and Siciliano, 1979, 1980

Siemers, Charles T.

1978a Generation of a simplified working depositional model for repetitive coal-bearing sequences using field data—an example from the Upper Cretaceous Menefee Formation (Mesaverde Group), northwestern New Mexico, *in* Proceedings of the second symposium on the geology of Rocky Mountain coal—1977: Colorado Geol. Survey, Resource Ser. 4, p. 1–22, 5 tables, 19 figs.

1978b Core and wire-line log analysis of a coalbearing sequence—lower part of the Upper Cretaceous Menefee Formation (Mesaverde Group) northwestern New Mexico, *in* Proceedings of the second symposium on the geology of Rocky Mountain coal—1977: Colorado Geol. Survey, Resource Ser. 4, p. 165–180, 5 figs., 10 photos

1979 Sedimentology and petrology of Pennsylvanian strata, central and eastern Rowe-Mora Basin, southeastern Sangre de Cristo Mountains, New Mexico (abs.): Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 201-202; New Mexico Geology, v. 1, no. 1, p. 61

1977 (and Wadell, J. S.) Humate deposits of the Menefee Formation (Upper Cretaceous) northwestern New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, Suppl. Articles, p. 1–21, 9 tables, 21 figs.

see Owen and Siemers, 1977

Siemers, W. Terry

1978 Stratigraphy, petrology, and paleoenvironments of the Pennsylvanian system of the Socorro region, west-central New Mexico: Ph.D. thesis, New Mexico Inst. Mining and Tech., 259 p.

1979 Summary of mining and mineral-processing operations in New Mexico: New Mexico Geology, v.

1, no. 4, p. 56

1979a (and Austin, G. S.) Industrial rocks and minerals of New Mexico: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1977-78, p. 43-61, 2 tables, 2 figs.

1979b (and Austin, G. S.) Mines, processing plants, and power plants in New Mexico: New Mexico Bureau Mines Mineral Resources, Resource Map 9, 25 p. text, scale 1:1,000,000

1980 (Austin, G. S., and Kottlowski, F. E.) Industrial rocks and minerals of New Mexico (abs.): Am. Inst. Mining, Metallurgical, and Petroleum Engineers, Ann. Mtg., Prog., p. 67

1976 (and Blakestad, R. B., Jr.) Revision of upper Paleozoic stratigraphy in the Magdalena area, New Mexico (abs.): Geol. Soc. America, Abs. with Pro-

grams, v. 8, no. 5, p. 629-630

1978 (Hawley, J. W., Rautman, C. A., and Austin, G. S.) Evaluation of the mineral potential (excluding hydrocarbons, potash, and water) of the Waste Isolation Pilot Plant site, Eddy County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 87, 48 p., 5 tables, 2 figs., appendix

see Armstrong, A. K., Kottlowski, and others, 1980; and Eveleth and Siemers, 1980

Siems, D. F.

see Alminas, Watts, and others, 1978a-d; Watts, Hassemer, Forn, and Siems, 1979; Watts, Hassemer, Nishi, and Siems, 1978; and Watts, Hassemer, Siems, and Nishi, 1978

Signor, Donald C.

see Brown, R. F., and others, 1976

Sikri, Atam P.

see Weiber and Sikri, 1978

Silberman, Miles L.

see Armstrong, A. K., Silberman, and others, 1978; Hoggatt and others, 1977; and Snyder, W. S., and others, 1976

Silver, B. A.

1976 (and Wermiel, D. E.) Diagenetic history of Mississippian carbonate rocks, Pedregosa Basin, southeastern Arizona, southwestern New Mexico, northeastern Sonora, and northwestern Chihuahua (abs.): Am. Assoc. Petroleum Geol., Bull., v. 60, no. 4, p. 723

see Bahlburg and Silver, 1976

Silver, Leon T.

1978 (and McGetchin, T. R.) The nature of the basement beneath the Colorado Plateau and some implications for plateau uplifts, *in* Plateau uplift—mode and mechanism: Lunar and Planet. Inst., p. 45

see Everson and Silver, 1978

Silver, R. M.

1979 (and Comeau, S. P.) Geothermal energy—problems and short comings of classification of a unique resource—a look at problems with water law, with particular emphasis on New Mexico: Natural Resources Jour., v. 19, no. 2, p. 445–459; Sel. Water Resources Abs., 1980, v. 13, no. 1, p. 56

Simanton, J. R.

see Osborn and others, 1979

Simmons, Gene

1976 (and Eddy, A. C.) Microcracks in the GT-2 core (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 353

see Reiter, Simmons, and others, 1976

Simonson, E. R.

see Pratt and Simonson, 1976

Simpson, D. N.

1978 Entries from the surface to new mines: Mining Engineer, v. 137, no. 202, p. 601-615, 6 tables, 5 figs. Simpson, J.

see Strangway and others, 1976

Simpson, John J.

1977 Give us 300 billion barrels: Petroleum Today, v. 18, no. 2, p. 11-15

Simpson, L. C.

1978 Comments on the pelycosaur *Edaphosaurus* and the validity of the species *E. minuta* Tasch: Jour. Paleontology, v. 52, p. 211–212

Simpson, Ronald D.

1980 (and LeMone, D. V.) Brachiopod biostratigraphy of the Hueco Group (Wolfcamp), Franklin Mountains, Texas and New Mexico (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 54–55

1978a (LeMone, D. V., and Thompson, Sam, III) Silicified brachiopod fauna of the Permian Concha Limestone (Leonard), Big Hatchet Mountains, Hidalgo County, New Mexico (abs.): New Mexico Jour.

Sci., v. 18, no. 2, p. 35

1978b (LeMone, D. V., and Thompson, Sam, III) Conodonts from the Concha—preliminary analysis of the limestone (Leonardian) of the Big Hatchet Mountains, Hidalgo County, New Mexico (abs.): New Mexico Jour. Sci., v. 18, no. 2, p. 35

see Cornell and Simpson, 1980; Kottlowski, Seager, and others, 1977; LeMone and Simpson, 1977; LeMone, Simpson, and Thompson, 1978; and Thompson, S., LeMone, and Simpson, 1977

Singh, Surendra

1978 Geomagnetic activity and microearthquakes: Seismol. Soc. America, Bull., v. 68, no. 5, p. 1533-1535

Sinno, Y. A.

see Keller, G. R., Sinno, and others, 1979

Siruta, W. A.

1977 (and Foltz, G. A.) Hobbs Drinkard field, Lea County, New Mexico, in The oil and gas fields of

southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 121, 1 table *see* Foltz and Siruta, 1977

Skeryanc, Anthony J.

1977 Texture, fabric, and composition of finegrained terrigenous sediments from the Graneros Member of the Mancos Shale, San Juan Basin, New Mexico: M.S. thesis, Univ. New Mexico, 137 p.

Slack, Paul B.

1976 (and Campbell, J. A.) Structural geology of the Rio Puerco fault zone and its relationship to central New Mexico tectonics, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 46–52, 7 figs.; Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 630–631 Sloggett, G.

1977 Mining the Ogallala aquifer—state and local efforts in ground-water management: Oklahoma State Univ., Agric. Exp. Station, Resource Rept. P-761, 24 p.

Smart, Eugene

1979 Observations of seismic surface-wave scattering phenomena in the western United States (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 324

Smartt, Richard A.

1977 The ecology of late Pleistocene and Recent *Microtus* from south-central and southwestern New Mexico: Southwestern Naturalist, v. 22, no. 1, p. 1-19

Smith, A. Richard

1978a Sulfur deposits in Ochoan rocks of southeast New Mexico and west Texas, *in* Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 71-77, 1 table, 6 figs.

1978b Geology, in The caves of McKittrick Hill, Eddy County, New Mexico—history and results of field work, 1965–1976, C. E. Kunath, editor: Texas Speleological Soc., p. 56–57

1979 Solution scarp and related fissure system, Yeso Hills, Culberson County, Texas, and Eddy County, New Mexico (abs.): Natl. Speleological Soc., Bull., v. 41, no. 117

1980 Sulfur deposits in Ochoan rocks of the Gypsum Plain, southeast New Mexico and west Texas: New Mexico Geol. Soc., Guidebook 31st field conf., Trans-Pecos, p. 277-283, 2 tables, 7 figs.

Smith, Christian S.

1976 Deep resistivity surveys in the Rio Grande rift, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 631-632

1977 On the electrical evaluation of three southern New Mexico geothermal areas: M.S. thesis, Univ. New Mexico, 113 p.

1978 Geophysics, geology, and geothermal leasing status of the Lightning Dock KGRA, Animas Valley, New Mexico: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona,p. 343–348, 9 figs.

1977 (Jiracek, G. R., and Ander, M. E.) Deep electrical investigations of geothermal prospects in the

Basin and Range province of southern New Mexico (abs.): Geophysics, v. 42, no. 1, p. 183

see Hart, D. L., Jr., and Smith, 1979a,b; Jiracek and Smith, 1976; Jiracek, Smith, and others, 1977; and Jiracek, Smith, and Gerety, 1976

Smith, Clay T.

1980 (and Colpitts, R. M., Jr.) Geology of Cieneguilla Creek drainage basin in southwest Colfax County, New Mexico: New Mexico Geology, v. 2, no. 1, p. 1-3, 13-15, 1 table, 2 figs.

Smith, D.

see McGetchin, Smith, and others, 1977; Roden and others, 1979; and Wilshire and others, 1977

Smith, D. A.

1980 (and Peterson, R. J.), Geology and recognition of a relict uranium deposit in sec. 28, T. 14 N., R. 10 W., southwest Ambrosia Lake area, McKinley County, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 215-225, 14 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 19-20

Smith, Douglas L.

1978a (and Jones, R. L.) Thermal evidence for extension of the Rio Grande rift into northern Mexico, abs. in International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 90-91

1978b (and Jones, R. L.) Thermal anomaly in northern Mexico—an extension of the Rio Grande rift?, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 269-278

1976 (and Levy, Susan) Petrology of the Green Knobs diatreme and implications for the upper mantle below the Colorado Plateau: Earth and Planet. Sci. Letters, v. 29, no. 1, p. 107-125, 9 figs., 4 tables

Smith, Eugene I.

1976 Structure and petrology of the John Kerr Peak dome complex, southwestern New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 71-78, 3 tables, 9 figs.

1976 (Aldrich, M. J., Jr., Deal, E. G., and Rhodes, R. C.) Fission-track ages of Tertiary volcanic and plutonic rocks, Mogollon Plateau, southwestern New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 117–118, 1 table

see Rhodes, R. C., and Smith, 1976

Smith, Gerald N.

see Ryder and others, 1980

Smith, Grant

1977 Todd San Andres (gas) field, Roosevelt County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 194–195, 1 table, 1 fig.

Smith, J. L.

1980 (Matlick, J. S., and Ehni, W. J.) Summary of 1979 geothermal drilling, western United States: Geothermal Energy, v. 8, no. 7, p. 3–14

Smith, J. W.

1975 The Permian Basin as a radioactive waste repository: Union Carbide Corp., Office Waste Isolation, Rept. Y/OWI/SUB-4495/1

Smith, Jeffry A.

1976 Developments in west Texas and eastern New Mexico in 1975: Am. Assoc. Petroleum Geologists, Bull., v. 60, no. 8, p. 1243–1250, 5 tables, 1 fig.

1977 Oil and gas exploration in the Permian Basin, in Gas fields in west Texas: West Texas Geol. Soc., v. III, p. 1-3

Smith, Kathleen S.

see Hinkley and others, 1980a,b

Smith, L. T.

1976 A regional uranium anomaly in the Precambrian basement of the Colorado Plateau (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 1107-1108

Smith, Morton C.

1975 The Los Alamos Scientific Laboratory dry hot rock geothermal project (LASL Group Q-22): Geothermics, v. 4, no. 1-4, p. 27-39

1976 The LASL dry hot rock concept (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 349

1978 Heat extraction from hot, dry, crustal rock, in Geothermics and geothermal energy, L. Rybach, editor: Pure and Applied Geophysics, v. 117, no. 1–2, p. 200–296

see Cremer and others, 1980

Smith, R.

see Reiter and Smith, 1977

Smith, R. C.

see Asquith, Gilbert, and Smith, 1976

Smith, Robert L.

1980 The Valles caldera, Jemez Mountains, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1150

1978 (Bailey, R. A., and Russell, S. L.) The volcanic evolution of the Jemez Mountains and its relationship to the Rio Grande rift, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 91-92

see Bailey, R. A., and Smith, 1978; Luedke and Smith, 1979; Shaw, H. R., and others, 1976; and Warshaw and Smith, 1980

Smith, Robert W.

1979 Evaluation of solution-mineral equilibria in the small scale solution mining of copper: M.S. thesis, New Mexico Inst. Mining and Tech., 77 p.

1980 (and Popp, C. L.) Factors controlling water composition of the Rio Grande, central New Mexico (abs.): New Mexico Geology, v. 2, no. 3, p. 48

Smithson, Scott B.

1977 (and McCullar, D. B.) Unreversed seismic crustal refraction profile across the southern Rio Grande rift (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 12, p. 1184

see Cook, Decker, and Smithson, 1978; Cook, Mc-Cullar, and others, 1979; Decker and Smithson, 1977; and Ramberg and others, 1978

Smyth, Joseph R.

see McCormick and Smyth, 1980

Snyder, Don O.

see Woodward and Snyder, 1976a,b; and Woodward, Snyder, and Husler, 1978

Snyder, R. P.

1979 (and McIntyre, A. F.) Geological data, *in* Basic data report for drillhole WIPP 29: Sandia Lab., Rept. SAND79–0283, p. 4–18, 3 tables, 2 figs.

Snyder, W. S.

1976 (Dickinson, W. R., and Silberman, M. L.) Tectonic implications of space-time patterns of Cenozoic magmatism in western United States: Earth and Planet. Sci. Letters, v. 32, no. 1, p. 91–106, 7 figs.

Solomon, George C.

1976 (and Kerrick, D. M.) Experimental hydrothermal alteration of granitic rocks, with implications for dry, hot-rock geothermal energy (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 1114

Sommer, Michael A., II

1977 Volatiles H₂O, CO₂, and CO in silicate melt inclusions from the rhyolitic Bandelier air-fall and ash-flow tuff, New Mexico: Jour. Geology, v. 85, no. 4, p. 423-432, 4 tables, 8 figs.

1978 Volatiles in silicate melt inclusions from the air-fall and ash-flow tuffs of the Bandelier Tuff, Jemez Mountains, New Mexico (abs.): Geol. Soc. America, Abs. with Program, v. 10, no. 7, p. 495

Sondermayer, R. V.

1976 The mineral industry of New Mexico: U.S. Bureau Mines, Mineral Yearbook, 1973, v. 2, p. 469-487

Sorenson, Earl F.

1977 Water use by categories in New Mexico counties and river basins, and irrigated and dry cropland acreage in 1975: New Mexico State Engineer, Tech. Rept. 41, 34 p.

Soule, P. L.

1979 (and Wilkins, D. W.) Water-resources investigations of the U.S. Geological Survey, New Mexico district, fiscal year 1978: U.S. Geol. Survey, Openfile Rept. 79–560, 134 p., 29 figs.; Sel. Water Resources Abs., v. 12, no. 24, p. 39

Spaw, J. M.

1977 Paleo-environments of Middle Pennsylvanian *Chaetetes* lithotopes, Texas and New Mexico: M.S. thesis, Rice Univ.; Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 74-75

Speer, William R.

1976 Oil and gas exploration in the Raton Basin: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 217–226, 4 figs.

1977 (Beaumont, E. C., and Shomaker, J. W.) Coal resources of the San Juan Basin, New Mexico: New Mexico Bureau Mines Mineral Resources, Openfile Rept. 84, 103 p., 4 tables, 3 figs., 7 sheets

Spence, Barbara J.

1980 National Coal Resources Data System in New Mexico: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1978-79, p. 34-37, 2 figs.

Spence, William

1979 (Gross, R. S., and Jaksha, L. H.) P-wave velocity structure beneath the central Rio Grande rift (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 46, p. 953-954

1978 (and Jaksha, L. H.) Teleseismic P-wave delays across the central Rio Grande rift, abs. in International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 93-94

Spencer and Hutson

1977 Humble City field, Lea County, New Mexico, in The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 122–123, 1 table, 1 fig.

Spencer, Charles W.

1978a Tocito Dome Pennsylvanian "D" (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 522–527, 5 figs.

1978b Tocito Dome Pennsylvanian, north (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 528-531, 4 figs.

Spencer, Patrick K.

1980 Stratigraphy, lithology, and depositional environment of the Black Prince formation, southeastern Arizona and southwestern New Mexico: M.S. thesis, Western Washington Univ.

Spiegel, Zane E.

1976 Fundamental concepts of hydrogeology applied to the Pecos Valley and related aquifer systems: New Mexico State Engineer, rept., 46 p.

Spradlin, Ernest J.

1976 Stratigraphy of Tertiary volcanic rocks, Joyita Hills area, Socorro County, New Mexico: M.S. thesis, Univ. New Mexico, 73 p.

Springett, M. S.

1980 The exploration of the Ortiz gold deposit, New Mexico—sampling and ore reserves: Colorado Mining Assoc., Mining Yearbook, p. 113-120

Squires, Richard L.

1976 Pseudoreefs in the San Andres Formation, Guadalupe Mountains, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 634-635

Squyres, John B.

1980 Origin and significance of organic matter in uranium deposits of Morrison Formation, San Juan Basin, New Mexico, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 86–97, 16 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 20

Sridhar, K.

1978 (Jackson, M. L., Clayton, R. N., Gillette, D. A., and Hawley, J. W.) Oxygen isotopic ratios of quartz from wind-erosive soils of southwestern United States in relation to aerosol dust: Soil Sci. Soc. America, Jour., v. 42, no. 1, p. 158–162, 5 tables, 2 figs.

Stalkup, F. I.

1978 Carbon dioxide miscible flooding—past, present, and outlook for the future: Jour. Petroleum Tech., v. 30, August, p. 1102–1112, 2 tables, 9 figs.

Stanley, Jack R.

1977a (and Tipton, Steven) Burton Flat Morrow field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 66-67, 1 table, 1 fig.

1977b (and Tipton, Steven) Rock Tank Morrow field, Eddy County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 166-167, 1 table, 1 fig.

see Jons and Stanley, 1976

Statler, R. D.

1979a (and Seward, P. D.) Drilling and testing plan, *in* Basic data report for drillhole WIPP 13: Sandia Lab., Rept. SAND79-0273, appendix B, p. B1-B21

1979b (and Seward, P. D.) Hole history, *in* Basic data report for drillhole WIPP 13: Sandia Lab., Rept. SAND79-0273, appendix C, p. C1-C12

1979c (and Seward, P. D.) Drilling and testing plan, *in* Basic data report for drillhole WIPP 25: Sandia Lab., Rept. SAND79-0279, appendix B, p. B1-B24

1979d (and Seward, P. D.) Hole history, *in* Basic data report for drillhole WIPP 25: Sandia Lab., Rept. SAND79-0279, appendix C, p. C1-C9

1979e (and Seward, P. D.) Drilling and testing plan, *in* Basic data report for drillhole WIPP 27: Sandia Lab., Rept. SAND79-0281, appendix B, p. B1-B24

1979f (and Seward, P. D.) Hole history, *in* Basic data report for drillhole WIPP 27: Sandia Lab., Rept. SAND79-0281, appendix C, p. C1-C10

1979g (and Seward, P. D.) Drilling and testing plan, *in* Basic data report for drillhole WIPP 29: Sandia Lab., Rept. SAND79-0283, appendix B, p. B1-B24, 3 figs.

1979h (and Seward, P. D.) Hole history, *in* Basic data report for drillhole WIPP 29: Sandia Lab., Rept. SAND79–0283, appendix C, p. C1–C9

Stearns, Charles E.

1979 New K-Ar dates and the late Pliocene to Holocene geomorphic history of the central Rio Grande region, New Mexico—discussion: Geol Soc. America, Bull., v. 90, no. 8, pt. 1, p. 799-800

Steele, B. A.

see Campbell, J. A., and Steele, 1976

Steensma, Rene S.

1979 Feasibility study of gravitational ore separation, Hansonburg mining district, central New Mexico: New Mexico Geology, v. 1, no. 4, p. 55, 58, 2 figs.

see Kottlowski and Steensma, 1979

Steiner, Maureen B.

see Shive and others, 1979

Steinhaus, D. W.

see Morris, Bunker, and Steinhaus, 1979

Steinpress, Martin G.

1980 Neogene stratigraphy and structure of the Dixon area, Española Basin, north-central New Mexico: M.S. thesis, Univ. New Mexico, 127 p.; Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 306

Stensrud, Howard L.

see Gresens and Stensrud, 1977

Stephenson, William A.

see Bivens and others, 1979

Stevens, Donald G.

1977a Twin Lakes Devonian fields, Chaves County, New Mexico, in The oil and gas fields of

southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 206-207, 1

table, 1 fig.

1977b Twin Lakes San Andres field, Chaves County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 208–209, 1 table, 1 fig.

Stevenson, G. M.

1978 Middle Canyon Dakota (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 421-422, 2 figs.

1977 (and Baars, D. L.) Pre-carboniferous paleotectonics of the San Juan Basin, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 99-110, 1 table, 8 figs.

1978 (and Matheny, M. L.) Kutz Gallup (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 363–365, 4 figs.

see Baars and Stevenson, 1977, 1979

Stewart, B. S.

see Goff and others, 1978

Stewart, Dion C.

1979 (and Windom, K. E.) The role of water in the development of a hybrid columnar-pillow structure in basalt (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 636

Stewart, J. N.

see Olsen, K. H., Keller, and Stewart, 1979; Olsen, K. H., Keller, Stewart, and others, 1977; and Olsen, K. H., and Stewart, 1979

Stewart, Wendell J.

see Armstrong, A. K., Kottlowski, and others, 1980

Stewart, William P.

1977 Casey Strawn field, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 72–73, 1 table, 1 fig.

Stewart-Gordon, T. J.

1978 New pays develop new plays in the Permian Basin: World Oil, v. 186, no. 6, p. 68-74, 3 figs.

Stichtenoth, Craig W.

see Gibson, W. R., and Stichtenoth, 1979

Stinnett, James W., Jr.

1980 A geochemical study of calc-alkaline andesites and associated volcanic rocks from the Mogollon-Datil field, southwestern New Mexico: Ph.D. thesis, Miami Univ. (Ohio), 271 p.

1976 (and Stueber, A. M.) A strontium isotopic and geochemical study of volcanic rocks from the Datil-Mogollon field, southwestern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 636-637

Stoker, A. K.

see Purtymun, Adams, and others, 1977; Purtymun, Peters, and Stoker, 1980; and Purtymun, Stoker, and others, 1978

Stone, J. Fred

1978 Pollen and spores, in Geology, paleontology, and paleoecology of a Late Triassic lake, western New Mexico, S. R. Ash, editor: Brigham Young

Univ., Geology Studies, v. 25, pt. 2, p. 45-59, 4 tables, 7 figs.

see Ash, Dean, and others, 1978

Stone, William J.

1976a Index to Bureau water-resource data: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1975-76, p. 38-43, 1 table, 1 fig.

1976b Hydrogeologic considerations in mining and development of energy resources, San Juan Basin, New Mexico: Am. Inst. Mining and Engineering, 105th Ann. Mtg., preprint 76-AG-74

1976c Origin of a fan-edge boulder deposit, eastern Organ Mountains, Doña Ana County, New Mexico (abs.): Arizona Acad. Sci., Jour., v. 11, p. 93–94

1979a Descriptions of sections measured for hydrogeologic study of the San Juan Basin, northwest New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 90, 134 p., 4 tables, 2 figs., 1 sheet, 1 appendix

1979b Basic petrographic data compiled for hydrogeologic study of the San Juan Basin, northwest New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 91, 43 p., 2 tables, 6 figs., 1 appendix

1979c Hydrologic constraints and impacts associated with uranium extraction, San Juan Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 524

1978 (Brod, R. C., and Anderholm, S. K.) Descriptions of cuttings from Navajo water wells in New Mexico, 1977: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 82, 83 p., 1 table, 1 fig.

1977 (and Foster, R. W.) Hydrogeologic studies of the Socorro landfill site: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 86, 72 p., 5 tables, 5 figs., 2 appendices

1980 (and Jackson, R.) Description of cuttings from Navajo water wells in New Mexico, 1978 and 1979: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 114, 26 p., 1 table, 1 fig., 1 appendix

1978 (and Lyford, F. P.) Ground-water resources of northwestern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 5, p. 220

1977 (and Mizell, N. H.) Geothermal resources of New Mexico—a survey of work to date: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 73, 123 p., 7 tables, 17 figs., 1 sheet, appendix

1978 (and Mizell, N. H.) Basic subsurface data compiled for hydrogeologic study of the San Juan Basin, northwest New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 89, 44 p., 1 table, 2 figs., 28 sheets

1979 (Mizell, N. H., and Hawley, J. W.) Availability of geological and geophysical data for the eastern half of the U.S. Geological Survey's southwestern alluvial basins, regional aquifer study, New Mexico: New Mexico Bureau Mines Mineral Resources, Openfile Rept. 109, 80 p., 14 figs., 3 appendices

see Arnold, Foster, and others, 1976; Beaumont and others, 1976; Brown, D. R., and Stone, 1979; Foster, R. W., Austin, and others, 1977; Lyford, Frenzel, and Stone, 1979, 1980; Lyford and Stone, 1978; Mizell and Stone, 1979; Reiter and Stone, 1976; and Shomaker and Stone, 1976

Storhaug, Dennis G.

1978a Lone Pine Dakota "A" (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 385-386, 2 figs.

1978b Lone Pine Dakota "D" (oil), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 387-389, 3 figs.

Stormer, John C., Jr.

1978 Contemporaneous calc-alkaline and basinitenephelinite suites on the east flank of the Rio Grande depression, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 94-95

see David, W. P., and others, 1980; and Phelps, Blanchard, and Stormer, 1980

Stotelmeyer, Ronald B.

see Ratte, Gaskill, and others, 1979; and Seger-strom and others, 1979

Stoughton, Dean

see Davis, T. L., and Stoughton, 1979

Stout, John

1980 (and Bradley, Reta) United States province overviews (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 789

Stoyer, Charles H.

see Swanberg and others, 1977

Strachan, Donald G.

1976 Stratigraphy of the Jarilla Mountains, Otero County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 135 p.

Strain, William S.

1976 New formation names in the Cretaceous at Cerro de Cristo Rey, Doña Ana County, New Mexico: New Mexico Bureau Mines Mineral Resources, Mem. 31, p. 77–82, 5 tables, 1 fig.

Strangway, David W.

1976 (Simpson, J., and York, D.) Paleomagnetic studies of volcanic rocks from the Mogollon Plateau area of Arizona and New Mexico, *in* Cenozoic volcanism in southwestern New Mexico, W. E. Elston and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 5, p. 119–124, 1 table, 6 figs.

see Ander, Goss, and others, 1980; and Ander, Laughlin, and others, 1980

Strauss, Alan C.

1977 Preliminary evaluation of the seismic research observations (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 6, p. 442

Strimple, Harrell L.

1980 Pennsylvanian crinoids from Sangre de Cristo and Sacramento Mountains of New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 178, 17 p., 2 pls., 2 tables, 1 fig.

Strobell, John D., Jr.

1980 (Hayes, P. T., and O'Sullivan, R. B.) Preliminary geologic map of the Waterflow quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1253, scale 1:24,000

Stuart, C. J.

1979 Hunt's Hole maar volcano, Aden-Afton basalt field, Doña Ana County, south-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 525

1979 (and Brenner, M. G.) "Low-regime" base surge dunes—an example from Kilbourne and Hunt's Holes, south-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 7, p. 525

Stueber, Alan M.

see Stinnett and Stueber, 1976

Stump, B. W.

1980 (and Reinke, R. E.) Spall-like waveforms from explosive sources in alluvium (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1052 Styron, Clarence E.

1979 (Casella, V. R., Farmer, B. M., Hopkins, L. C., Jenkins, P. H., Phillips, C. A., and Robinson, B.) Assessment of the radiological impact of coal utilization: Natl. Tech. Inf. Serv., MLM-2514, 98 p., 29 tables, 4 figs., 6 appendices

Suchomel, Thomas J.

1976 Geology and mineralogy of the Harding pegmatite, Taos County, New Mexico: M.S. thesis, Univ. Illinois, 88 p., 4 tables, 13 figs., 1 sheet

Suczek, Christopher A.

see Dickinson and Suczek, 1979

Suhr, G

see Kintzinger and others, 1978

Suits, Vivian J.

see Wenrich-Verbeck and Suits, 1979a,b

Sullivan, Michael W.

see Kirk and Sullivan, 1976

Sullivan, N. M.

1979 (editor) Guadalupian Delaware Mountain Group of west Texas and southeast New Mexico: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., 226 p.

Sullivan, R. M.

1979 Revision of the Paleogene genus *Glyptosaurus*—Reptilia Anguidae: Am. Museum Natural History, Bull., v. 163, art. 1, 72 p.

Summers, W. K., and Associates

see Herkenhoff and Associates and Summers, 1977

Summers, W. Kelly

1976a Catalog of thermal waters in New Mexico: New Mexico Bureau Mines Mineral Resources, Hydrol. Rept. 4, 80 p., 29 tables, 47 figs., 1 microfiche

1976b Hydrologic report on the pumping test of the Barton Water-Users Association well (9 N. 6 E., 36. 411), January 17-25, 1976: Socorro, W. K. Summers and Assoc., consult. rept. to Dennis Eng. Co., 103 p.

1976c Ortiz mine grant (Santa Fe County), ground-water resources, phase I, well and spring inventory: Socorro, W. K. Summers and Assoc., consult. rept., 63 p.

1977a Water resource and development, headquarters area, Vermejo Park Ranch, Colfax County, New Mexico: Socorro, W. K. Summers and Assoc., consult. rept. to Vermejo Park Corp., 13 p., 3 appendices

1977b Ground-water resources, Alto Village Deer Park Woods Subdivision (Lincoln County): Socorro, W. K. Summers and Assoc., consult. rept. to Lakeside Corp., 81 p.

1979 Hydrothermal anomalies in New Mexico: New Mexico Bureau Mines Mineral Resources, Resource Map 1 [revised], scale 1:1,000,000

Sumner, Ward

1980 Geology of the Water Canyon-Jordan Canyon areas, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 135, 152 p., 1 map; M.S. thesis, New Mexico Inst. Mining and Tech.

Sunada, Daniel K.

see Ethridge, Ortiz, Granger, and others, 1980; Ethridge, Ortiz, Sunada, and Tyler, 1980; and Ortiz, Ethridge, and Sunada, 1980

Sutherland, H. J.

1980 (and Cave, S. P.) Argon gas permeability of New Mexico rock salt under hydrostatic compression: Internat. Jour. Rock Mechanics and Mining Sci., and Geomechanics Abs., v. 17, no. 5, p. 281–288

Swan, Monte M.

see Allan and Swan, 1978

Swanberg, Chandler A.

1976 Geothermal studies in southwest New Mexico: New Mexico Energy Inst., Rept. 3, 69 p.; Natl. Tech. Inf. Serv., Rept. PB-295 836/1WE, 69 p.; abs. in New Mexico Geology, 1980, v. 2, no. 1, p. 13

1978 Chemistry, origin, and potential of geothermal resources of southwestern New Mexico: New Mexico Geol. Soc., Guidebook 29th field conf., southwestern Arizona, p. 349–351, 1 table, 3 figs.

1979 Chemistry of thermal and nonthermal groundwaters in the Rio Grande rift and adjacent tectonic provinces, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 279–288, 5 figs.; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Programs and Abs., Rept. LA-7487-C, p. 95–96

1977 (Morgan, Paul, Stoyer, C. H., and Witcher, J. C.) An appraisal study of the geothermal resources of Arizona and adjacent areas in New Mexico and Utah, and their value for desalinization and other uses: New Mexico Energy Inst., Rept. 6–1, 98 p.; Natl. Tech. Inf. Serv., Rept. PB-295 859/3WE, 98 p.; abs. in New Mexico Geology, 1980, v. 2, no. 1, p. 13

1979 (and Rybarczyk, S. M.) Potential for geothermal desalination in the southwest United States: New Mexico Jour. Sci., v. 19, no. 1, p. 9–14

see Harder and others, 1980; Lohse and others, 1980a,b; Morgan, P., Swanberg, and Lohse, 1980; and Morgan, P., Swanberg, and others, 1979

Swanson, Vernon E.

see Cannon, H. L., and Swanson, 1979

Sweet, W. C.

1977 Conodont biostratigraphy of the Late Ordovician Montoya Group, Texas and New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 76

1979 Late Ordovician conodonts and biostratigraphy of the western midcontinent province, *in* Conodont biostratigraphy of the Great Basin and Rocky Mountains, C. A. Sandberg, editor: Brigham Young Univ., Geology Studies, v. 26, pt. 3, p. 45-86

Swenson, David R.

1977 Stratigraphy, tetrology, and environments of deposition of the upper part of the Pennsylvanian Madera Formation near Jemez Springs, New Mexico: M.S. thesis, Univ. New Mexico, 172 p.

Szabo, Barnev J.

1980 (and Gottschall, W. C.) A preliminary study of uranium-thorium systematics in dissolution residues at the top of evaporites of the Salado Formation—implications to process and time, *in* Uranium series disequilibrium investigations related to the WIPP site, New Mexico: U.S. Geol. Survey, Openfile Rept. 80-879, 21 p.

see Ludwig and others, 1977

Tabet, David E.

1976a Geology of the Jornada del Muerto coal field, eastern Socorro County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 638-639

1976b Coal industry in the United States and New Mexico, *in* Legislative energy report, taxes and revenues: New Mexico Legislative Energy Comm., v. 2, pt. II, p. 1-25

1977a Reclamation of coal surface-mined lands in New Mexico: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1976-77, p. 81-85, 1 table, 1 fig.

1977b The relationship between coal and petroleum in the San Juan Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 76-77

1979a Geology of Jornada del Muerto coal field, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 168, 19 p., 1 table, 2 figs., 1 map

1979b Summary of the geology of the Engle coal field: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 115, 8 p.

1978 (and Frost, S. J.) Coal fields and mines of New Mexico: New Mexico Bureau Mines Mineral Resources, Resource Map 10, 3 tables, 4 figs., scale 1:1,000,000

1979a (and Frost, S. J.) Coal geology of Torreon Wash area, southeast San Juan Basin, New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 49, 3 sheets, scale 1:24,000

1979b (and Frost, S. J.) Environmental characteristics of Menefee coals in the Torreon Wash area, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 102, 141 p., 5 tables, 19 figs.. 3 appendices

1977 (Frost, S. J., and Kottlowski, F. E.) Cost to mine coal in New Mexico: New Mexico Bureau Mines

Mineral Resources, Open-file Rept. 78, 3 p.

1979 (Frost, S. J., and Kottlowski, F. E.) Depositional environments for Menefee Formation low-sulfur coals in southwest San Juan Basin of New Mexico: 9th Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 212; New Mexico Geology, v. 1, no. 4, p. 61

1976 (and others) Analysis of Landsat B imagery as a tool for evaluating, developing, and managing the natural resources of New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 76, 111 p., 9 tables, 24 figs., 1 sheet, 5 appendices

see Frost and others, 1980; and Kottlowski, Tabet, and Frost, 1980

Taggart, Joseph E.

1976 Harding pegmatite—outdoor museum and historical site: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1975-76, p. 44-46, 5 figs.

1979 (and Foord, G.) A review of rare mineral

species from the Hansonburg mining district, Bingham, New Mexico (abs.): Univ. New Mexico, New Mexico Minerals Symp., p. 8

1976 (and Grigsby, C. O.) An occurrence of multiple Japan-law quartz twins: Mineral. Record, v. 7,

no. 1, p. 34-35

1977 (and Renault, J. R.) Mineralogical analyses of cuttings from Sandia WIPP drill hole #9: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 70, 26 p.

Talley, D. A.

see Matheny, M. L., and Talley, 1978

Tang, Saihay

1978 Three-dimensional crustal-velocity model, beneath the Socorro, New Mexico, area from inversion of relative travel-time residuals: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 23, 40 p.

Tanzi, John D.

see Dolphin and others, 1978

Tasch, Paul

1978 Clam shrimps, *in* Geology, paleontology, and paleoecology of a Late Triassic lake, western New Mexico: Brigham Young Univ., Geology Studies, v. 25, no. 2, p. 61-65, 2 tables, 2 figs.

see Ash, Dean, and others, 1978

Taylor, Bruce

1980 (Roy, R. F., and Hoffer, J. M.) Hueco Tanks—an initial evaluation of a potential geothermal area near El Paso, Texas: Geothermal Resources Coun., Trans., v. 4, September, p. 253–256, 1 table, 3 figs.

Taylor, D. W.

1980 Late Cenozoic freshwater mollusca of New Mexico—an annotated bibliography: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 124, 51 p.

Taylor, Louis H.

1977 Geochronology of Torrejonian sediments, Nacimiento Formation, San Juan Basin, New Mexico: M.S. thesis, Univ. Arizona, 93 p.

1980 (and Butler, R. F.) Magnetic-polarity stratigraphy of Torrejonian sediments, Nacimiento Formation, San Juan Basin, New Mexico: Am. Jour. Sci., v. 280, no. 2, p. 97-115

see Butler, R. F., and Taylor, 1978

Taylor, Robert G.

1978 (Russell, T. W., and Foster, Mat) Pollution studies—Ogallala aquifer (abs.): New Mexico Jour. Sci., v. 18, no. 2, p. 37

Technology Application Center, University of New Mexico

1978 Soil erosion rates in New Mexico: New Mexico Natural Resources Dept., Soil and Water Conserv. Div., scale 1:1,000,000

Tennyson, J.

see Phinney and others, 1978

Tessendorf, Timothy N.

1980 Redistributed orebodies of Poison Canyon, sec. 18 and 19, T. 13 N., R. 9 W., McKinley County, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 226–229, 1 fig.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979,

Program, p. 20; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 694-695

Tester, Jefferson W.

1979 (and Albright, J. N.) Hot dry rock energy extraction field test—75 days of operation of a prototype reservoir at Fenton Hill, segment 2 of phase I: Los Alamos Sci. Lab., Rept. 7771, 104 p.

1979 (Morris, G. E., Cumming, R. G., and Bivins, R. L.) Electricity from hot dry rock geothermal energy—technical and economic issues: Natl. Tech. Inf. Serv., Rept. LA-7603-MS, 27 p.; abs. in New Mexico Geology, 1980, v. 2, no. 1, p. 13

see Duffield and Tester, 1978; Holley and others, 1978; Murphy, H. D., and others, 1978; Murphy, H. D., and Tester, 1979; Pettitt and Tester, 1978a, b; and Sibbitt and others, 1978, 1979

Texas Bureau of Economic Geology

1976 Hobbs sheet: Univ. Texas (Austin), Bureau Econ. Geology, Geologic Atlas Texas, 5 p., scale 1:250,000

1978 Clovis sheet: Univ. Texas (Austin), Bureau Econ. Geology, Geologic Atlas Texas, scale 1:250,000

Texas Instruments

1978 Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico—final report: U.S. Dept. Energy, Rept. GJBX-23-79

1979a Aerial radiometric and magnetic reconnaissance survey of portions of Arizona, Idaho, Montana, New Mexico, South Dakota, and Washington—final report: U.S. Dept. Energy, Rept. GJBX-126-79

1979b Aerial radiometric and magnetic reconnaissance survey of portions of New Mexico, Oklahoma, and Texas, Dalhart quadrangle—final report: U.S. Dept. Energy, Rept. GJBX-46-80

Tezak, Margaret A.

1978a Ute Dome Dakota (gas), in Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 543-545, 4 figs.

1978b Ute Dome Paradox (gas), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 546–547, 4 figs.

Thill, R. E.

see Roegiers and Thill, 1976

Thode, Edward F.

see Gunaji, Thode, and others, 1978

Thomaidis, N. D.

see Fassett, Thomaidis, and Matheny, 1978

Thomas, D. M., Jr.

see Beach and Thomas, 1978

Thomas, J. H.

1978 (Marshall, P. D., and Douglas, A.) Rayleighwave amplitudes from earthquakes in the range 0-150°: Royal Astron. Soc., Geophys. Jour., v. 53, no. 2, p. 191-200, 2 tables, 4 figs.

Thomas, R. W.

see Melancon and others, 1979

Thomas, W. M.

see Dollase and Thomas, 1978

Thompson, D. T.

1980 Geophysical experiments at Mariano Lake uranium orebody, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 185-194, 15 figs.; *abs. in* Grants

uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 20; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 695

Thompson, G.

see McGetchin, Burke, and others, 1979

Thompson, George A.

see Cape and others, 1980

Thompson, John B.

see Jaksha, Locke, and others, 1977, 1978

Thompson, K. F. M.

1980 The origin of natural gas, San Juan Basin, New Mexico (abs.): 26th Internat. Geol. Congr., Abs., v. 2, p. 798

Thompson, Robert S.

1980 (Van Devender, T. R., Martin, P. S., and Foppe, T.) Shasta ground sloth (*Nothrotheriops shastense* Hoffstetter) at Shelter Cave, New Mexico—environment, diet, and extinction: Quaternary Research, v. 14, no. 3, p. 360-376

Thompson, Sam, III

1976 Tectonic and igneous effects on petroleum accumulations in southwestern New Mexico, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 122-126, 1 fig.

1977a Subsurface geology of the KCM No. 1 Forest Federal well, Hidalgo County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1,

p. 77-78

1977b (compiler) Geology, petroleum source rocks, and thermal metamorphism in KCM No. 1 Forest Federal well, Hidalgo County, New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 152,

62 p., 13 tables, 19 figs.

1977c Subsurface geology and the petroleumexploration significance, *in* Geology, petroleum
source rocks, and thermal metamorphism in KCM
No. 1 Forest Federal well, Hidalgo County, New
Mexico, S. Thompson, III, compiler: New Mexico
Bureau Mines Mineral Resources, Circ. 152, p. 5-23,
1 table, 6 figs.

1978 The Fra Cristobal Range from Mitchell Point exit (Stop 58), *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ.

163, p. 93-96, 2 figs.

1980 Pedregosa Basin's main exploration target is Pennsylvanian dolostone: Oil and Gas Jour., v. 78,

no. 42, p. 202-215

1977 (LeMone, D. V., and Simpson, R. D.) Preliminary considerations of the Permian stratigraphic nomenclature of southwestern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 78

1978 (Tovar R., J. C.; and Conley, J. N.) Oil and gas exploration wells in the Pedregosa Basin: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 331-342, 4 tables, 3 figs.

1980 (Tovar R., J. C.; and Conley, J. N.) Oil and gas exploration wells in Pedregosa Basin (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 58; Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 3, p. 450; New Mexico Geology, v. 2, no. 4, p. 63

see Armstrong, A. K., Kottlowski, and others, 1980; Ewing, R. G., and Thompson, 1977; Greenwood and others, 1977; Jacka and Thompson, 1980; Kottlowski and Thompson, 1979, 1980; LeMone, Simpson, and Thompson, 1978; Oppel and others, 1977; and Simpson, R. D., and others, 1978a,b

Thompson, Tommy B.

1980 (Giles, D. L., and others) Igneous origin of the orbicular rocks of the Sandia Mountains, New Mexico—discussion and reply: Geol. Soc. America, Bull., v. 91, no. 4, pt. I, p. 245-247

Thorman, Charles H.

1977 Geologic map of the Coyote Peak and Brockman quadrangles, Hidalgo and Grant Counties, New Mexico (abs.): U.S. Geol. Survey, Misc. Field Studies Map MF-924, scale 1:24,000 [1978]

1978a (and Drewes, Harald) Cretaceous-early Tertiary history of the northern Pyramid Mountains, southwestern New Mexico: New Mexico Geol. Soc., Guidebook 29th field conf., southeastern Arizona, p. 215-218, 1 fig.

1978b (and Drewes, Harald) Geologic map of Gary and Lordsburg quadrangles, Hidalgo County, New Mexico: U.S. Geol. Survey, Misc. Inv. Ser., Map I-1151, scale 1:24,000

1979a (and Drewes, Harald) Geologic map of parts of the Grandmother Mountain East and Grandmother Mountain West quadrangles, Luna County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1088, scale 1:24,000

1979b (and Drewes, Harald) Geologic map of the Saltys quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1137,

scale 1:24,000

1980 (and Drewes, Harald) Geologic map of the Victorio Mountains, Luna County, southwestern New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1175, scale 1:24,000

see Drewes and Thorman, 1978, 1980a,b

Thornton, C. P.

see Naert and others, 1980

Thorsen, W. G.

1977 Wilson Deep field, Lea County, New Mexico, in The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 216-217, 1 table, 1 fig.

Threlkeld, Charles N.

see Leventhal and Threlkeld, 1978

Tidwell, William D.

1980 (and Ash, S. R.) Preliminary report on a flora in the Red Tanks Member of the Madera Formation, central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 306

1980 (Bunderson, Eileen, and Parker, L. R.) Petrified palm bases from the Upper Cretaceous Fruitland Formation, San Juan Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 306

see Ash and Tidwell, 1976

Tilton, James G.

1976 Gas from coal deposits, in Natural gas from unconventional geologic sources: Energy Research and Develop. Adm., Rept. FE-227-1, p. 206-229, 7 tables, 9 figs.

Timmer, Robert S.

1976 Geology and sedimentary copper deposits in the western part of the Jarosa and Seven Springs quadrangles, Rio Arriba and Sandoval Counties, New Mexico: M.S. thesis, Univ. New Mexico, 151 p. see Woodward and Timmer, 1979

Tinsley, Mary

see Schufle, Baca, and others, 1976

Tipton, Steven

see Stanley and Tipton, 1977a,b

Titman, P. S.

see McCaslin and Titman, 1977

Titus, Frank B.

1980 Ground water in the Sandia and northern Manzano Mountains, New Mexico: New Mexico Bureau Mines Mineral Resources, Hydro. Rept. 5, 66 p., 3 tables, 22 figs.

Todd, V. R.

see Armstrong, A. K., Silberman, and others, 1978; and Hoggatt and others, 1977

Tooker, Edwin W.

1978 Proposed plate tectonic setting for metal provinces in the conterminous United States (abs.): Internat. Assoc. Genesis Ore Deposits, 5th symp., Program and Abs., p. 191

Toomey, Donald F.

1980 History of a Late Carboniferous phylloid algal bank complex in northeastern New Mexico: Lethaia, v. 13, no. 3, p. 249-267

1977a (and Cys, J. M.) Rock/biotic relationships of the Permian Tansill-Capitan facies exposed on the north side of the entrance to Dark Canyon, Guadalupe Mountains, southeastern New Mexico: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 1, p. 133-150

1977b (and Cys, J. M.) Spirorbid/algal stromatolites, a probable marginal marine occurrence from the lower Permian of New Mexico, U.S.A.: Neues Jahrb. Geologie u. Paläontologie, Monatsh., no. 6, p. 331-342

1979 (and Cys, J. M.) Community succession in small bioherms of algae and sponges in the Lower Permian of New Mexico: Lethaia, v. 12, no. 1, p. 65-74

1977 (and Wilson, J. L.) Stop C-1, Yucca Mound, in Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 167-168, 1 fig.

1977a (Wilson, J. L., and Rezak, Richard) Evolution of Yucca Mound Complex, Late Pennsylvanian phylloid-algal buildup, Sacramento Mountains, New Mexico: Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 12, p. 2115-2133, 15 figs.

1977b (Wilson, J. L., and Rezak, Richard) Growth history of a Late Pennsylvanian phylloid algal organic buildup, northern Sacramento Mountains, New Mexico, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 9-26, 10 figs.

Toppozada, Tousson R.

1976 (and Sanford, A. R.) Crustal structure in central New Mexico interpreted from the Gasbuggy ex-

plosion: Seismol. Soc. America, Bull., v. 66, no. 3, p. 877-886, 3 tables, 6 figs.

see Sanford, Toppozada, and others, 1976

Torres, B. W.

see Balestri and others, 1979

Tourtelot, E. B.

1976 (and Vine, J. D.) Copper deposits in sedimentary and volcanogenic rocks: U.S. Geol. Survey, Prof. Paper 907-C, p. C1-C34

Tovar R., Jorge C.

see Thompson, Sam, III, Tovar R., and Conley, 1978, 1980

Towle, James N.

1978 Current channeling and geomagnetic induction in the Rio Grande rift, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 96

1979 Interpretation of local differences in the regional geomagnetic-variation field across the central Rio Grande rift (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 242–243

1980a Polarization of bay-type geomagnetic disturbances in the Rio Grande rift, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-377, 69 p.

1980b New evidence for magmatic intrusion beneath the Rio Grande rift, New Mexico: Geol. Soc. America, Bull., v. 91, no. 10, pt. I, p. 626-630, 4 figs.

Townsend, K. K.

1979 Ground and surface water in New Mexico—are they protected against uranium mining and milling, in U.S. energy policy—errors of the past, proposals for the future, W. J. Mead, editor: Cambridge, Ballinger Pub. Co., p. 239–260; Sel. Water Resources Abs., v. 12, no. 16, p. 72; Natural Resources Jour., 1978, v. 18, no. 4, p. 941–962

Towse, Donald F.

1980 Evolution and stress-history of low-permeability Upper Cretaceous gas reservoirs, Rocky Mountains (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 794

Toy, T. J.

1979 (and Munson, B. E.) Climatic appraisal maps of the rehabilitation potential of strippable coal lands in the Four Corners area, Arizona, Colorado, New Mexico, and Utah: U.S. Geol. Survey, Misc. Field Studies Map MF-1098, 2 sheets, scale 1:1,000,000

Trainer, Frank W.

1978 Geohydrologic data from the Jemez Mountains and vicinity, north-central New Mexico: Natl. Tech. Inf. Serv., Rept. PB-284-221, 152 p.; U.S. Geol. Survey, Water-resources Inv. 77-131, 152 p.; abs. in New Mexico Geology, v. 1, no. 1, p. 16

1979 (and Lyford, F. P.) Geothermal hydrology in the Rio Grande rift, north-central New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 299–306, 3 tables, 3 figs.

Trauger, Frederick D.

see Lavery and Trauger, 1977

Treiber, J. A.

see Dimitrijevich and others, 1976

Treimain, Allan H.

1977 Precambrian geology of the Ojo Caliente quadrangle, Rio Arriba and Taos Counties, New Mexico: M.S. thesis, Stanford Univ., 93 p.

1978 A hypabyssal granitic intrusion of Precam-

brian age, Ojo Caliente quadrangle, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 5, p. 240

Trevena, Arthur S.

1977 Determining fluvial channel patterns from stratification style—a Triassic example from the Colorado Plateau: Univ. Wyoming, Contrib. in Geology, v. 16, no. 1, p. 45-53

1978a (and Nash, W. P.) Provenance of the Chuska Sandstone—feldspar chemistry, paleocurrents, and petrography (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 3, p. 151

1978b (and Nash, W. P.) Provenance and correlation of some mid-Tertiary (?) eolian sandstone units, New Mexico and Arizona (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 5, p. 240

Tschudy, Robert H.

1976 Palynology of Crevasse Canyon and Menefee Formations of San Juan Basin, New Mexico: New Mexico Bureau Mines Mineral Resources, Circ. 154, p. 48-55, 5 figs.

1980 Normapolles pollen from *Aquilapollenites* province, western United States: New Mexico Bureau Mines Mineral Resources, Circ. 170, 14 p., 1 table, 3 figs.

Tsentas, Costas

1980 (and Lucas, S. G.) Position of the Paleocene-Eocene boundary in the south-central San Juan Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 538

Tully, Tony

see Jacka, Barone, and others, 1980

Turekian, K. K.

see Nozaki, DeMaster, Benninger, and others, 1977; and Nozaki, DeMaster, Lewis, and Turekian, 1978

Turmelle, John M.

see Owen, Walters, Depetro, and Turmelle, 1978 Turner, Dennis L.

1979 Geology and economic geology of the Juniper Hills-Sycamore Creek area, Reading Mountain quadrangle, Grant County, New Mexico: M.S. thesis, Colorado School Mines

1976 (and Forbes, R. B.) K-Ar studies in two deep basement drill holes—a new geologic estimate of argon blocking temperature of biotite (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 353 see Brookins, Forbes, and others, 1977

Turner, William M.

1978 (and Kues, Georgiana) Hot dry rock reviewed: Geotimes, v. 23, no. 7, p. 19

Turner-Peterson, C. E.

1980 Tabular uranium ore in Poison Canyon area, Morrison Formation, San Juan Basin, and application of lacustrine-humate model (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 795

1980 (and Gundersen, L. C.) Sedimentology of Westwater Canyon Member, Morrison Formation, southern San Juan Basin (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 795-796

1980 (and others) Fluvial-lacustrine sequences in the Upper Jurassic Morrison Formation and the relationship of facies to tabular uranium ore deposits in the Poison Canyon area, Grants mineral belt, New Mexico, *in* Uranium in sedimentary rocks, C. E. Turner-Peterson, editor: Soc. Econ. Paleontologists and Mineralogists, Rocky Mtn. Sec., p. 177-211

Turney, W. F., and Associates

1976 Geology and hydrology, in USBR-NTUA water study, P.L. 92-199: Turney and Assoc., consult. rept. to Navajo Tribal Authority and U.S. Bureau Reclamation, pt. 10, p. 104-114

Tweto, Ogden

1979 The Rio Grande rift system in Colorado, in Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 33-56, 4 figs.

Tyler, Noel

see Ethridge, Ortiz, Sunada, and Tyler, 1980

Tyrrell, Willis W., Jr.

1978 (Lokke, D. H., Sanderson, G. A., and Verville, G. J.) Late Guadalupian correlations, Permian reef complex, west Texas and New Mexico (abs.), in Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 84–85, 1 fig.

U.S. Bureau of Land Management

1976 State of New Mexico, nominated areas for coal leasing: U.S. Bureau Land Management, New Mexico Office, scale 1:500,000

U.S. Bureau of Mines

1976 Mineral production in New Mexico [1974 and 1975]: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1975–76, p. 47

1977 Mineral production in New Mexico [1975 and 1976]: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1976–77, p. 87

1979 Mineral production in New Mexico [1976 and 1977]: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1977–78, p. 61

1980 Nonfuel mineral production in New Mexico [1979]: New Mexico Geology, v. 2, no. 2, p. 32, 1 table

U.S. Bureau of Reclamation

1976a New Mexico water resources assessment for planning purposes: U.S. Bureau Reclamation, New Mexico Interstate Stream Comm., and New Mexico State Engineer, 218 p., 31 figs.

1976b Ground water, *in* Final environmental statement—Proposed Western Gasification Project and expansion of Navajo mine by Utah International Inc., San Juan County, New Mexico: U.S. Bureau Reclamation, INT FES 76-2, v. 1, p. 2.32, 2.37-2.39

1976c Final environmental statement—Proposed modifications to the Four Corners Power Plant and Navajo mine (San Juan County), New Mexico: U.S. Bureau Reclamation, INT FES 76-36, v. 1, p. 2.56-2.57

1976d Ground water, *in* Draft environmental statement, proposed expansion of the San Juan Power Plant, San Juan County, New Mexico: U.S. Bureau Reclamation, p. 2–53

1976e Resource and potential reclamation evaluation—Bisti West study site—Bisti coal field: U.S. Dept. Interior, Bureau Land Management, EMRIA Rept. 5, 108 p.

1977 Technical memorandum, state regional futures and problem lists (activity 2, phase II) 1975 national assessment—Rio Grande region—1975 water

assessment: U.S. Bureau Reclamation, Interior Task Force, 267 p., 9 figs.

U.S. Congress, Senate Subcommittee on Energy Resources and Materials Production

1980 Coal leases on BLM lands in New Mexico: U.S. Govt. Printing Office, Rept. 96–66, 211 p.

U.S. Department of Agriculture

1976 Final environments statement, geothermal leasing, Santa Fe National Forest: U.S. Dept. Agriculture, 165 p., 3 figs.

U.S. Department of Energy

1979 Use of brackish ground water resources for regional energy center development, Tularosa Basin, New Mexico (abs.): New Mexico Geology, v. 1, no. 2, p. 31

U.S. Department of the Interior

1977 Hydrology and water supply, *in* Resource and potential reclamation evaluation, Bisti West study site, Bisti coal field: U.S. Dept. Interior, EMRIA Rept. 5-1976, p. 69-80, appendix F, 17 p.

U.S. Geological Survey

1976a Land use and land cover and associated maps for Carlsbad, New Mexico, Texas: U.S. Geol. Survey, Open-file Rept. 76-26, 5 sheets, scale 1:250.000

1976b Aeromagnetic map of an area north of Abiquiu, New Mexico: U.S. Geol. Survey, Open-file Rept. 76–503, scale 1:62,500

1976c Aeromagnetic map of Wheeler Peak and vicinity, New Mexico: U.S. Geol. Survey, Open-file Rept. 76–504, scale 1:62,500

1976d Aeromagnetic map of Carson and vicinity, New Mexico: U.S. Geol. Survey, Open-file Rept. 76-686, scale 1:62,500

1976e Residual magnetic intensity map of central New Mexico: U.S. Geol. Survey, Open-file Rept. 76-806, scale 1:250,000

1976f Water resources data for New Mexico—pt. 1, surface water records, report year 1974: U.S. Geol. Survey, ann. water-data rept.

1976g Water resources data for New Mexico—pt. 2, water quality records, report year 1974: U.S. Geol. Survey, ann. water-data rept., p. 258–289

1976h Geologic and water-supply reports and maps, New Mexico, report year 1975: U.S. Govt. Printing Office, p. 22–29, 36–37

1976i Water resources data for New Mexico, water year 1975: U.S. Geol. Survey, Water-data Rept. NM-75-1, p. 530-598

1976j Hydrologic unit map 1974, State of New Mexico: U.S. Geol. Survey, map, scale 1:500,000

1977a Ground water levels in the United States—pt. 6, southwestern United States, report year 1971-74: U.S. Geol. Survey, Water-supply Paper 2162, p. 66-86

1977b Water resources data for New Mexico—water year 1975: Natl. Tech. Inf. Serv., Water-resources Data Rept. PB-263 548/AS, 616 p.

1977c Techniques and data requirements for estimating the water availability on the Mescalero Apache Indian Reservation, Otero County, New Mexico: U.S. Geol. Survey, Open-file Rept. 77-757, 37 p., 2 sheets

1977d A proposal for studies of the water resources of the Mescalero Apache Indian Reservation, Otero

County, New Mexico: U.S. Geol. Survey, Open-file Rept. 77-758, 17 p., 1 fig., 3 sheets

1977e Water resources data for New Mexico—water year 1976: Natl. Tech. Inf. Serv. PB-277 922, 666 p.

1978 Progress report on Black Mesa monitoring program, 1977: U.S. Geol. Survey, Open-file Rept. 78–459, 38 p.

1979a Land use and land cover and associated maps for Gallup, New Mexico, Arizona, lat. 35° to 36°, long. 108° to 110°: U.S. Geol. Survey, Open-file Rept. 78–277, 5 sheets, scale 1:250,000

1979b Drill-hole location maps, Carlsbad mining district, Eddy and Lea Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79–251, 4 sheets, scale 1:31,680

1979c Land use and land cover and associated maps for Shiprock, New Mexico, Arizona, Colorado, Utah, lat. 36° to 37°, long. 108° to 110°: U.S. Geol. Survey, Open-file Rept. 79–260, 5 sheets, scale 1:250,000

1979d Aeromagnetic map of the north and west parts of the Silver City 1° by 2° quadrangle, New Mexico and Arizona: U.S. Geol. Survey, Open-file Rept. 79–1452, 5 sheets, scale 1:62,500

1979e Land use and land cover and associated maps for Albuquerque, NW, New Mexico: U.S. Geol. Survey, Open-file Rept. 79–1549, 2 sheets, scale 1:100,000 [1980]

1979f Preliminary map showing distribution of potash resources, Carlsbad mining district, Eddy and Lea Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79–1579, scale 1:62,500

1979g Aeromagnetic map of the Malpais area, New Mexico: U.S. Geol. Survey, Open-file Rept. 79–1644, scale 1:250,000

1979h Water resources data for New Mexico—water year 1978: Natl. Tech. Inf. Serv., Water-resources Data Rept. PB-80 160 864, 688 p.

1979i Early Tertiary flora found in New Mexico: U.S. Geol. Survey, Prof. Paper 1150, p. 217

1980a Land use and land cover, 1974, Carlsbad, New Mexico, Texas: U.S. Geol. Survey, Land Use and Land Cover Map L-176, scale 1:250,000

1980b Land use and land cover, 1976, Gallup, New Mexico, Arizona: U.S. Geol. Survey, Land Use and Land Cover Map L-184, scale 1:250,000

1980c Land use and land cover, 1971-76, Shiprock, New Mexico, Arizona, Colorado, Utah: U.S. Geol. Survey, Land Use and Land Cover Map L-195, scale 1:250,000

1980d Land use and land cover and associated maps for Hobbs, Texas, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-259, 2 sheets, scale 1:250,000

1980e Land use and land cover and associated maps for Clovis, Texas, New Mexico: U.S. Geol. Survey, Open-file Rept. 80–260, 2 sheets, scale 1:250,000

1980f Land use and land cover and associated maps for Brownfield, Texas, New Mexico: U.S. Geol. Survey, Open-file Rept. 80–261, 2 sheets, scale 1:250,000

1980g Land use and land cover and associated maps for Tucumcari, New Mexico, Texas: U.S. Geol. Survey, Open-file Rept. 80-264, 2 sheets, scale 1:250,000

1980h Aeromagnetic map of northeast Arizona and northwest New Mexico: U.S. Geol. Survey, Open-file Rept. 80–614, 4 sheets, scale 1:250,000

1980i Aeromagnetic map of the Pecos area, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-671, 4 sheets, scale 1:62,500

1980j Aeromagnetic map of the Buck Robinson Peak area, Arizona and New Mexico: U.S. Geol. Survey, Open-file Rept. 80-995, scale 1:62,500

1980k Aeromagnetic map of the Little Dog-Pup Canyon area, New Mexico: U.S. Geol. Survey, Openfile Rept. 80–997, scale 1:62,500

1980*I* Aeromagnetic map of the southern part of the Silver City 1° by 2° quadrangle, Arizona and New Mexico: U.S. Geol. Survey, Open-file Rept. 80-1128, 4 sheets, scale 1:62,500

1980m Aeromagnetic and airborne radioactivity maps and profile in New Mexico published or openfiled by the U.S. Geological Survey: New Mexico Geology, v. 2, no. 4, p. 55-58, 2 figs.

1980 (U.S. Bureau of Mines, and New Mexico Bureau of Mines and Mineral Resources) Mineral resources of the Pecos Wilderness and adjacent areas, Santa Fe, San Miguel, Mora, Rio Arriba, and Taos Counties: U.S. Geol. Survey, Open-file Rept. 80–382, 117 p., 6 sheets, scale 1:48,000

see Sandia Laboratories, 1979a-d

U.S. Soil Conservation Service

1976 The small watershed program in New Mexico: U.S. Dept. Agriculture, Soil Conserv. Serv., ann. rept.

Uphoff, Thomas L.

1977 Subsurface structural correlations—Rio Grande valley, Doña Ana County, New Mexico, and El Paso County, Texas (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 79

1978 Subsurface stratigraphy and structure of the Mesilla and Hueco Bolsons, El Paso region, Texas and New Mexico: M.S. thesis, Univ. Texas (El Paso)

1979 Late Cretaceous-Paleogene tectonic activity of the El Paso region, Texas and New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 6, p. 304

Van Alstine, Ralph E.

1976 Continental rifts and lineaments associated with major fluorspar districts: Econ. Geology, v. 71, no. 6, p. 977–987, 2 figs.

Van Cleave, P. F.

1976 Radon in Carlsbad Caverns and caves of the surrounding area, *in* National cave management symposium: Albuquerque, Speleobooks, Proc., p. 120

Van de Pol, R. M.

1977 (Wierenga, P. J., and Nielsen, D. R.) Solute movement in a field soil: Soil Sci. Soc. America, Jour., v. 41, no. 1, p. 10-13, 5 figs.

Van Devender, Thomas R.

1977 (and Everitt, B. L.) The latest Pleistocene and Recent vegetation of the Bishop's Cap, south-central New Mexico: Southwestern Naturalist, v. 22, no. 3, p. 337-352

1977 (and Worthington, R. D.) The Herpetofauna of Howell's Ridge Cave and the paleoecology of the northwestern Chihuahuan Desert, *in* Symposium on the biological resources of the Chihuahuan Desert

region, United States and Mexico: U.S. Natl. Park Serv., Trans. Proc. Ser. 3, p. 85-106

see Betancourt and Van Devender, 1980; Moodie and Van Devender, 1979; and Thompson, R. S., and others, 1980

Vaninetti, G. E.

1979 Coal exploration concepts and practices in the western United States, *in* Coal exploration, G. D. Argall Jr., editor: 2nd Internat. Coal Explor. Symp., Proc., v. 2, p. 132-194

Van Sant, Joel N.

1977 New Mexico, in Mining and mineral operations in the Rocky Mountain states—a visitor guide: U.S. Govt. Printing Office, p. 58-65

Van Trump, G., Jr.

see Mendes and Van Trump, 1979

Van Wagoner, John C.

1977a Carbonate and siliciclastic facies of the Gobbler Formation, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 57-70, 1 table, 4 figs.

1977b Guide locality B-1—west end of Horse Ridge, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 139-156, 7 figs.

1978 Pennsylvanian carbonate and siliciclastic depositional patterns and sequences across Sacramento shelf, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 569

Varnado, S. G.

see Newsom and others, 1978

Varnell, R. J.

1976 Geology of the Hat Top Mountain quadrangle, Grant and Luna Counties, New Mexico: M.S. thesis, Univ. Texas (El Paso)

1976 (Nials, F. L., and Corbitt, L. L.) Laramide thrust faulting in the Klondike Hills, northern Cedar Mountains, Luna County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 642 see Corbitt and others, 1977, 1978

Varnes, Katherine L.

1979 Index to localities and sources, in Paleotectonic investigations of the Mississippian System in the United States—pt. 2, interpretive summary and special features of the Mississippian System, L. C. Craig and C. W. Connor, compilers: U.S. Geol. Survey, Prof. Paper 1010-W, p. 461-546

see Coury and others, 1978; Craig, L. C., and Varnes, 1979; Dolton, Coury, and others, 1980; and Mapel and others, 1979

Vassiliou, Andreas H.

1980a The form of occurrence of uranium in deposits associated with organic matter: Econ. Geology, v. 75, no. 4, p. 609–617, 1 table, 8 figs.

1980b The form of occurrence of uranium in urano-organic deposits (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 2, p. 88

Vaughan, F. R.

1978 The origin and diagenesis of the Arroyo Peñasco collapse breccia: M.S. thesis, State Univ. New York (Stony Brook)

1976 (and Meyers, W. J.) Diagenesis and origin of the Arroyo Peñasco collapse breccia, north-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 1152-1153

Vazzana, Michael E.

1980 Stratigraphy, sedimentary petrology, and basin evolution of the Abiquiu Formation, north-central New Mexico: M.S. thesis, Univ. New Mexico, 115 p.

1980 (and Ingersoll, R. V.) Stratigraphy, sedimentary petrology and basin evolution of the Abiquiu Formation (Oligo-Miocene), north-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 307

Veal, Harry K.

1977 (editor) Exploration frontiers of the central and southern Rockies: Rocky Mtn. Assoc. Geol., Guidebook 1977 field conf., 498 p.

Veldhuluis, J. H.

1980 (and Keller, G. R.) A geophysical and geologic analysis of Cenozoic basins in Trans-Pecos Texas and southern New Mexico (abs.): Am Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 58

1977 Geohydrologic report, Lamphere-Rio Villa Subdivision, Agua Fria Road, Santa Fe County, New Mexico: consult. rept. to James Lamphere, 11 p.

Verville, George J.

Veneklasen, G. O.

see Tyrell and others, 1978

Vidale, R. J.

see Balagna, Beddoe, and others, 1978

Vine, James D.

1976 Breccia pipes and burial metamorphism in Permian evaporites of the Delaware Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 6, p. 1154

see Tourtelot and Vine, 1976

Vizcaino, H. P.

1977 (and O'Neill, A. J.) Preliminary study of the uranium potential of Tertiary rocks in the central San Juan Basin, New Mexico: U.S. Energy Research and Develop. Admin., Rept. GJBX-78-77, 28 p.

Vogel, J. E.

see Kauffman and others, 1980

Von Bargen, David J.

1979 The silver-antimony-mercury system and the mineralogy of the Black Hawk district, New Mexico: Ph.D. thesis, Purdue Univ., 260 p.; Dissert. Abs. Internat., 1980, v. 41, no. 1, p. 104-B

von Seggern, David

1977 Amplitude-distance relation for 20-second Rayleigh waves: Seismol. Soc. America, Bull., v. 67, no. 2, p. 405-411, 3 tables

Wachter, Bruce G.

1980 (and Rutenbeck, Todd) Recognition and monitoring of rockfall hazards at selected National Park Service sites in Arizona, New Mexico, and Colorado (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 6, p. 307

Wacker, Herbert J.

see Roberts and others, 1976

Wadell, James S.

see Siemers, C. T., and Wadell, 1977

Wahl, David E., Jr.

1980 Mid-Tertiary volcanic geology in parts of Greenlee County, Arizona, Grant and Hidalgo Coun-

ties, New Mexico: Ph.D. thesis, Arizona State Univ., 270 p.; Dissert. Abs. Internat., v. 41, no. 4, p. 1288-B

Wahl, R. R.

see Healey and others, 1978

Walker, J. R.

1977 The geomorphic evolution of the southern High Plains: M.S. thesis, Baylor Univ.; Baylor Geol. Studies, 1978, Bull. 35, 29 p.

Wallace, Terry C.

see Sanford, Mott, and others, 1977; Sanford, Toppozada, and others, 1976; and Shuleski and others, 1977

Wallis, J. R.

see Landwehr and others, 1978

Walsh, E. N.

1979 Development of the Chacon Dakota Associated pool: Soc. Petroleum Engineers, 54th Ann. Fall Tech. Conf., p. 1-4

Walters, Kenneth A.

1979 The geology of the Baldy Mountain area, Colfax County, New Mexico: M.S. thesis, Northern Arizona Univ., 87 p.

Walters, Lester J., Jr.

see Owen, Walters, Kostura, and Grant, 1976; and Owen, Walters, Depetro, and Turmelle, 1978

Walton, Anthony W.

1980 (Salter, T. L., and Zetterlund, Dale) Uranium potential of southwestern New Mexico (southern Hidalgo County), including observations on crystallization history of lavas and ash tuffs and the release of uranium from them: U.S. Dept. Energy, Rept. GJBX-169-80, 114 p.

Walvekar, Arun

see Gunaji, Thode, and others, 1978

Wangen, L. E.

1978 (and Wienke, C. L.) A review of trace element studies related to coal combustion in the Four Corners area of New Mexico (abs.): Sel. Water Resources Abs., v. 11, no. 8, p. 28

see Dressen and others, 1978

Wannamaker, Philip E.

1980 The relation of regional resistivity structure in S.W. Utah to the tectonics of the Great Basin and Colorado Plateau (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 941

Ward, Roger M.

1980 Determination of three-dimensional velocity anomalies within the upper crust in the vicinity of Socorro, New Mexico, using first P-arrival times from local earthquakes: Ph.D. thesis, New Mexico Inst. Mining and Tech., 136 p.

see Rinehart, E. J., Sanford, and Ward, 1979; Sanford, Mott, and others, 1977; Sanford, Toppozada, and others, 1976; and Shuleski and others, 1977

Ward, Ronald W.

1979 Seismologists seeking heat: Geotimes, v. 24, no. 8, p. 21-24

1979 (and Nation, J. B.) Reduction of 3-D reflection data acquired during COCORP surveys (abs.): Soc. Exploration Geophys., 49th Ann. Mtg., p. 84

1977 (and Sengupta, M. K.) Three-dimensional seismic reflection survey near Socorro, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 58, no. 6, p. 436

see Sengupta and Ward, 1977

Warner, Glenn H.

see Foster, R. W., Gutjahr, and Warner, 1978

Warren, A. Helene

1979 (and Weber, R. H.) Indian and Spanish mining in the Galisteo and Hagan Basins, *in* Archaeology and history of Santa Fe country, R. V. Ingersoll, editor: New Mexico Geol. Soc., Spec. Pub. 8, p. 6–11, 3 figs.

Warren, J. L.

1980 Shallow land burial—experience and development at Los Alamos, *in* Underground disposal of radioactive wastes: Internat. Atomic Energy Agency, Proc. Ser. STI/PUB/528, p. 221–240

Warren, Richard G.

1978 Characterization of the lower crust-upper mantle of the Engle Basin, Rio Grande rift, from a petrochemical and field geologic study of basalts and their inclusions: M.S. thesis, Univ. New Mexico, 156 p.

1979 Geochemistry of lithic and single-crystal inclusions in basalt and a characterization of the upper mantle-lower crust in the Engle Basin, Rio Grande rift, New Mexico, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 393–415, 5 tables, 16 figs.

1978 (Kudo, A. M., and Keil, Klaus) Geochemistry of basalts and their inclusions and a characterization of the upper mantle-lower crust in the Engle Basin, Rio Grande rift, New Mexico, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 99-100

1978 (and Nunes, H. P.) Uranium hydrogeochemical and stream sediment reconnaissance data release for the New Mexico portions of the Hobbs and Brownfield NTMS quadrangles, New Mexico/Texas: U.S. Dept. Energy, Rept. GJBX-103-78, 612 p., 3 figs., 6 pls.

see Brookins, Warren, and Kudo, 1980

Warshaw, Charlotte M.

1980 (and Smith, R. L.) Ferromagnesian silicates in the Bandelier Tuff (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 545

Wasilewski, Peter J.

1980 (and Padovani, E. R.) Magnetization in the lower crust (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 17, p. 222

Waterbury, G. R.

see Aamodt, Bunker, and others, 1979; and Aamodt, Waterbury, and others, 1979

Water Resources Associates, Inc.

1977a Geohydrology of the Angel Fire area, Colfax County, New Mexico: Water Resources Assoc., Inc., consult. rept. to Baca Grande Angel Fire Corp., 26 p.

1977b Hydrology Jemez Mountains, New Mexico: Water Resources Assoc., Inc., consult. rept. to Union Oil Co., 27 p., 3 appendices

Water Resources Engineers, Inc.

1976 Water quality analysis, upper Rio Grande (abs.): Sel. Water Resources Abs., v. 9, no. 22, p. 54

Watts, Kenneth C.

1979 (and Alminas, H. V.) Geochemistry, in Background information to accompany folio of geologic, mineral resource, geochemical, aeromagnetic, and gravity maps of the Hillsboro and San Lorenzo quadrangles, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Circ. 808, 26 p.

1978 (Alminas, H. V., and Kraxberger, V. E.) Map showing areas of detrital fluorite and cassiterite and the localities of rock samples, Hillsboro and San Lorenzo quadrangles, exclusive of the Black Range Primitive Area, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-H. scale 1:48.000

1978a (Alminas, H. V., Nishi, J. M., and Crim, W. C.) Map showing anomalous tungsten and gold distribution in stream sediment concentrates, Hillsboro and San Lorenzo quadrangles, exclusive of the Black Range Primitive Area, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-I, scale 1:48,000

1978b (Alminas, H. V., Nishi, J. M., and Crim, W. C.) Map showing anomalous lead distribution in stream sediment concentrates, Hillsboro and San Lorenzo quadrangles, exclusive of the Black Range Primitive Area, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-J. scale 1:48.000

1978c (Alminas, H. V., Nishi, J. M., and Crim, W. C.) Map showing anomalous bismuth distribution in stream sediment concentrates, Hillsboro and San Lorenzo quadrangles, exclusive of the Black Range Primitive Area, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-K, scale 1:48,000

1980 (and Hassemer, J. R.) Distribution and abundance of fluorite in stream sediment concentrates, Silver City 1° by 2° quadrangle, Arizona and New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1183-C, scale 1:24,000

1979 (Hassemer, J. R., Forn, C. L., and Siems, D. F.) Discussion, statistical analysis, and listing of the spectrographic analyses of alluvial heavy mineral concentrates, Mogollon mining district, Catron County, New Mexico: U.S. Geol. Survey, Open-file Rept. 79–1682, 64 p.

1978 (Hassemer, J. R., Nishi, J. M., and Siems, D. F.) Anomaly patterns for selected metals in heavy mineral concentrates and oxalic acid residues, Dwyer quadrangle, Grant and Luna Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1027, scale 1:31,680

1978 (Hassemer, J. R., Siems, D. F., and Nishi, J. M.) A statistical summary and listing of the spectrographic analyses of heavy mineral concentrates and conventional sieved stream-sediment samples, Silver City area, New Mexico: U.S. Geol. Survey, Open-file Rept. 78–801, 247 p.

see Alminas and Watts, 1978; and Alminas, Watts, and others, 1978a-d

Wauer, R. H.

1977 (and Riskind, D. H., editors) Symposium on the biological resources of the Chihuahuan Desert region, United States and Mexico: U.S. Natl. Park Serv., Trans. Proc. Ser. 3, 658 p.

Wawersik, W. R.

1980 (and Hannum, D. W.) Mechanical behavior of New Mexico rock salt in triaxial compression up to 200 degrees C: Jour. Geophys. Research, v. 85, no. B2, p. 891-900

see Costin and Wawersik, 1980

Weare, J. H.

see Harvie and Weare, 1980

Weart, Wendell D.

1980 (and Powers, D. W.) Geologic issues for the Waste Isolation Pilot Plant (WIPP) (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 546 see Powers, D. W., and Weart, 1979

Weaver, T. A.

1978 (Bunker, M. E., and Hansel, J. M.) Hydrogeochemical and stream sediment reconnaissance of the National Uranium Resource Evaluation Program—January-March 1978—the Rocky Mountain States of New Mexico, Colorado, Wyoming, and Montana, and the State of Alaska: Los Alamos Sci. Lab., Rept. 7544, 28 p.

see Nunes and Weaver, 1978

Weber, Darrell J.

1978 (and Lawler, G. C.) Lipid components of the coprolites, *in* Geology, paleontology, and paleoecology of a Late Triassic lake, western New Mexico: Brigham Young Univ., Geology Studies, p. 75–87, 9 tables, 6 figs.

see Ash, Dean, and others, 1978

Weber, J.

see Keller, L. F., and others, 1977

Weber, Robert H.

1979a Valley of Fires—New Mexico State Park series: New Mexico Geology, v. 1, no. 2, p. 27-28, 1 fig.

1979b Turquoise in New Mexico: New Mexico Geology, v. 1, no. 3, p. 39-40, 1 fig.

1980a City of Rocks—New Mexico State Park series: New Mexico Geology, v. 2, no. 1, p. 10-11

1980b Rock Hound—New Mexico State Park series: New Mexico Geology, v. 2, no. 4, p. 59-60, 3 figs.

1980c Geology of the Ake Site, *in* The Ake Site—collection and excavation of LA13423, Catron County, New Mexico, P. H. Beckett, editor: New Mexico State Univ., CRMD Rept. 357, p. 221–238

see Austin, G. S., and Weber, 1976; and Warren, A. H., and Weber, 1979

Webring, Michael W.

see Eaton, Peterson, and Webring, 1977; and Eaton, Peterson, Webring, and Ratte, 1976

Webster, G. D.

1978 Late Paleozoic echinoderm biostratigraphy of the southwestern United States (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 3, p. 152

1979 Early and middle Mississippian crinoid faunas of western North America (abs.): 9th Internat. Congr. Carboniferous Stratigraphy and Geology, Abs., p. 228-229

Wechsler, D. J.

1980 Hypocenter location capability of the LASL seismic array in northern New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 61, no. 46, p. 1029

Wedow, Helmuth, Jr.

see Ericksen and Wedow, 1976

Weeks, J. B.

1978 Plan of study for the High Plains Regional Aquifer-System Analysis in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming: U.S. Geol. Survey,

Water-resources Inv. 78-70, 32 p.; Natl. Tech. Inf. Serv., Rept. PB-284 668, 32 p.

see Gutentag and Weeks, 1980a, b

Weiber, Paul R.

1978 (and Sikri, A. P.) The development of in-situ processes for energy and fuels from coals: Mining Engineering, v. 30, no. 5, p. 557–565, 6 tables, 10 figs.

Weide, David L.

1979 (Mytton, J. W., and Scott, G. R.) Geologic map of the Fire Rock Well quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1124, scale 1:24,000

1980 (Mytton, J. W., and Scott, G. R.) Geologic map of the Pueblo Alto Trading Post quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1200, scale 1:24,000

1979 (O'Sullivan, R. B., and Heller, J. S.) Preliminary geologic map of the Fruitland quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1089, scale 1:24,000

1979a (Schneider, G. B., Mytton, J. W., and Scott, G. R.) Geologic map of the Pueblo Bonito quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1119, scale 1:24,000

1979b (Schneider, G. B., Mytton, J. W., and Scott, G. R.) Geologic map of the Sargent Ranch quadrangle, San Juan County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1120, scale 1:24,000

1980 (Scott, G. R., and Mytton, J. W.) Geologic map of the Pueblo Pintado quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1219, scale 1:24,000

see O'Sullivan, Scott, and Weide, 1979; Schneider, Weide, and others, 1979; and Schneider, Weide, and Scott, 1979

Weidler, Mark E.

1978a Marcelina Dakota (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 406–407, 2 figs.

1978b Miguel Creek Gallup (oil), *in* Oil and gas fields of the Four Corners area, J. E. Fassett and others, editors: Four Corners Geol. Soc., p. 423-424, 2 figs.

Weidman, Charles

see Reiter, Simmons, and others, 1976; and Reiter, Weidman, and others, 1976

Weimer, Becky S.

1979 (Amesbury, J. E., and Nichols, S. L.) Age determinations from other publications—list 3: Isochron/West, no. 25, p. 9-30

Weinmeister, Marcus P.

1978 Origin of upper Bell Canyon reservoir sandstones (Guadalupian), El Mar and Paduca fields, southeast New Mexico and west Texas: M.S. thesis, Texas A and M Univ.

Weise, James R.

1980 (and LeMone, D. V.) Carbonate stratigraphy of the U-Bar Formation (Aptian-Albian) of the southeastern Big Hatchet Mountains, Hidalgo County, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann. Mtg., Program, p. 60-61

Weisner, R. C.

1980 (Lemons, J. F., and Coppa, L. V.) Valuation

of potash occurrences within the nuclear Waste Isolation Pilot Plant site in southeastern New Mexico: U.S. Bureau Mines, Inf. Circ. 8814, 94 p.

Welder, G. E.

1977a Map showing the altitude and configuration of the water level in the shallow aquifer, January 1975, Roswell Basin, Chaves and Eddy Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 77-505, 2 sheets, scale 1:125,000

1977b Map showing the altitude and configuration of the water level in the shallow aquifer January 1964, Roswell Basin, Chaves and Eddy Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 77–506, 2 sheets, scale 1:125,000

Wells, L. E.

see Sanyal and others, 1979

Wells, Stephen G.

1978 (and White, W. D.) Forest-fire devegetation and hillslope erosion in small mountainous watersheds (abs): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 513-514

see White, W. D., and Wells, 1979

Wenrich-Verbeek, Karen J.

1977 The effectiveness of stream-sediment sampling along the Rio Ojo Caliente, New Mexico, *abs. in* Symposium on hydrogeochemical and stream-sediment reconnaissance for uranium in the United States: U.S. Dept. Energy, Rept. GJBX-77-77, p. 403-409

1978 The effectiveness of stream sediment sampling along the Rio Ojo Caliente, New Mexico: U.S. Geol. Survey, Open-file Rept. 78-843, 9 p., 2 figs.

1979a Source for the anomalous uranium in surface waters of the Ojo Caliente area in New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 49

1979b Relative uranium scavenging affects of organic matter, clays, and iron and manganese oxides (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 49-50

1979a (and Suits, V. J.) Chemical data and statistical analyses from a uranium hydrogeochemical survey of the Rio Ojo Caliente drainage basin, New Mexico—pt. 1, water: U.S. Geol. Survey, Open-file Rept. 79–996, 145 p.

1979b (and Suits, V. J.) Chemical data and statistical analyses from a uranium hydrogeochemical survey of the Rio Ojo Caliente drainage basin, New Mexico—pt. 2, stream sediments: U.S. Geol. Survey, Open-file Rept. 79-997, 128 p.

see Burnside and Wenrich-Verbeek, 1976

Wentworth, D. W.

1980 (Porter, D. A., and Jensen, H. N.) Geology of Crownpoint Sec. 29 uranium deposit, McKinley County, in Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 139–144, 7 figs.; abs. in Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, Program, p. 23

Wermiel, Dan E.

1978 Diagenetic history and dolomitization of Tamarora sequence (Mississippian) carbonates of the Pedregosa Basin, southeastern Arizona, southwestern New Mexico, and northern Sonora and Chihuahua, Mexico: M.S. thesis, Arizona State Univ., 156 p.

see Silver, B. A., and Wermiel, 1976

West, Francis G.

1976 (and Laughlin, A. W.) Spectral gamma logging in crystalline basement rocks: Geology, v. 4, no. 10, p. 617-618, 5 figs.

1976 (and Purtymun, W. D.) Geology of the LASL Fenton Hill site (abs.): Am. Geophys. Union (EOS), Trans., v. 57, no. 4, p. 349

see Aiken, Laughlin, and West, 1977, 1978; Balagna, West, and others, 1977; Charles, West, and others, 1977; Kintzinger and others, 1978; Kintzinger and West, 1976; Laughlin and West, 1976, 1977; Laughlin, West, and others, 1977; Pettitt and West, 1978; and Purtymun, Adams, and others, 1977

West, Kenton L.

1979 P-wave travel-time delays for teleseismic events recorded in the Socorro, New Mexico, area: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 28, 121 p.

Western, Stephen K.

1977 (and Aiken, C. L. V.) Residual Bouguer gravity anomaly analysis of Chihuahua and Trans-Pecos (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 2, p. 297

Wheeler, M. L.

see Purtymun, Rogers, and Wheeler, 1980

White, C. S.

1978 (Gosz, J. R., and Moore, D. I.) Impact of a ski basin on a mountain watershed—I, bacteriological water quality: Water, Air, and Soil Pollution, v. 10, no. 1, p. 71-79, 5 tables, 2 figs.; Sel. Water Resources Abs., 1979, v. 12, no. 13, p. 35

see Moore, D. I., and others, 1978

White, D. L.

1978a Rb-Sr isochron ages of some Precambrian plutons in south-central New Mexico: Isochron/West, no. 21, p. 8-14, 4 tables, 5 figs.; Ph.D. thesis, Miami (Ohio) Univ., 88 p.

1978b Precambrian Rb-Sr geochronology of the Ojita, Ladron, Magdalena, and Oscura plutons, south-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 3, p. 153

1979 Rb-Sr age and isotopic data of some Precambrian plutons in central New Mexico, U.S.A.: Mtn. Geologist, v. 16, no. 4, p. 131-137

White, D. W.

see Chapin, Chamberlin, Osburn, and others, 1978; and Chapin, Sanford, and others, 1979

White, G. C. see Hakor

see Hakonson, White, and others, 1980

White, Mike E.

see Morain and others, 1977

White, Natalie D.

see Wilson, R. P., and White, 1976

White, Robert R.

1980 (and Dein, W. K.) Water-resources investigations of the U.S. Geological Survey, New Mexico district, fiscal year 1979: U.S. Geol. Survey, Open-file Rept. 80-408, 78 p.

see Wilson, C. A., White, and Roybal, 1979a,b; and Wilson, C. A., White, and others, 1978

White, William D.

1979 (and Wells, S. G.) Forest-fire devegetation and drainage basin adjustments in mountainous terrain, *in* Adjustments of the fluvial system, D. D.

Rhodes, editor: 10th Ann. Geomorphology Symp., p. 199-223

see Wells and White, 1978

Whyte, Michael R.

1977a (and Shomaker, J. W.) A geological appraisal of the deep coals of the Menefee Formation of the San Juan Basin, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, Suppl. Articles, p. 41–48, 4 tables, 5 figs.

1977b (and Shomaker, J. W.) A geologic appraisal of the deep coals of the San Juan Basin (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 80-81

see Austin, G. S., and Whyte, 1976; and Shomaker, J. W., and Whyte, 1977

Widdicombe, Roberta E.

1979 Quaternary surficial features in the Delaware Basin, Eddy and Lea Counties, New Mexico: M.S. thesis, Univ. New Mexico, 178 p.

Widmier, J. M.

see Sangree and Widmier, 1978, 1979

Wiebmer, J. D.

see Li and Wiebmer, 1978

Wiedenmayer, Felix

1980 The Permian reef complex of Texas and New Mexico: Sedimenta, v. 8, p. 113-121

Wienke, C. L.

see Purtymun, Dreesen, and Wienke, 1977; and Wangen and Wienke, 1978

Wierenga, P. J.

see Van de Pol and others, 1977

Wilcox, R. W.

1980 (Moore, M. J., and Lambert, P. W.) Revised coal-development potential for certain Federal coal lands in the Lee Ranch area, McKinley County, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-868, 4 p.

Wilkening, Marvin H.

see Schery and others, 1980

Wilkins, D. W.

1980 (Scott, W. B., and Kaehler, C. A.) Planning report for the southwest alluvial basins (east) regional aquifer-system analysis, parts of Colorado, New Mexico, and Texas: U.S. Geol. Survey, Open-file Rept. 80-564, 43 p.

see Havens and Wilkins, 1979; and Soule and Wilkins, 1979

Wilkinson, William H.

1976 Geology of the Tres Montosas-Cat Mountain area, Socorro County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 158 p., 8 tables, 26 figs., 3 sheets, appendix; New Mexico Bureau Mines Mineral Resources, Open-file Rept. 39, 169 p.

Williams, Frank E.

see Segerstrom and others, 1979

Williams, L. M.

1979 Gravity study of the Los Alamos area, New Mexico: Los Alamos Sci. Lab., Rept. LA-8154-MS, 18 p.

Williams, R. A.

see Balagna, Beddoe, and others, 1978

Williams, S. A.

1978 Mineralization at Granite Gap, Hidalgo County, New Mexico: New Mexico Geol. Soc.,

Guidebook 29th field conf., southeastern Arizona, p. 329-330, 1 fig.

1979 Rajite, naturally occurring cupric pyrotellurite, a new mineral: Mineralogical Mag., v. 43, no. 325, p. 91-92, 2 tables

Williams, Susan

1978 (and Murthy, V. R.) Genetic relationships of volcanic rock from the Taos Plateau, Rio Grande rift—Rb-Sr and Sm-Nd isotopic systematics, *abs. in* International symposium on the Rio Grande rift: Los Alamos Sci. Lab., Program and Abs., Rept. LA-7487-C, p. 100

1979 (and Murthy, V. R.) Sources and genetic relationships of volcanic rocks from the northern Rio Grande rift—Rb-Sr and Sm-Nd evidence (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 407

Williamson, Charles R.

1978 Depositional processes, diagenesis and reservoir properties of Permian deep-sea sandstones, Bell Canyon Formation, Texas-New Mexico: Ph.D. thesis, Univ. Texas (Austin), 276 p.; Dissert. Abs. Internat., 1979, v. 39, no. 7, p. 3206-B-3207-B

1979a Deep-sea deposition in density-stratified cratonic basin, Bell Canyon Formation (Permian), Delaware Basin, Texas-New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 3, p. 553

1979b Deep-sea sedimentation and stratigraphic traps, Bell Canyon Formation (Permian), Delaware Basin, *in* Guadalupian Delaware Group of west Texas and southeast New Mexico, N. M. Sullivan, editor: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., p. 39-74

1980a Reservoir rock, source rock, and trapping mechanism of Permian basinal facies, Delaware Basin (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 64, no. 5, p. 803-804

1980b Sedimentology of Guadalupian deep-water clastic facies, Delaware Basin, New Mexico and Texas: New Mexico Geol. Soc., Guidebook 31st field conf., Trans-Pecos, p. 195-204, 11 figs.

Williamson, Turner F.

1978 Petrology of the lower Arroyo Peñasco (Mississippian), Taos County, New Mexico: M.S. thesis, Univ. Texas (Austin)

Willingham, D. L.

1979 Stratigraphy of the Pliocene-Pleistocene upper Santa Fe Group in the El Paso region, west Texas and south-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 11, no. 6, p. 305

Williston, McNeil, and Associates, Inc.

1979 Time domain survey of the Los Alamos region New Mexico: Natl. Tech. Inf. Serv., Rept. LA-7657-MS, 52 p.; *abs. in* New Mexico Geology, 1980, v. 2, no. 1, p. 13

Wilshire, H. G.

1977 (Padovani, E. R., Wohletz, K. H., Holloway, J. R., Cross, C., Smith, D., and Arculus, R. J.) Basalt nodule guide: Washington, D.C., The Geophys. Lab., Guidebook, 2nd Internat. Kimberlite Conf.

Wilson, Clyde A.

1979a (White, R. R., and Roybal, R. G.) Ground water conditions in the vicinity of Elephant Butte Irrigation District well field (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 125-126

1979b (White, R. R., and Roybal, R. G.) Groundwater resources of the lower Rio Grande valley area of New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 126

1978 (White, R. R., Roybal, R. G., and Gonzales, J. L.) Drilling, construction and testing of water-supply wells 21 and 22, White Sands Missile Range, Doña Ana County, New Mexico: U.S. Geol. Survey, Openfile Rept. 78–172, 52 p., 5 tables, 14 figs.

Wilson, James L.

1977a Regional distribution of phylloid algal mounds in Late Pennsylvanian and Wolfcamp strata of southern New Mexico, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 1–7, 3 figs.

1977b Stop C-2, Virgilian cyclic strata, Holder Formation, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 169-173, 2 figs.

see Toomey and Wilson, 1977; and Toomey and others, 1977a,b

Wilson, John C.

1977 The McKinley mine: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Baisn III, p. 253-255, 2 figs.

Wilson, John E.

1977 Stratigraphy and structure of part of the Abiquiu embayment of the Rio Grande rift, New Mexico: M.S. thesis, Univ. New Mexico, 90 p.

Wilson, Lee

1976a Summary of data and observations resulting from the ROMCOE ground-water level monitoring program: Lee Wilson and Assoc., rept., 8 p.

1976b ROMCOE environmental study, Oxymin Cerrillos Project: Lee Wilson and Assoc., consult.

rept. to Occidental Minerals Corp.

1979 (and Jenkins, D. N.) Ground-water resources of Santa Fe country: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 293–298, 2 tables, 1 fig.

Wilson, M. D.

see Pittman and Wilson, 1977

Wilson, M. G.

see Cremer and others, 1980

Wilson, R. P.

1976 (and White, N. D.) Maps showing ground-water conditions in the San Simon area, Cochise and Graham Counties, Arizona, and Hidalgo County, New Mexico—1975: U.S. Geol. Survey, Water-resources Inv. 76–89

Wilson, R. W.

1980 (and Jentgen, R. W.) Coal test drilling in the De-Na-Zin Bisti area, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-1289, 111 p.

Wilt, Jan C.

see Callender, Wilt, and Clemons, 1978; Keith and Wilt, 1978; and Keith, Wilt, and others, 1978

Winchester, J. W.

1979 (and Ferek, R. J.) Comparison of aerosol sulfur and crustal element concentrations in particle size fractions from continental U.S. locations: Water, Air, and Soil Pollution, v. 12, no. 4, p. 431-440

Winchester, Paul D.

1976 Carbonate diagenesis and cyclic sedimentation in the Wolfcampian Laborcita Formation of the Sacramento Mountains, New Mexico: Ph.D. thesis, Rice Univ., 176 p.; Dissert. Abs. Internat., v. 37, no. 4, p. 1600-B

1977 Evidence for solution compaction in lime grainstones (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 5, p. 841

Windom, Kenneth E.

see Stewart, D. C., and Windom, 1979

Witcher, James C.

see Swanberg and others, 1977

Witmer, R. E.

see Anderson, J. R., and others, 1976

Wobus, R. A.

1980 (and Hedge, C. E.) Rb-Sr isochron age of Precambrian plutons of the San Pedro Mountains, north-central New Mexico: Isochron/West, no. 27, p. 19–25, 2 tables, 4 figs.

Wohletz, Kenneth H.

1976 (and Sheridan, M. F.) A model for base-surge deposits (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 5, p. 645-646

see Wilshire and others, 1977

Wolberg, Donald L.

1980a Dinosaurs, turtles, badlands, and coal in northwest New Mexico: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1978–79, p. 68-74

1980b Goniopholis kirtlandicus Wiman—forgotten crocodile from the Kirtland Formation, San Juan Basin, New Mexico: New Mexico Geology, v. 2, no. 3, p. 39-41

1980c Data base and review of paleofaunas and floras of the Fruitland Formation (Late Cretaceous), San Juan Basin, with interpretive observations and age relationships: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 117, 72 p.

1980 (and LeMone, D. V.) Paleontology of Fruitland Formation near Bisti, San Juan Basin, New Mexico—a progress report: New Mexico Bureau Mines Mineral Resources, Ann. Rept. 1978-79, p. 55-57

1980 (and Rigby, J. K., Jr.) Vertebrate paleontology of the Fruitland Formation, San Juan Basin, New Mexico—recent discoveries (abs.): Soc. Vertebrate Paleontology, 40th ann. mtg., Program

see Rigby and Wolberg, 1980

Wolf, J. A.

1979 Early Tertiary flora found in New Mexico (abs.): U.S. Geol. Survey, Prof. Paper 1150, p. 217

Wongwiwat, K.

see Murr and Wongwiwat, 1976

Wood, C. B.

1979 (Conroy, G. C., and Lucas, S. G.) New discoveries of fossil primates from the type Torrejonian (middle Paleocene) of New Mexico: Folia Primatologica, v. 32, no. 1-2, p. 1-7

Wood, E. F.

see Moss and others, 1978

Wood, J. H.

see Attansi and others, 1979

Wood, W. W.

see Brown, R. F., and others, 1976

Woodcock, J. R.

1979 A guide to the molybdenum resources of North America and ongoing plans for development: Eng. and Mining Jour., v. 180, no. 8, p. 86–89

Woods, Geoffrey A.

see Reid, J. B., Bateman, and others, 1977; and Reid, J. B., and Woods, 1978a,b

Woodward, Lee A.

1976 Laramide deformation of the Rocky Mountain foreland—geometry and mechanics, *in* Tectonics and mineral resources of southwestern North America, L. A. Woodward and S. A. Northrop, editors: New Mexico Geol. Soc., Spec. Pub. 6, p. 11-17, 10 figs.

1977 Rate of crustal extension across the Rio Grande rift near Albuquerque, New Mexico: Geology, v. 5, no. 5, p. 269-272

1978 Nacimiento uplift of northwestern New Mexico—unique tectonic element of the Rocky Mountain foreland (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 3, p. 155

1980a Structure of thrust belt in southwestern New Mexico and implications for hydrocarbon exploration (abs.): Am. Assoc. Petroleum Geologists, Southern Sec., Ann Mtg., Program, p. 61-62

1980b A hard look at Overthrust Belt prospects in southwest New Mexico: Oil and Gas Jour., v. 78, no. 16, p. 114-116

1977a (and Callender, J. F.) Tectonic framework of the San Juan Basin: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, p. 209-212, 2 figs.

1977b (and Callender, J. F.) Tectonics and development of northern part of Rio Grande rift, New Mexico and Colorado (abs.): Geol. Soc. America, Abs. with Programs, v. 9, no. 1, p. 81-82

1978 (Callender, J. F., Seager, W. R., Chapin, C. E., Gries, J. C., Shaffer, W. L., and Zilinski, R. E., Jr.) Tectonic map of Rio Grande rift region in New Mexico, Chihuahua, and Texas, *in* Guidebook to Rio Grande rift in New Mexico and Colorado, J. W. Hawley, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 163, color sheet in pocket, scale 1:1,000,000

1977 (DuChene, H. R., and Martinez, R.) Geology of Gilman quadrangle, New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 45, scale 1:24,000

1976 (Gibson, G. G., and McLelland, Douglas) Geology of Gallina quadrangle, New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 39, scale 1:24,000

1979 (and Ingersoll, R. V.) Phanerozoic tectonic setting of Santa Fe country: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 51-57, 2 firs

1979a (Ingersoll, R. V., Fitch, D. C., and Hutchinson, Peter) Second day optional road log no. 1, Cerrillos turnoff on N.M. Highway 14 to Oxymin property in Cerrillos Hills: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 26, 2 figs.

1979b (Ingersoll, R. V., Fitch, D. C., and Hutchinson, Peter) Second day optional road log no. 2, N.M. Highway 14 to Goldfields Mining Corporation's

Ortiz mine: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 27-28, 5 figs.

1979 (Ingersoll, R. V., Fitch, D. C., Lisenbee, A. L., Black, B. A., and Saucier, A. E.) Second day, road log from Santa Fe to Galisteo, Cerrillos, Madrid, Golden, Hagan, and return to Santa Fe: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 15–25, 15 figs.

1977 (McLelland, Douglas, and Husler, J. W.) Precambrian rocks of the northern part of the Nacimiento uplift, New Mexico: New Mexico Geol. Soc., Guidebook 28th field conf., San Juan Basin III, 93– 98, 3 tables, 2 figs.

1976 (and Northrop, S. A., editors) Tectonics and mineral resources of southwestern North America: New Mexico Geol. Soc., Spec. Pub. 6, 218 p.

1979 (Parchman, M. A., Edwards, D. L., and Husler, J. W.) Stratigraphy and mineralization of Hell Canyon greenstone belt (Precambrian), New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 189–195, 3 tables, 4 figs.

1976 (and Ruetschilling, R. L.) Geology of San Ysidro quadrangle, New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 37, scale 1:24.000

1976a (and Snyder, D. O.) Tectonic map of the southern Raton Basin, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, sheet in pocket, scale 1:250,000

1976b (and Snyder, D. O.) Structural framework of the southern Raton Basin, New Mexico: New Mexico Geol. Soc., Guidebook 27th field conf., Vermejo Park, p. 125-127, 2 figs.

1978 (Snyder, D. O., and Husler, J. W.) Geology and mineralization at the Milagros gold deposit, central New Mexico: Mtn. Geologist, v. 15, no. 3, p. 73-78

1979 (and Timmer, R. S.) Geology of Jarosa quadrangle, New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 47, scale 1:24,000

see Callender, Woodward, and Kelley, 1976; DuChene and others, 1977; Fassett, Jentgen, and others, 1977; Gorham, F. D., and others, 1977, 1979; Ingersoll and Woodward, 1979; and Kelley, V. C., Woodward, and others, 1976

Woolfson, Walter

1977 San Juan Basin overriding royalty payment dispute "settled" by court and FPC decisions: Western Oil Reporter, v. 34, no. 3, p. 39

Worthen, John A.

see Jacka, Barone, and others, 1980

Worthington, R. D.

see Van Devender and Worthington, 1977

Wray, John L.

1977 Origin of some Pennsylvanian algal bioherms in southwestern United States (abs.), *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 164

Wright, Ann Finley

1978 Bibliography of the geology and hydrology of the Albuquerque greater urban area, Bernalillo and parts of Sandoval, Santa Fe, Socorro, Torrance, and Valencia Counties, New Mexico: U.S. Geol. Survey, Bull. 1458, 31 p., 2 figs.

1979a Bibliography of geology and hydrology, San Juan Basin, New Mexico, Colorado, Arizona, and Utah: U.S. Geol. Survey, Bull. 1481, 123 p.

1979b Bibliography of geology and hydrology, eastern New Mexico: Natl. Tech. Inf. Serv., Rept. PB-300-832, 174 p.; U.S. Geol. Survey, Waterresources Inv. 79-76, 174 p.

1980 Bibliography of geology and hydrology, southwestern New Mexico: Natl. Tech. Inf. Serv., Rept. PB-80 199 961, 259 p.; U.S. Geol. Survey, Water-resources Inv. 80–20, 259 p.

Wright, James C.

1978 Four maps showing lithologic distributions of selected parts of the Jurassic San Rafael Group, Utah, Colorado, Arizona, and New Mexico: U.S. Geol. Survey, Open-file Rept. 78-572, 9 p., 4 figs.

1979a (and Dickey, D. D.) Stratigraphic sections of Jurassic San Rafael Group and adjacent rocks in Rio Arriba and Santa Fe Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-247, 31 p., 1 fig.

1979b (and Dickey, D. D.) Stratigraphic sections of Jurassic San Rafael Group and adjacent rocks in San Juan and McKinley Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-715, 31 p.

1979 (Dickey, D. D., and Freeman, V. L.) Stratigraphic sections of Jurassic San Rafael Group and adjacent rocks in Valencia and Sandoval Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 79-836, 80 p.

see Finch and others, 1976

Wright, John R.

1977 (and Russell, J. A.) Bibliography of New Mexico geology and mineral technology 1971–1975: New Mexico Bureau Mines Mineral Resources, Bull. 106, 137 p.

Wright, L. A.

see Naert and others, 1980

Wright, R. P.

1977 (Brenner, R. L., Hileman, M. E., and Rautman, C. A.) Depositional models and paleobiogeography of the Jurassic in the Western Interior United States (abs.): Jour. Paleontology, v. 51, suppl. 2, pt. III, p. 32–33

Wright, Robert J.

1980 Grants and world uranium, *in* Geology and mineral technology of the Grants uranium region 1979, C. A. Rautman, compiler: New Mexico Bureau Mines Mineral Resources, Mem. 38, p. 22–35, 20 figs.; *abs. in* Grants uranium region, a symposium, Am. Assoc. Petroleum Geologists, 1979, Program, p. 20–21; Am. Assoc. Petroleum Geologists, Bull., v. 63, no. 4, p. 695

Wright, W. Floyd

1979 Petroleum geology of the Permian Basin: West Texas Geol. Soc., 98 p.

Wunder, John M.

see Dolton, Coury, and others, 1980; and Dolton and Wunder, 1978

Wyant, D. J.

1978 (and Olson, A. B.) Preliminary geologic map of the Albuquerque 1° by 2° quadrangle, northwestern New Mexico: U.S. Geol. Survey, Open-file Rept. 78–467, 7 p., scale 1:250,000

Wyman, William F.

1980a Proterozoic komatiites from the Sangre de

Cristo Mountains, north-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 12, no. 7, p. 553

1980b Precambrian geology of the Cow Creek ultramafic complex, San Miguel County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 125 p.; abs. in New Mexico Geol., v. 2, no. 3, p. 47-48

Wynn, Jeffrey C.

1978 Parallel-surface-continued aeromagnetic map of the San Lorenzo and Hillsboro quadrangles, Grant and Sierra Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-L, scale 1:48,000

1978 (and Dansereau, D. A.) Complete Bouguer gravity map of the San Lorenzo and Hillsboro quadrangles, Grant and Sierra Counties, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-900-M, scale 1:48,000

1979 (and Dansereau, D. A.) Preliminary complete Bouguer gravity anomaly map of the Silver City two-degree sheet, New Mexico and Arizona: U.S. Geol. Survey, Open-file Rept. 79-708, scale 1:250,000

1979 (and Hedlund, D. C.) Geophysics, in Background information to accompany folio of geologic, mineral resource, geochemical, aeromagnetic, and gravity maps of the Hillsboro and San Lorenzo quadrangles, Sierra and Grant Counties, New Mexico: U.S. Geol. Survey, Circ. 808, 26 p.

see Dansereau and Wynn, 1978

Wynne, C. C.

1978 Continuous mining—the problem and the answer, abs. in Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas, G. S. Austin, compiler: New Mexico Bureau Mines Mineral Resources, Circ. 159, p. 87

Yamamoto, G. S.

see DeCicco, Patterson, and Yamamoto, 1980c

Yoder, H. S., Jr.

1976 Generation of basaltic magma: Washington, D.C., Natl. Acad. Sci., 265 p.

York, D.

see Strangway and others, 1976

York, James E.

see Reilinger, Brown, and others, 1978, 1979; and Reilinger and York, 1978, 1979

Young, R.

see McGetchin, Burke, and others, 1979

Young, Robert G.

1977 Sandstone depositional systems in uraniferous sandstones of Colorado Plateau (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 5, p. 843

1978 Depositional systems and dispersal patterns in uraniferous sandstones of the Colorado Plateau: Utah Geol., v. 5, no. 2, p. 85-102

Young, W.

see Edwards and others, 1978

Yousef, Ali A.

1977 A study of time residuals in the Socorro area for Pn arrivals from mining explosions at Santa Rita, Tyrone, New Mexico, and Morenci, Arizona: New Mexico Inst. Mining and Tech., Geophysics Open-file Rept. 12b, 32 p.

Yousefpour, M. V.

1978 Geology and contact pyrometasomatic ore de-

posits at the Continental mine, Fierro, New Mexico: M.S. thesis, Colorado School Mines

Yuras, Walter

1976 The origin of the Lincoln fold belt, Lincoln County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 97 p.

Yurewicz, Donald A.

1976a Sedimentology, paleoecology, and diagenesis of the massive facies of the lower and middle Capitan Limestone (Permian), Guadalupe Mountains, New Mexico and west Texas: Ph.D. thesis, Univ. Wisconsin, 296 p.; Dissert. Abs. Internat., 1977, v. 38, no. 1, p. 109-B-110-B

1976b Genesis of the lower and middle Capitan Limestone massive (Permian), Guadalupe Mountains, New Mexico and west Texas (abs.): Geol. Soc. America, Abs. with Programs, v. 8, no. 4, p. 519

1977a Sedimentology of Mississippian basin-facies carbonates, New Mexico and west Texas—the Rancheria Formation, *in* Deep-water carbonate environments, H. E. Cook, editor: Soc. Econ. Paleontologists and Mineralogists, Spec. Pub. 25, p. 203–219

1977b The Rancheria Formation—Mississippian intercratonic basinal limestones, *in* Geology of the Sacramento Mountains, Otero County, New Mexico, J. H. Butler, editor: West Texas Geol. Soc., Guidebook, Pub. 1977-68, p. 71-72

1977c Evolution of Capitan massive limestone (Permian) of Guadalupe Mountains, New Mexico and west Texas (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 61, no. 5, p. 843–844

1977d Origin of the massive facies of the lower and middle Capitan Limestone (Permian), Guadalupe Mountains, New Mexico and west Texas: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 1, p. 45-92

1977e Locality guide, stop IV, lower Capitanmassive, inner Slaughter Canyon: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Pub. 77-16, Guidebook 1977 field conf., v. 2, p. G57-G71

1978 Syndepositional submarine cementation of Capitan Limestone (Permian), Guadalupe Mountains, west Texas and New Mexico—cement evolution (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 62, no. 3, p. 573

see Babcock, J. A., and others, 1977a,b; and Babcock, J. A., and Yurewicz, 1978

Zantop, Half

1980 Paleozoic stratiform Cu-Pb-Zn deposits in Arizona and New Mexico: Geol. Soc. America, Abs. with Programs, v. 12, no. 3, p. 161

Zartman, Robert E.

1979 Uranium, thorium, and lead concentrations and lead isotopic composition of biotite granodiorite (sample 9527-2b) from LASL drill hole GT-2: Los Alamos Sci. Lab., Rept. 7923, 18 p.

Zech, Robert S.

1980 Preliminary geologic map of the Twin Lakes quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Open-file Rept. 80-77, scale 1:24,000

1979 (and Knepper, D. H., Jr.) Landsat linear fea-

tures data for the Gallup-Grants uranium district, New Mexico: U.S. Geol. Survey, Open-file Rept. 79– 1507, 35 p.

see Kirk, Huffman, and others, 1978; and Kirk and Zech, 1976a-c, 1977, 1978

Zeller, Robert A., Jr.

1976 Stratigraphy and age of the *Tempskya*-bearing rocks of southern Hidalgo County, New Mexico: U.S. Geol. Survey, Prof. Paper 874, p. 16–22

Zetterlund, Dale

see Walton and others, 1980

Zielinski, Robert A.

1979 Uranium mobility during interaction of rhyolitic obsidian, perlite and felsite with alkaline carbonate solution— $T = 120^{\circ}$ C, P = 210 kg/cm²: Chem. Geology, v. 27, no. 1/2, p. 47-63, 5 tables, 4 figs.

Zilinski, Robert E., Jr.

1976 Geology of the central part of the Lucero uplift, Valencia County, New Mexico: M.S. thesis, Univ. New Mexico, 69 p.

see Callender and Zilinski, 1976; and Woodward, Callender, and others, 1978

Zimmerman, Charles J.

1979 Geochemistry of andesites and related rocks, central-northern Rio Grande rift, New Mexico: M.S. thesis, Univ. New Mexico, 111 p.

1978 (and Kudo, A. M.) The role of paragasitic hornblende in andesite genesis, Rio Grande rift, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 10, no. 7, p. 522; *abs. in* International symposium on the Rio Grande rift, Los Alamos Sci. Lab., 1978, Program and Abs., Rept. LA-7487-C, p. 101-102

1979a (and Kudo, A. M.) Geology and petrology of Tetilla Peak, Santa Fe County, New Mexico: New Mexico Geol. Soc., Guidebook 30th field conf., Santa Fe, p. 253–256, 5 tables, 2 figs.

1979b (and Kudo, A. M.) Geochemistry of andesites and related rocks, Rio Grande rift, New Mexico, *in* Rio Grande rift—tectonics and magmatism, R. E. Riecker, editor: Am. Geophys. Union, p. 355–381, 8 tables, 11 figs.

see Brookins and Zimmerman, 1980

Zimmerman, George D.

1977 Tulk Penn and Wolfcamp fields, Lea County, New Mexico, *in* The oil and gas fields of southeastern New Mexico, 1977 supplement, K. C. Havenor, editor: Roswell Geol. Soc., p. 204–205, 1 table, 1 fig.

Zoback, Mary Lou

1975 State of stress in the southern Basin and Range province and Colorado Plateau (abs.): Am. Geophys. Union (EOS), Trans., v. 60, no. 18, p. 311

Zobeck, Teddy M.

1980 Soil moisture regimes along a vegetation transect in central New Mexico: Ph.D. thesis, New Mexico State Univ., 220 p.; Dissert. Abs. Internat., v. 41, no. 2, p. 433-B

Zohdy, Adel A. R.

1976 (Bisdorf, R. J., and Gates, J. S.) Schlumberger soundings in the lower Mesilla Valley of the Rio Grande, Texas and New Mexico: U.S. Geol. Survey, Open-file Rept. 76–324, 77 p., 72 figs.

Index

Abiquiu Tuff, see Santa Fe Group

Abo Formation, Adams, R. D. (1978); Berman, D. S. (1976, 1979); Berman, D. S., and Reisz (1980); Delgado (1977a, b); Kottlowski, Seager, and others (1977); Langford (1980); LaPoint (1979)

aggregate, New Mexico State Highway Department (1978) Albuquerque Basin, Kasten, J. A. (1977); Kaufman, S., and Oliver (1977); Kelley, V. C. (1976, 1977, 1978b, c); Kelley, V. C., and Kudo (1978); Kelley, V. C., Woodward and others (1976); Kudo and others (1977); Lambert, P. W. (1978b)

Aleman Formation, see Montoya Group

A-L Peak tuff, Chapin and Deal (1976)

aluminum, Hall, R. B. (1978); Heinrich (1980)

Ambrosia Lake uranium district

Dakota Sandstone, Pierson and Green (1977, 1980) exploration, Brady and Rice (1977); Fitch (1977); Hayslip, Fuller, and others (1980); Hayslip and Renault (1976) ground water, Brod (1979); Kelley, T. E., Link, and Schippen (1980)

hydrology, Purtymun, Dreesen, and Wienke (1977) Johnny M mine, Falkowski (1980a, b)

Kerr–McGee mine, Simpson, D. N. (1978)

La Bajada deposit, Vassiliou (1980a, b)

Morrison Formation, Smith, D. A., and Peterson (1980) Sandstone mine, Foster, J. F., and Quintanar (1980)

Anapra sandstone, Strain (1976)

Ancha Formation, see Santa Fe Group

Animas Mountains, Erb (1979)

Animas Valley

KGRA, Chaturvedi and Ramos-Arras (1979); Dellechaie (1977)

soils, Fleischhauer (1977a)

aragonite, Folk, R. L. (1977); Folk, R. L., and Assereto (1976); Mazzullo (1980); Mazzullo and Cys (1978a, b, 1979a, b)

Arbuckle Group, Gatewood (1978)

Arroyo Peñasco breccia, Vaughan (1978); Vaughan and Meyers (1976)

Artesia Group

Capitan aquifer, see Capitan Limestone or reef complex Queen Formation, Lampert (1977)

Seven Rivers Formation, Hurley, N. F. (1978, 1979); Sarg (1976a, b)

Tansill Formation, Esteban and Pray (1977 a-e); Neese (1979a, b); Neese and Schwartz (1977); Pray and Schwartz (1977); Toomey and Cys (1977a); Tyrrell and others (1978)

Yates Formation, Neese (1979a, b); Neese and Schwartz (1977); Peterson, D. N. (1979); Pray and Schwartz (1977) axinite, Ricciardi (1978)

Baca Formation, Belcher and Galloway (1977); Cather (1980); Cather and Johnson (1980); Chaiffetz (1979); Johnson, B. D. (1978); Massingill (1978b); Schiebout and Schrodt (1980); Schrodt (1980)

Banco Bonito Member, see Valles Rhyolite

Bandelier National Monument, Purtymun and Adams (1980)

Bandelier Tuff, see Tewa Group

Bandera Crater, Gallagher (1973)

barite, Kottlowski and Steensma (1979)

basalt, Aoki and Kudo (1976); Baldridge (1976, 1977, 1978, 1979a-c); Berman, R. G., and Reid (1976); Crumpler (1976, 1977, 1980); Faris (1980); Faris and Renault (1980); Laughlin, Brookins, and Damon (1976); Laughlin, Brookins, Damon, and Shafiqullah (1979); Lofgren (1979); Manley (1976a); Menzies and Murthy (1980); Reid, J. B., Bateman, and others (1977); Reid, J. B., and Woods (1978b); Renault (1978a, b); Saito, Basu, and others (1977); Saito, Menzies, and others (1978); Schwartz and Irving (1978);

Warren, R. G. (1978, 1979); Warren, R. G., and others (1978); Wilshire and others (1977); Yoder (1976)

Basin and Range province, Damon (1976); Deal, Elston, and others (1978); Eaton (1979b); Elston (1976c, 1977); Elston and Erb (1980); Hawley, Bachman, and Manley (1976); Keller, G. R., and Braile (1979); Keller, G. V., Grose, and Crewdson (1978); Livaccari (1979); Lovejoy (1977, 1980); Mutschler and others (1978); Newman and Goode (1979)

Beartooth sandstone, Chafetz (1976)

Bell Canyon Formation, see Delaware Mountain Group **Bell Top Formation,** Clemons (1976b)

Bernalillo County

Albuquerque, Birch (1980); Brewer (1974); Chambers–Campbell–Isaacson–Chaplin, Inc. (1976); Kaufman and others (1980); Wright, A. F. (1978)

Albuquerque 2° quadrangle, DeCicco, Patterson, and Lutz (1978a); Geometrics (1979a), Maassen, Bolivar, and others (1979); Wyant and Olson (1978)

Albuquerque 1/2° × 1° quadrangle, U.S. Geol. Survey (1979e)

Arroyo de Yrisarri, Hagerman (1976a)

Bouguer gravity studies, Cordell, L. (1978c); Cordell, L., and Detmering-Beal (1978)

Cat Hills volcanic field, Baldridge, Perry, and Gladney (1980); Kudo and others (1977)

crustal structures, Bache and others (1978)

faults, Machette (1976b, 1978d, e)

geomorphology, Lambert, P. W. (1978b)

geothermal energy, Kauffman, D., and others (1980); Parker, M. D., and Jiracek (1980)

hydrology, American City and County (1977); Chambers– Campbell–Isaacson–Chaplin, Inc. (1976); Hagerman (1976a); Hudson, J. D. (1978a, 1980); Hydrotechnics (1976); Summers (1976b); Wright, A. F. (1978)

Isleta volcano, Kudo and others (1977)

land classification map, DeCicco, Patterson, and Lutz (1978a, 1979)

Madera Formation, Mukhopadhyay and Brookins (1976a, b)

magnetic survey, Geometrics (1979a); High Life Helicopters and Geodata International (1979)

Milagros gold deposit, Woodward, Snyder, and Husler (1978)

Quaternary, Lambert, P. W. (1976) radioactive pollution, Brewer (1974)

road logs, Hawley (1978c); Hawley, Chapin, Chamberlin, and others (1978); Lambert, P. W. (1976, 1978a); Saucier (1979); Woodward, Ingersoll, Fitch, and others (1979)

Santa Fe Formation, Lambert, P. W. (1978b)

scoria, Cima (1978)

von Seggern (1977)

Sedillo 71/2' quadrangle, Myers and McKay (1976) seismology, Jaksha (1976); Jaksha and Locke (1978); Jaksha, Locke, and others (1977, 1978); North, R. G., and Frasier (1977); Strauss (1977); Stump and Reinke (1980);

Socorro 2° quadrangle, DeCicco, Patterson, and Lutz (1979); High Life Helicopters and Geodata International

soil survey, Hacker (1977)

Tijeras Canyon, Hudson, J. D. (1978a, 1980)

Tijeras 71/2' quadrangle, Myers and McKay (1976)

beryl, Kimbler and Haynes (1979)

bibliographies

Albuquerque greater urban area, Wright, A. F. (1978) Cenozoic freshwater mollusca, Taylor, D. W. (1980) eastern New Mexico, Wright, A. F. (1979b) general, Wright, J. R., and Russell (1977)

ground water, Borton (1976, 1978, 1979b, 1980); Borton Catron County and Jones (1976, 1978) Ake Site, Weber, R. H. (1980c) Alegros Mountain area, Jones, D. P. (1980) Precambrian, Robertson, J. M. (1976a) radioactive-waste disposal, Glanzman (1980) Baca Formation, Schrodt (1980) San Juan Basin, Wright, A. F. (1979a) Bear Canyon, Frost (1980) Bouguer gravity anomaly, Eaton, Peterson, and Webring southwestern New Mexico, Wright, A. F. (1980) (1977); Eaton, Peterson, Webring, and Ratte (1976) Big Hatchet Mountains, Armstrong and Mamet (1978a); Chloride mining district, Maxwell, C. H., and Heyl (1980) Scott, R. W. (1979); Simpson, R. D., LeMone, and Clifton 2° quadrangle, DeCicco, Patterson and Yamamoto Thompson (1978a, b); Weise and LeMone (1980) bioherms, Hosseini (1980); Parks (1976a, b, 1977b, d); (1980); Sharp and others (1978) Cooney mining district, Eveleth (1979a) Toomey (1980); Toomey and Cys (1979); Toomey and others (1977a, b); Toomey and Wilson (1977); Wilson, J. Datil, Lopez, D. A., and Bornhorst (1979) L. (1977a); Wray (1977) Datil Mountain coal field, Frost and others (1980) Bisbee Group general, Bikerman (1976) U-Bar Formation, Weise and LeMone (1980) guidebook, Clemons, Christiansen, and James (1980) Bisti area, Kues, Froehlich, and others (1977); LeMone land classification map, Banaszyski and others (1979); DeCicco and Patterson (1979a); DeCicco, Patterson, and and others (1977, 1979); Rigby and Wolberg (1980); U.S. Lutz (1979); DeCicco, Patterson, and Yamamoto (1980) Bureau of Reclamation (1976e); U.S. Dept. Interior (1977); Wilson, R. W., and Jentgen (1980) magnetic survey, High Life Helicopters and Geodata International (1979) bixbyite, Lufkin (1976) Black Mesa, Peterson, F., and Kirk (1977); U.S. Geol. Mangas, Frost (1980) Survey (1978) Mogollon mining district, Watts, Hassemer, Forn, and Black Prince Limestone, Spencer, P. K. (1980) Siems (1979) Mogollon 71/2' quadrangle, Ratte (1977) Black Range beryl, Kimbler and Haynes (1979) rajite, Williams, S. A. (1979) Emory cauldron, Seager (1978b) road logs, Bornhorst and Elston (1978); Clemons, Chrisoxide minerals, Lufkin (1976) tiansen, and James (1980); Coney and Elston (1978a, Rubio Peak Formation, Hedlund (1976) b); Ratte and Finnell (1978) uranium, Burt and Sheridan (1980); Correa (1980); Sher-Saint Johns 2° quadrangle, DeCicco and Patterson (1979a); idan and Burt (1979) Maassen and others (1980); Sharp and others (1978) volcanic geology, Erickson and Wedow (1976); Fodor Saliz Pass 71/2' quadrangle, Ratte (1980) Socorro 2º quadrangle, DeCicco, Patterson, and Lutz (1976, 1978)(1979); High Life Helicopters and Geodata International wood-tin, Lufkin (1977) Bliss Sandstone, LeMone (1977) Bridge Creek Member, see Greenhorn Limestone Spring Canyon 71/2' quadrangle, Richter (1978) Brushy Basin Shale Member, see Morrison Formation Tularosa 2° quadrangle, Banaszyski and others (1979); Brushy Canvon Formation, see Delaware Mountain Group Geodata International (1978) Burro Canyon Formation, Owen, Walters, Depetro, and uranium, Morgan, T. L., and others (1980c) Turmelle (1978); Owen, Walters, Kosturu, and Grant (1976); Cedar Hills vent zone, Clemons (1978) Russell, J. A. (1979) Cejita member, see Tesuque Formation Burro Mountains, Langford (1980) Cenozoic, Aoki and Kudo (1976); Bachman (1976c); Chapin Caballero Formation, Conkin and Conkin (1979); Meyers (1978c); Elston and Northrup (1976); Hawley (1978e); Laughlin, Brookins, and Damon (1976); Laughlin, Brook-Cabalio Mountains, Loring and Armstrong (1980) ins, Damon, and Shafiqullah (1979); May (1980); Moore, calcite, Folk, R. L. (1977); Folk, R. L., and Assereto (1976); R. B. (1978); Muehlberger (1979b) Lohmann (1978); Lohmann and Meyers (1976, 1977) Cerro del Cristo Rev. Lovejoy, (1976b) Caloso Formation, Meyers (1978, 1980) Cerro Toledo Rhyolite, see Tewa Group Cerros del Rio volcanic field, Aubele (1978a, b, 1979) Campanian, Armstrong-Ziegler (1978) Camp Rice Formation, see Santa Fe Group Chaco Canyon, Betancourt and Van Devender (1980); Capitan Limestone or reef complex, Anderson, R. Y., and Brookins (1979e); Ebert and Gutierrez (1979); Hall, S. A. Kirkland (1979, 1980); Babcock, J. A. (1977, 1979); Bab-(1977, 1980); Hicks, R. T., and others (1980); Lease (1979); cock, J. A., and others (1977a, b); Babcock, J. A., and Love (1976, 1977, 1979, 1980); Lyons and others (1976); Yurewicz (1978); Cys, Brezina, and Greenwood (1977); Ross, J. R. (1978) Cys, Greenwood, and Brezina (1976); Cys and others (1977); chalcocite, Shantz (1976) Esteban (1977); Esteban and Pray (1976); Hiss (1975, 1976b, Chama Basin, Ridgley (1977) c, 1980); Jagnow (1977); Lohmann (1978); Loucks and Chama-El Rito Member, see Tesuque Formation Folk (1976); Mazzullo (1980); Mazzullo and Cys (1977, Chamita Formation, see Santa Fe Group 1978a, b, 1979a, b); Pray and Esteban (1977); Queen Chaves County (1980); Queen and others (1979); Rudolph (1979); Schmidt Artesia Group, Lampert (1977) (1977); Toomey and Cys (1977a); Tyrrell and others (1978); Bottomless Lakes State Park, Kottlowski (1979b) Wiedenmayer (1980); Yurewicz (1976a, b, 1977c-e, 1978) Brownfield 2° quadrangle, DeCicco and Patterson (1980a); Capitan Mountains, Blagbrough (1976) U.S. Geol. Survey (1980f) carbonatites, McLemore (1980c) Buffalo Valley Penn field, Ahlen and Havenor (1977) Carlile Shale, see Colorado Group Carlsbad 2° quadrangle, DeCicco and Patterson (1979c); Carlsbad Caverns, Des Marais and others (1980); Folk, U.S. Geol. Survey (1976a, 1980a) Cato field, Scott, G. L., and Reddy (1977) R. L. (1977); Folk, R. L., and Assereto (1976); Kendall and Broughton (1977); McLean (1976); Van Cleave (1976) Clovis 2° quadrangle, DeCicco and Patterson (1980c); Carrizo Mountain, Huffman, Kirk, and Corken (1980) Texas Bureau of Economic Geology (1978); U.S. Geol. cassiterite, Lufkin (1976, 1979) Survey (1980e) Castile Formation, Anderson, R. Y., and Powers (1978); Double L-Queen Associated field, Lampert (1977b)

Fort Sumner 2° quadrangle, DeCicco and Patterson (1980g)

general, Black, B. A. (1976a, b)

Haystack Cisco field, David, E. K. (1977a)

Brookins, Register, Register, and Lambert (1978); Dean

(1980); Dean and Anderson (1978a, b); Kirkland and Evans

(1980); Shaw (1977)

Haystack Siluro-Devonian field, David, E. K. (1977b) Hobbs 2° quadrangle, DeCicco and Patterson (1979d); Texas Bureau of Economic Geology (1976); U.S. Geol. Survey (1980d) hydrology, Geohydrology Associates, Inc. (1978) land classification map, DeCicco and Patterson (1979b-d, 1980a, c, g); U.S. Geol. Survey (1976a, 1980a, d-f)

petroleum and natural gas, Ahlen and Havenor (1977); Havenor (1977); Lampert (1977); Roswell Geological Society (1977); Scott, G. L. (1980)

Queen sand in Double L and Sulimar fields, Lampert (1977a)

Roswell 2° quadrangle, DeCicco and Patterson (1979b) Roswell Range, Geohydrology Associates, Inc. (1978) Round Tank (Queen) field, Kelly, J. M. (1977)

Siete San Andres field, LeMay (1977b) soil survey, Hodson and others (1980)

Sulimar Queen field, Lampert (1977c)

Tom-Tom and Tomahawk San Andres fields, Scott, G. L. (1977b, 1980)

Twin Lakes Devonian fields, Stevens, D. G. (1977a) Twin Lakes San Andres field, Stevens, D. G. (1977b)

Cherry Canyon Formation, see Delaware Mountain Group chert, Iovenitti and Renault (1977)

Chihuahuan Desert, Harris (1977); Van Devender and Worthington (1977); Wauer and Riskind (1977)

Chinle Formation, see Dockum Group Chuska Mountains, Ehrenberg (1977)

Chuska Sandstone, Trevena and Nash (1978a)

Cibola County

created out of the western half of Valencia County in 1981 Acoma Pueblo 71/2' quadrangle, Maxwell, C. H. (1976a) Acoma region, Maxwell, C. H. (1976b)

Albuquerque 2º quadrangle, DeCicco, Patterson, and Lutz (1978a); Geometrics (1979b); Maassen, Bolivar, and others (1979); Wyant and Olson (1978)

Crow Point 71/2' quadrangle, Maxwell, C. H. (1977c) Cubero 71/2' quadrangle, Maxwell, C. H. (1977b) East Mesa 71/2' quadrangle, Maxwell, C. H. (1979)

Gallup 2° quadrangle, Geometrics (1979b); Hackman and Olson (1977); Maassen, LaDelfe, and others (1980); Patterson, E. D., and others (1978); U.S. Geol. Survey (1979a, 1980b)

hydrology, Brod (1979)

land classification map, DeCicco and Patterson (1979a) DeCicco, Patterson, and Lutz (1978a, 1979); Patterson, E. D., and others (1978); U.S. Geol. Survey (1979a, 1980b)

Los Pilares 7¹/₂' quadrangle, Maxwell, C. H. (1977a) magnetic survey, Geometrics (1979b); High Life Helicopters and Geodata International (1979); U.S. Geol. Survey (1979g)

Malpais area, U.S. Geol. Survey (1979g)

McCartys $7^{1/2}$ ' quadrangle, Maxwell, C. H. (1977d) Mount Taylor $7^{1/2}$ ' quadrangle, Lipman, Pallister, and Sargent (1979)

road logs, Saucier (1979)

Saint Johns 2° quadrangle, DeCicco and Patterson (1979a); Maassen and others (1980); Sharp and others (1978) Socorro 2° quadrangle, DeCicco, Patterson, and Lutz (1979); High Life Helicopters and Geodata International (1979)

Cimarron Range, Goodknight (1976)

Ciniza Lake, Ash (1978a-f), Ash, Dean, and others (1978); Dean (1978); Stone, J. F. (1978); Tasch (1978); Weber, D. J., and Lawler (1978)

City of Rocks State Park, Weber, R. H. (1980a) clastic plugs, Reynolds, D. M. (1979); Reynolds, D. M., and Gries (1980)

clay, Austin, G. S., and Leninger (1976); Bohor and Pillmore (1976); Brookins (1980e); Frye and others (1978);

Gonzales, S., and Johnson (1980); Mukhopadhyay and Brookins (1976a); Russell, J. A. (1979)

Cliff House Sandstone, see Mesaverde Group Clovis Formation, Agenbroad (1978); Saunders (1978) coal

ash, Dreesen and others (1978); Shantz (1977b)

Bisti coal field, U.S. Bureau of Reclamation (1976e) Black Mesa, U.S. Geol. Survey (1978)

Catron County, Frost and others (1980)

Chaco Canyon, Mytton (1979)

Colfax County, Davis, H. (1978); Gentry and Abel (1978)

Delaware Basin, Hills (1979)

environmental effects, Cook, F. (1979); Kelly, W. (1979) Four Corners Power Plant, Cannon, H. L., and Swanson (1979); Environmental Science and Technology (1977); Miller, S. (1976); U.S. Bureau of Reclamation (1976c, d); Wangen and Wienke (1978)

Fruitland Formation, Bieri (1977); Fassett and Hinds (1977); Miyamoto and others (1977); Mytton (1979); Schneider,

Hildenbrand and Affolter (1979) gasification, American Geophysical Union (1977b); Buder (1978); Lent (1980a, b); Meissner (1977); Milios (1976); Stalkup (1978); Tilton (1976); Weiber and Sikri (1978) general, Anderson, O. J. (1978a); Anderson, O. J., Hatton, and Kottlowski (1977); Austin, L. A., and others (1977); Beaumont and others (1976); Bohor (1977); Freeman and Danilchik (1979); Frost (1979); Hodgson (1978); Kottlowski, Beaumont, and Shomaker (1976, 1977); Kottlowski, Tabet, and Frost (1980); Lockwood (1978); Martinez, L. B. (1980); Pelley (1978); Shantz (1977b, c, 1978); Tabet (1976b); Tabet and Frost (1978); Tabet, Frost, and Kottlowski; (1977); U.S. Bureau of Land Management (1976); U.S. Congress (1980); Vaninetti (1979)

ground water, Shomaker and Stone (1976) liquefaction, Murr and Wongwiwat (1976)

longwalls, Davis, H. (1978); Gentry and Abel (1978)

McKinley County, Cavaroc and Flores (1980); Dames and Moore (1979d, e, g-i, n, o, s); Wilcox and others (1980)

McKinley mine, Jackson, D. (1978)

Menefee Formation, O'Sullivan (1980); Siemers, C. T. (1978a); Whyte and Shomaker (1977a, b)

National Coal Resource Data System, Spence, B. J. (1980) Navajo mine, Karna (1977, 1979)

paleontology and mitigation plans, Kues, Froehlich, and others (1977); LeMone and others (1977, 1979)

Raton Basin, Amuedo and Bryson (1977); Bohor and Pillmore (1976); Flores (1980); Jurich (1980); Meissner (1977); Pillmore (1976d, e); Pillmore and Hatch (1976) Raton Formation, Roehler and Danilchik (1980)

reclamation, Aldon (1978a, b); Gosz and others (1978); Gould (1978); Gould and others (1977); Hinkley (1980); Hinkley and others (1980); Imhoff and others (1976); Inglis and others (1978); Miyamoto and others (1977); Tabet (1977a); Toy and Munson (1979)

Rio Arriba County, Dames and Moore (1979b, c, z, aa, ff-hh, jj-ll, uu, mmm, nnn)

Sandoval County, Dames and Moore (1979b-f, h, i, p-s, aa, aaa, bbb)

San Juan Basin, Beaumont and Shomaker (1977); Bierei (1977); Fassett and Hinds (1977); Flores (1980); Hinkley (1980); Hinkley and others (1980); Kues, Froehlich, and others (1977); Lent (1980a, b); Levinson (1979); Meissner (1977); O'Sullivan (1980); Schneider, Hildenbrand, and Affolter (1979); Shomaker and Stone (1976); Shomaker and Whyte (1977); Siemers, C. T. (1978a, b); Speer and others (1977); Styron and others (1979); Tabet (1977b); Tabet and Frost (1979a, b); Tabet, Frost, and Kottlowski (1979); U.S. Dept. Interior (1977); Whyte and Shomaker (1977a, b); Wilson, R. W., and Jentgen (1980)

San Juan County, Beach and Jentgen (1978); Dames and

mantle, Pedersen and Hermance (1979); Smith, D. L., Moore (1979a, b, d, e, j-o, t-y, bb-gg, ii-kk, mm-zz, and Levy (1976) Santa Fe County, Bachman (1976a); Beaumont (1979) Moenkopi Formation, Dickinson and Suczek (1979); Shive Sierra County, Tabet (1979b) and others (1979) Socorro County, Chapin, Osburn, and others (1979); Tamonocline folds, Davis, G. H. (1978) Morrison Formation, Dickinson and Suczek (1979); bet (1976a, 1979a) stripping technology, Marston (1976) Langford (1977); Young, R. G. (1977, 1978) tonsteins, Bohor (1977); Bohor and Pillmore (1976) Navajo volcanic field, Ehrenberg (1978, 1979); Ehrenberg and Griffin (1979); Roden (1979) trace elements, Dreesen and others (1978); Wangen and Wienke (1978) Pennsylvanian, Blakey (1978, 1980) uranium, Styron and others (1979) Permian, Blakey (1978, 1979, 1980) York Canyon mine, Davis, H. (1978); Jackson, D. (1976); potassic volcanism, Roden and others (1979) Kaiser Steel Corporation (1976, 1980); Pillmore (1976e) river system development, Lovejov (1976c); Trevena (1977) Colfax County tectonics, Baars (1979d); Bird (1979); Blakey (1978); see also Raton Basin Dickinson and Suczek (1979); Livaccari (1979); Adams Lake basin, Pillmore (1976c) McGetchin, Burke, and others (1979); Silver, L. T., and Angel Fire, Water Resources Associates, Inc. (1977a) McGetchin (1978); Zoback (1979) Baldy Mountain area, Walters, K. A. (1979) topaz rhyolites, Burt, Bikun, and Christiansen (1980) Bartlett Lake basin, Pillmore (1976c) uranium, Ortiz, Ethridge, and Sunada (1980); Ortiz and Cieneguilla Creek basin, Smith and Colpitts (1980) others (1980); Smith, L. T. (1976) Cretaceous, Pillmore and Eicher (1976) uranium indicator plants, Massingill (1979b) Folsom site, Cordell, L. S. (1976) Colorado River basin geomorphology, Colton (1976) hydrology, Brown, S. G. (1976); Cooper and others (1978); Gold Creek, Pillmore and Eicher (1976) El-Ashry (1980) ground water, Summers (1977a) columbites, Hlava (1979) guidebook, Ewing, R. C., and Kues (1976) Concha Limestone, see Naco Group Holocene natural history, Martin (1976) copper hydrogeology, Burroughs and McFadden (1976); Water bacterial leaching, Brierley (1979) Resources Associates, Inc. (1977a) general, Tourtelot and Vine (1976) land classification map, DeCicco, Patterson, and Lutz Grant County, Ahmad and Rose (1980); Alminas, Watts, (1978d, 1980) and others (1978b); Brierley (1979); Feis (1978); Jacobs, magnetic survey, Geometrics (1979a) D. C., and Parry (1979); Loucks and Newell (1978); radioactive-waste disposal, Herkenhoff and Associates and Reynolds, T. J., and Beane (1979) Summers and Associates (1977) Laramide orogeny, Allan and Swan (1978); Nielson, R. Raton 2° quadrangle, DeCicco, Patterson, and Lutz (1978d, L. (1978); Zantop (1980) 1980); Geometrics (1979a); Morgan, T. L., and Broxton porphyry, Allan and Swan (1978); Beane (1980); Beane and others (1980); Drewes (1978); Feis (1978); Jacobs, Raton volcanic field, Phelps, Blanchard, and others (1979); D. C., and Parry (1979); Mitcham (1978); Nash (1976); Phelps, Blanchard, and Stormer (1980); Stormer (1978) Nielson, R. L. (1978); Reynolds, T. J., and Beane (1979) Rio Arriba County, Timmer (1976) road logs, Lessard (1976); Pillmore (1976a, b, 1980a, b) stratigraphy, MacLachlan (1976) Sandoval County, Timmer (1976) Vermejo Park, Ewing, R. C., and Kues (1976); Laurie sandstone deposits, LaPoint (1976, 1977, 1979) (1976, 1980)Santa Fe County, Akright (1979); Harshbarger, J. W., and York Canyon mine, Davis, H. (1978); Jackson, D. (1976); Associates (1976) Sierra County, Alminas, Watts, and others (1978b) Kaiser Steel Corporation (1976, 1980); Pillmore (1976e) Colina Limestone, see Naco Group solution mining, Smith, R. W. (1979) Colorado Group tectonic setting, Drewes (1978) Bridge Creek Member, Hattin (1979) Cretaceous Carlile Shale, Hook and Cobban (1980b); Pillmore and ammonites, Cobban and Hook (1979, 1980) Eicher (1976) biostratigraphy, Kauffman, E. G. (1977) Graneros Shale, Pillmore and Eicher (1976) Black Mesa Basin, Peterson, F., and Kirk (1977) Greenhorn Limestone, Hattin (1979); Pillmore and Eicher Colorado Plateau correlation, Peterson, F., and Kirk (1977) Henry Basin, Peterson, F., and Kirk (1977) Juana Lopez Member, Hook and Cobban (1980b) Kaiparowits Basin, Peterson, F., and Kirk (1977) Niobrara Formation, Pillmore and Eicher (1976) La Ventana delta, Fuchs-Parker (1977) Colorado Plateau Raton Basin, Ash and Tidwell (1976); Fassett (1976) Cenozoic igneous, Moore, R. B. (1978) reptiles and amphibians, Armstrong-Ziegler (1978, 1980) Chinle Formation, Young, R. G. (1977, 1978) San Juan Basin, Brookins (1977a); Butler, R. F., Lindsay, Jacobs, and Johnson (1976, 1977); Butler, R. F., Lind-

Cretaceous correlation, Peterson, F., and Kirk (1977) crustal structure, Keller, G. R., and Braile (1979); Keller, G. R., Sinno, and others (1979); Silver, L. T., and McGetchin (1978)

Green Knobs diatreme, Smith, D. L., and Levy (1976) ground water, Ortiz and others (1980)

guidebook, Rigby (1977)

heat flow, Reiter, M. A., Mansure, and Shearer (1979b); Reiter, M. A., and Shearer (1979, 1980)

hydrology, Kondrat'yeva and Gorshkov (1979) kimberlites and hot spots, Crough and others (1980) magnetic variations, Mayhew (1979); Wasilewski and Padovani (1980)

magnetotelluric survey, Pedersen and others (1979); Pedersen and Hermance (1979); Wannamaker (1980)

stratigraphy, Kirk (1979) Cretaceous-Tertiary boundary, Kent, D. V. (1977) Crevasse Canyon Formation, see Mesaverde Group Crosby Mountains, Bornhorst (1976)

(1977b); Peterson, F., and Kirk (1977)

Santa Fe County, Bachman (1976a)

say, and Johnson (1979); Fassett (1976); Molenaar

crust, Ander (1980); Brown, L. D., Kaufman, and others (1979); Brown, L. D., Kaufman, and Oliver (1977); Condie and Brookins (1980); Jurdy (1979); Jurdy and Brocher (1980); Keller, G. R., and Braile (1979); Keller, G. R., Braile, and Schlue (1979); Keller, G. R., and Lowrey (1976); Long, G. H., and others (1977); McCullar (1977); Murdock and Jaksha (1980); Oliver, J. E. (1978); Oliver,

J. E., and Kaufman (1976); Oliver, J. E., and others (1976); Olsen, K. H., Keller, and Stewart (1979); Olsen, K. H., Keller, Stewart, and others (1977); Olsen, K. H., and Stewart (1979); Padovani (1977); Padovani and Carter (1977, 1978a, b); Rinehart, E. J. (1979a, b); Rinehart, E. J., and Sanford (1980); Rinehart, E. J., and others (1979); Spence, W., Gross, and Jaksha (1979); Spence, W., and Jaksha (1978); Toppozada and Sanford (1976); Ward, R. M. (1980); Warren, R. G. (1978, 1979); Warren, R. G., and others (1978); Wasilewski and Padovani (1980); Woodward (1977) crystallography

nepheline, Dallase and Thomas (1978)

Cuba Mesa Member, see San Jose Formation

Cuchillo Mountain laccolith, McMillan (1979); McMillan and Jahns (1979)

Curry County

Blackwater Draw, Agenbroad (1978); Saunders (1978) Clovis 2° quadrangle, DeCicco and Patterson (1980c); Texas Bureau of Economic Geology (1978); U.S. Geol. Survey (1980e)

ground water, Hudson, J. D. (1976-77b, 1979c) land classification map, DeCicco and Patterson (1980c); U.S. Geol. Survey (1980e)

Cutler Formation, Fracasso (1980)

Dakota Sandstone

brachiopods, Hook and Cobban (1977)

clay, Russell, J. A. (1979)

Colfax County, Pillmore and Eicher (1976)

general, Asquith and Gilbert (1976); Bejnar, C. R., and Lessard (1976); Gilbert and Asquith (1976); Levinson

geochronology, Brookins, Della Valle, and Register (1980); Ludwig and others (1977)

Grants uranium district, Della Valle and Brookins (1980b); Pierson and Green (1977, 1980)

mollusks, Cobban (1977a, b)

petroleum and natural gas, Berg (1979a); Dugan (1977) San Juan Basin, Noon (1980); Owen and Siemers (1977); Owen, Walters, Depetro, and Turmelle (1978); Owen, Walters, Kostura, and Grant (1976)

Santa Fe County, Bachman (1976a)

Twowells Sandstone Tongue, Hook and Cobban (1977) Zuni Basin, Hook, Cobban, and Landis (1980)

Dalton Sandstone Member, see Crevasse Canyon Formation

Datil-Mogollon volcanic province, see Mogollon-Datil volcanic field

Datil Mountains, Harrison (1980)

D-Cross Tongue, see Mancos Shale

De Baca County

Clovis 2° quadrangle, DeCicco and Patterson (1980c); Texas Bureau of Economic Geology (1978); U.S. Geol. Survey (1980e)

Fort Sumner 2° quadrangle, DeCicco and Patterson (1980g) land classification map, DeCicco and Patterson (1980c, g); U.S. Geol. Survey (1980e)

Delaware Basin

Bell Canyon Formation, Berg (1978); Berg and Ahr (1978); Ormiston and Babcock (1979); Payne (1976, 1979); Williamson, C. R. (1978, 1979a, b, 1980a, b)

Castile Formation, Anderson, R. Y., and Powers (1978); Dean (1980); Dean and Anderson (1978a, b)

crustal structure, Keller, G. R., Hills, and Djeddi (1980b) evaporites, Anderson, R. Y., Kietzke, and Rhodes (1978); Anderson, R. Y., and Kirkland (1979, 1980); Anderson, R. Y., and Powers (1978); Barrows (1980); Bodenlos (1978); Bodine (1978); Cheeseman (1978); Lambert, S. J. (1980); Mercer (1979); Mercer and Hiss (1978); Powers, D. W. (1980); Scroggin (1978); Vine (1976)

general, Austin, G. S. (1978); Cheeseman (1978); Hills

geomorphology, Widdicombe (1979) ground water, Lambert, S. J. (1978, 1980) igneous, Calzia and Hiss (1978)

Lamar Limestone, Babcock, L. C. (1977)

petroleum and natural gas, Berg (1978); Cheeseman (1978); Hills (1979); Jacka (1979); Orr and others (1979)

radiolarians, Cornell and Simpson (1980)

Salado Formation, Anderson, R. Y., and Powers (1978); Dean and Anderson (1978a, b)

sulfur, Smith, A. R. (1978a, 1980)

tectonics, Shurbet and Cebull (1978)

Delaware Mountain Group

Bell Canyon Formation, Berg (1978); Berg and Ahr (1978); Hiss (1980); Jacka (1979); Ormiston and Babcock (1979); Payne (1976, 1979); Weinmeister (1978); Williamson, C. R. (1978, 1979a, b, 1980a, b)

Brushy Canyon Formation, Hiss (1980)

Cherry Canyon Formation, Hiss (1980); Jacka (1979)

general, Sullivan, N. M. (1979)

hydrology, Anderson, R. Y., and Kirkland (1979, 1980) Lamar Limestone Member, Babcock, L. C. (1977); Tyrrell and others (1978)

petroleum and natural gas, Berg (1979b); Cromwell (1979); Jacka (1979)

Del Norte formation, Strain (1976)

Devonian

Piankasha sequence, Agurkis (1977)

Dewey Lake Formation, Peterson, D. N.

Diablo Plateau, Brown, L. D., Reilinger, and Hagstrum (1978); Reilinger, Brown, and Powers (1980)

Dixon member, see Tesuque Formation

Dockum Group

Chinle Formation, Ash (1976); Helsey (1977); Kurtz (1978a, b); Kurtz and Anderson (1980); O'Sullivan (1977) general, McGowen (1979); McGowen and others (1977); Young, R. G. (1977, 1978)

Santa Rosa Sandstone, Brimhall (1978); Budding (1980); LaPoint and Christiansen (1977); Lupe (1977)

Doña Ana cauldron, Seager (1978a)

Doña Ana County

Bishop Cap hills, Baghdad (1976); Van Devender and Everitt (1977)

Cerro de Cristo Rey, Strain (1976)

Corralitos Ranch 15' quadrangle, Clemons (1976c, 1977) Doña Ana Mountains, DeSimpson (1976)

El Paso 2° quadrangle, DeCicco and Patterson (1980d) Fort Selden State Monument and Leasburg State Park, Bieberman (1979)

geothermal energy, Chaturvedi (1980a-c); Gunaji and others (1978); Gunaji, Thode, and others (1978); Lohse (1980); Lohse and others (1980a, b); Morgan, P., Swanberg, and Lohse (1980); Morgan, P., Swanberg, and others (1979)

gravity survey, Brown, L. F. (1977); Daggett and Brown

ground water, Hernandez (1978)

guidebook, Clemons, Christiansen, and James (1980)

Hueco Formation, DeSimpson (1976)

Hunt's Hole, Stuart (1979); Stuart and Brenner (1979) land classification map, Banaszyski and others (1979); DeCicco and Patterson (1980d, e)

Las Alturas anomaly, Hohmann and Jiracek (1979)

Las Cruces, Jackson, D. B. (1976); Thomas, J. H., and others (1978)

Las Cruces 2° quadrangle, DeCicco and Patterson (1980e) Mesilla Valley, Hernandez (1978); Uphoff (1978); Zohdy and others (1976)

Mesilla Valley fault zone, Lovejoy (1976d)

Organ Mountains, Stone, W. J. (1976c)

Potrillo Mountains, Berman, R. G., and Reid (1976); Bersch (1977); Hoffer (1976a, b); Jenkins, D. A. (1977) Radium Springs KGRA, Jiracek and Smith (1976); Quillin and Combs (1976)

Rincon, Seager, Morgan, and Hawley (1978) road logs, Clemons, Christiansen, and James (1980); Cle-

(1977a-c); Havenor (1977); Jons and Stanley (1976); mons and Seager (1978); Hawley, Lovejoy, and others Roswell Geological Society (1977) (1978); Hawley and Seager (1978); Seager (1978a) Robledo Mountains, DeSimpson (1976) potash, Aguilar and others (1976); Ellet (1978); John and San Diego Mountain, Seager and Morgan (1978a) others (1978); Jones, C. L. (1978); Weisner and others (1980)scoria, Cima (1978) seismology, Jackson, D. B. (1976); Thomas, J. H., and Power Grayburg field, Knauf (1977) road logs, Esteban and Pray (1977a-e); Pray and Sarg others (1978); Zohdy and others (1976) Shelter Cave, Thompson, R. S., and others (1980) (1977); Sarg (1977); Yurewicz (1977e) soil survey, Bulloch and Neher (1980) Rock Tank field, Jons and Stanley (1976) Rock Tank Morrow field, Stanley and Tipton (1977b) stratigraphy, Strain (1976) Sand Cave, Byrd and Kunath (1978) tectonics, Uphoff (1977, 1979) Tortugas Arroyo, Funderburg and Roybal (1977) Sand Dune (Atoka) field, Kimbro (1977a) Tortugas Mountain, Keller, G. R. (1979); King, W. E., Sand Dune (Cherry Canyon) field, Kimbro (1977b) seismology, Caravella and Sanford (1977); Sanford and and Kelly (1980) Tularosa 2° quadrangle, Banaszyski and others (1979) others (1978) Doña Ana Mountains, DeSimpson (1976); Seager, Kott-South Dagger Draw field, Murphy, R. E. (1977b) lowski, and Hawley (1976) Springs Upper Penn field, David, E. K. (1977c) Sugart Delaware field, Cress (1977) **Eddy County** Atoka Morrow west field, Beck, R. H. (1977) Washington Ranch Morrow field, Engwall (1977b) Wills-Weaver mine, Golder Associates (1980) Avalon Penn (Cisco-Canyon) field, Leonard, R. C. (1977a) Avalon Penn (Morrow) field, Leonard, R. C. (1977b) Winchester field, Anderson, Rod (1977b, c) Avalon Penn (Strawn) field, Leonard, R. C. (1977c) Yeso Hills, Smith, A. R. (1979) Brownfield 2° quadrangle, DeCicco and Patterson (1980a); El Paso Group, LeMone (1977) U.S. Geol. Survey (1980f) Embudo Granite, Register, M. E., and Brookins (1979) Emory cauldron, Seager (1978b) Burton Flat Morrow field, Stanley and Tipton (1977a) Cabin Lake Morrow and Strawn fields, Becker (1977a, energy resources see also coal, geothermal energy, and petroleum and nat-Carlsbad Caverns, Esteban and Pray (1977a-e); Folk (1977); ural gas general, Arnold (1977, 1978); Arnold and Anderson (1978); Folk and Assereto (1976); Kendall and Broughton (1977); McLean (1977); Van Cleave (1976) Arnold and Hill (1980a, b); Arnold, Foster, and others Carlsbad field, Anderson, Rod (1977a) (1976); Kottlowski and Thompson (1979, 1980) Carlsbad potash district, Aguilar and others (1976); Bodtectonics, Rona (1977) Tularosa Basin complex, Lansford and others (1976b, c); ine and Laskin (1979); Brookins (1980b, c); Ellet (1978); Reiter and others (1976); U.S. Dept. Energy (1979) McNaughton (1978); Olhoeft (1978); U.S. Geol. Survey (1979b, f); Wynne (1978) waterpower, Banaszyski and others (1979); DeCicco and Carlsbad 2° quadrangle, DeCicco and Patterson (1979c); Patterson (1979a-d, 1980a-h); DeCicco, Patterson, and U.S. Geol. Survey (1976a, 1980a) Lutz (1978a-d, 1979, 1980); DeCicco, Patterson, and Catclaw Draw Morrow field, Hanson (1977) Morgan (1980); DeCicco, Patterson, and Robinson (1980); Cemetery Morrow field, LeMay (1977a) DeCicco, Patterson, and Yamamoto (1980) Corral Canyon field, Ahlen (1977a) water requirements, Gertsch and others (1977); Hudson, Dry Cave, Harris, A. H. (1980); Harris, A. H., and Porter H. H. (1978); Melancon and others (1979); Milios (1976); (1980); Lindsley and Lindsley (1978); Magish and Har-Silver, R. M., and Comeau (1979); Stone, W. J. (1976b) ris (1976) Engle Basin, Brookins, Warren, and Kudo (1980); Warren, Eagle Creek field, Book (1977) R. G. (1978, 1979); Warren, R. G., and others (1978) Empire Abo field, Killough and Foster (1979) Entrada Sandstone, see San Rafael Group evaporites, Loehr (1979) environmental geology, Hawley (1980); Kaufman, E. L., Globe mine, Hlava (1979) and Siciliano (1980); Langhorst (1980) Golden Lane Strawn field, Gunter (1977) Escabrosa Group ground water, Rinehart, J. S. (1977) Keating Formation, Armstrong and Mamet (1978a) heat flow, Mansure and Reiter (1977) Española Basin Hobbs 2° quadrangle, DeCicco and Patterson (1979d); Cenozoic, Manley (1976c, 1978c, e); May (1980) Texas Bureau of Economic Geology (1976); U.S. Geol. geology, Kelley, V. C. (1978a); Manley (1977); May Survey (1980d) (1979)Indian Draw Delaware field, Cress (1977) geochronology, Baldridge and others (1980); Manley land classification map, DeCicco and Patterson (1979c, (1976a, b); Manley and Naeser (1977) d); U.S. Geol. Survey (1976a, 1980a, d, f) geomorphology, Kelley, V. C. (1979b) Loco Hills sand, Foster, R. W. (1976) gravity studies, Cordell, L. (1979a) Los Medaños, Caravella and Sanford (1977); Elliot (1976); Pajarito fault zone, Golombek (1980) Rio Grande rift, Bridwell (1978); Cordell, L. (1979a); Lambert, S. J., and Mercer (1977); Nowak (1978); Sanford and others (1978) Manley (1976c, 1978a-c, 1979a); Reilinger, Brown, and Malaga Bend salinity alleviation, Havens and Wilkins others (1979); Reilinger and York (1979) stratigraphy, Ingersoll (1979a); Manley (1978a, c, 1979a, (1979); Kunkler (1980) b); May (1979); Steinpress (1980) McKittrick Hill caves, Byrd and Kunath (1978); Fieseler and Kunath (1978a, b); Harris, A. H. (1978); Kunath tectonics, Woodward and Ingersoll (1979) (1978a, b); Lindsley and Lindsley (1978); Smith, A. R. volcanics, Manley (1976a, b); Manley and Naeser (1977) (1978b)Espinaso Formation, Baldridge and others (1980) mollusks, Metcalf (1980) **Estancia Valley** North Dagger Draw field, Murphy, R. E. (1977a) foraminifera, Bachhuber and McClellan (1976, 1977) Paduca Morrow field, Henry (1977b) uranium, Brookins and Olsen (1977); Olsen, C. E. (1977) Paduca Wolfcamp field, Henry (1977c) Pennsylvanian, Gunter (1975); Hurley, T. J. (1980) argon gas permeability, Sutherland and Cave (1980)

Cenozoic, Bachman (1976c)

petroleum and natural gas, Ahlen (1977a); Anderson, Rod

Delaware Basin, Anderson, R. Y., Kietzke, and Rhodes (1978); Anderson, R. Y., and Kirkland (1979, 1980); Anderson, R. Y., and Powers (1978); Barrows (1980); Bodenlos (1978); Bodine (1978); Lambert, S. J. (1980); Mercer (1979); Mercer and Hiss (1978); Powers, D. W. (1980); Schmoker (1980); Scroggin (1978); Vine (1976) deposition, Shaw, A. B. (1977)

dissolution history, Bachman (1976c); Bachman and Izett (1979a, b); Johnson, K. S. (1980); Lambert, S. J. (1980); Szabo and Gottschall (1980)

electrical properties, Olhoeft (1978)

geochronology, Brookins, Register, and Krueger (1980); Register, J. K., and Brookins (1980)

Permian Basin, Johnson, K. S. (1980) Seven Rivers Formation, Sarg (1976a, b)

volcanic intrusion, Loehr (1979)

Exeter Sandstone, Savela (1977)

feldspar, Grew (1979)

Florida Mountains, Brookins (1978a, 1980a, g); Brookins, Rautman, and Corbitt (1978); Loring and Armstrong (1980) Florida Mountains Formation, Hook and Flower (1976, 1977)

fluorine, Burt and Sheridan (1980); Correa (1980); Kottlowski and Steensma (1979); McAnulty (1978); Van Alstine (1976)

Folsom site, Cordell, L. S. (1976)

Fort Bliss Military Reservation, Foster, R. W. (1978b)

Fort Hancock Formation, see Santa Fe Group

Fort Selden State Monument, Bieberman (1979)

Four Corners

coal, Stalkup (1978)

Morgan Lake, Environmental Science and Technology (1977)

petroleum and natural gas, Baars (1979a, 1980); Crowley, C. J. (1977, 1978); Fassett and others (1978); Fassett, Thomaidis, and Matheny (1978); Matheny, M. L. (1978a); Matheny, M. L., and Talley (1978); Reese, D. L. (1976) pollution, Environmental Science and Technology (1977) power plant, Cannon, H. L., and Swanson (1979); Environmental Science and Technology (1977); Miller, S. (1976); U.S. Bureau Reclamation (1976c, d); Wangen and Wienke (1978)

Franklin Mountains, Barrie (1976b); Chaiffetz (1977); Hair (1976); LeMone and Lovejoy (1976); Lovejoy (1976a); Lovejoy and Seager (1978); Nodeland and Cornell (1976); Simpson, R. D., and LeMone (1980)

Fruitland Formation

coal, Bierei (1977); Fassett and Hinds (1977); Flores (1980); Miyamoto and others (1977); Schneider, Hildenbrand, and Affolter (1979); Whyte and Shomaker (1977b) mine reclamation, Gould (1978); Gould and others (1977) paleontology, Rigby and Wolberg (1980); Tidwell, Bunderson, and Parker (1980); Wolberg (1980a, c); Wolberg and LeMone (1980); Wolberg and Rigby (1980) petrified palm bases, Tidwell, Bunderson, and Parker (1980) petroleum and natural gas, Fassett and Hinds (1977) stratigraphy, Butler, R. F., Lindsay, Jacobs, and Johnson (1976, 1977); Butler, R. F., Lindsay, and Johnson (1979);

Erpenbeck and Flores (1979) **Galisteo Basin**, Gorham, T. W., and Ingersoll (1979); Lisenbee (1976a, b); Warren, A. H., and Weber (1979)

Galisteo Formation, Gorham, T. W. (1979); Gorham, T. W., and Ingersoll (1979); Lucas (1980); Lucas and Kues (1979); Moore, J. C. (1979)

Gallinas Mountains, DeMark (1980)

Gallinas River, Schufle, Baca, and others (1976); Schufle, Mega, and Beckhart (1979)

Gallup Sandstone, see Mesaverde Group

garnet, Bettis (1977)

Gasbuggy project, Luetkehans (1976); Toppozada and Sanford (1976)

Gatuna Formation, Kelley, V. C. (1980)

geochemistry

Albuquerque Basin andesites, Kasten, J. A. (1977)

Animas Valley KGRA, Dellechaie (1977)

atmospheric lead, Nozaki, DeMaster, Benninger, and others (1977); Nozaki, DeMaster, Lewis, and Turekian (1978) Bandelier Tuff, Rogers, M. A., and Burton (1980); Sommers (1977, 1978)

bat guano, Des Marais and others (1980)

Battleship Rock Welded Tuff, McCormick (1980); McCormick and Smyth (1980)

biotite, Jacobs, D. C. (1976); Jacobs and Parry (1979) Carrizozo basalt field, Faris (1980); Faris and Renault (1980)

Chuska Sandstone, Trevena and Nash (1978a)

Ciniza Lake, Dean (1978)

Clayton volcanic field, Phelps, Blanchard, and others (1979); Phelps, Blanchard, and Stormer (1980)

coal fly ash, Dreesen and others (1978)

coal overburden, Hinkley (1980); Hinkley and others (1980) Delaware Basin, Lambert, S. J. (1978); Mercer (1979); Mercer and Hiss (1978)

Embudo Granite, Register, M. E., and Brookins (1979) Engle Basin, Warren, R. G. (1978, 1979); Warren, R. G., and others (1978)

Florida Mountains, Brookins, Rautman, and Corbitt (1978) Four Corners Power Plant, Wangen and Wienke (1978)

general, Mendes and Van Trump (1979) Grants uranium district, Brookins (1980e); Brookins, Riese and Lee (1977); Della Valle and Brookins (1979, 1980a); Lee, M. J. (1976a, b); Leventhal (1979, 1980); Leventhal and Threlkeld (1978); Riese, W. C., Brookins, and Della Valle (1980); Riese, W. C., Brookins, and

Lee (1978); Riese, W. C., Lee, and Brookins (1977) Harding pegmatite, Register, M. E. (1979); Register, M. E., and Brookins (1978); Register, M. E., Brookins, and Della Valle (1978)

hot dry rock program, Charles (1978); Charles and Herrick (1976); Laughlin and Eddy (1976)

KCM No. 1 Forest Federal well, Cernock (1977b); Cernock and Bayliss (1977)

Kilbourne Hole, Basu (1978); Hart, S. R., and others (1980); James and others (1980a, b); Richardson, S. H., and others (1980); Saito, Basu, and others (1977); Saito, Menzies, and others (1978)

Lucero uplift, Fisher, R. A. (1979)

Madera Formation, Mukhopadhyay and Brookins (1976b) magmatothermal ore deposits, Doe (1979)

Mancos Shale, Louderbough and Potter (1978)

Mississippian limestones, Meyers and Lohmann (1980) Mogollon-Datil volcanic field, Bornhorst (1980); Lindley (1979); Lindley and others (1980); Ratte and Grothro (1979); Stinnett (1980); Stinnett and Stueber (1976)

Morrison Formation, Lee, M. J. (1976b)

Mount Taylor volcanic field, Ridley (1979); Riese, W. C., and Brookins (1976)

muscovite, Gresens and Stensrud (1977)

Navajo volcanic field, Roden (1978)

nepheline, Dollase and Thomas (1978)

obsidians, Jambon and Shelby (1980) Palisades sill, Cannon, R. P. (1977); Cannon, R. P., and

Ragland (1977) pediments, Pillmore and Scott (1976)

petroleum and natural gas, Ross, L. M., and Harwood (1979)

Precambrian, Condie (1978); Condie and Budding (1979); Gresens (1976); Gresens and Stensrud (1977)

Raton coal field, Pillmore and Hatch (1976)

Raton volcanic field, Phelps, Blanchard, and others (1979); Phelps, Blanchard, and Stormer (1980)

Red Cloud district, Modreski (1979)

Red Mountain Dacite, David, W. P., and others (1980) Riley maar, Saito, Menzies, and others (1978)

Swanberg (1979); Zimmerman, C. J. (1979); Zimmerman, C. J., and Kudo (1978, 1979b) Roswell Underground Water Basin, LeFebre (1976, 1977); Mercado (1977) sandstone copper deposits, LaPoint (1979) San Juan Basin, Brookins (1977d, 1978d); Ross, L. M., and Harwood (1979) Servilleta basalts, Crossey (1979) seston, Nuhfer (1979) Smith Lake mining district, Place and others (1980) Taos Plateau volcanic field, Dungan and others (1978): Pronold (1979) Tewa Group, Prigmore (1978) topaz rhyolites, Christiansen, E. H., and others (1980) trace elements, Bornhorst (1980); Brookins and Della Valle (1979); Brookins, Della Valle, and Balagna (1979); Brookins, Della Valle, and Lee (1978b); Brookins, Lee, and Riese (1977); Brookins and Rautman (1978); Brookins, Riese, and Lee (1977); David, W. P., and others (1980); Helmick and others (1976); Marple (1979); Marple and others (1978); Popp and Laquer (1980); Riese, W. C., Lee, and others (1979); Roden (1978); Rogers, M. A., and Burton (1980) trondhjemites, Barker, F., Arth, and others (1976); Barker, F., Friedman, and others (1976); Glickson (1979) tuffaceous sediments, Olander (1979) Tularosa Basin, Sakai and others (1976) uranium, general, Leach and Puchlik (1976); Lee, M. J. (1976a, b); Nichols, C. E., and others (1976); Osmond and Cowart (1980); Riese, W. C., Lee, and others (1979) Zuni Mountains, Brookins and Rautman (1978) geochronology amino acid, Miller, G. H., and Hare (1980); Miller, G. H., and others (1979) fission-track dating hot dry rock geothermal project, Naeser and Forbes (1976)Mogollon Plateau, Smith, E. I., and others (1976) Florida Mountains, Brookins (1980a) general, Marvin and Cole (1978); Marvin and Dobson (1979); Marvin, Naeser, and Mehnert (1978); Nichols, S. L. (1978); Weimer and others (1979) Grants uranium district, Brookins (1980d) ground water, Barr and others (1979) hot dry rock project, Brookins, Forbes, and others (1977) Kilbourne Hole, Davis, G. L., and Grew (1978) Nacimiento Formation, Taylor, L. H. (1977) Precambrian, Bolton (1976); Robertson, J. M., Callender, and Brookins (1976) Rubio Peak Formation, Hedlund (1976) Sandia Mountains, Bolton (1976) southwestern New Mexico, Snyder, W. S., and others (1976)ion exchange Gallinas River sediments, Schufle, Baca, and others (1976); Schufle, Mega, and Beckhart (1979) Albuquerque-Belen Basin volcanics, Kudo and others Bandelier Tuff, Baldridge and others (1980) Bernalillo County, Machette (1978e) Catron County, Bikerman (1976) Cerro Toledo Rhyolite, Izett and others (1978) Colorado Plateau, Roden and others (1979) Eddy County, Brookins (1980c) Embudo Granite, Register, M. E., and Brookins (1979) Española Basin, Baldridge and others (1980); Manley Espinoso Formation, Baldridge and others (1980)

Rio Grande rift, Menzies and Murthy (1980); Reid, J. B.

(1978); Reid, J. B., Bateman, and others (1977); Reid,

J. B., and Frey (1978); Reid, J. B., and Woods (1978b);

Jemez lineament, Laughlin, Brookins, Damon, and Shafiqullah (1979) Jemez Mountains, Izett and others (1978) Las Tablas-La Madera 71/2' quadrangles, Gresens (1976) Lea County, Brookins (1980b, c) Little Hatchet Mountains, Loring and Loring (1980a) Los Piños Formation, Baldridge and others (1980) Mount Taylor volcanic field, Lipman and Mehnert (1980) Peloncillo Mountains, Hoggatt and others (1977) Picuris Range, Gresens (1976) Pliocene basalts, Manley (1976a) polyhalite, Brookins, Register, and Krueger (1980) Precambrian, Gresens (1976) Rio Grande rift, Bachman and Mehnert (1978); Baldridge, Damon, and others (1980); Stearns (1979) southern New Mexico, Loring and Loring (1980b) lead systematics mineral deposits, Ewing, T. E. (1979) Rio Grande rift, Everson and Silver (1978) Rb-Sr Castile Formation, Brookins, Register, Register, and Lambert (1978) Embudo Granite, Register, M. E., and Brookins (1979) Harding pegmatite, Register, M. E. (1979) hot dry rock project, Brookins and Laughlin (1976a) Ladron Mountains, White, D. L. (1978a, b) Madera Formation, Mukhopadhyay and Brookins Magdalena Mountains, White, D. L. (1978a, b) Manzano Mountains, White, D. L. (1978a, b) Morrison Formation, Lee, M. J., and Brookins (1978, 1980); Ludwig (1980) Ojita pluton, White, D. L. (1978a, b) Precambrian igneous rocks, Brookins, Bolton, and Condie (1980); White, D. L. (1979) Rio Grande rift, Brookins (1977b); Williams, S., and Murthy (1978, 1979) Salado Formation, Brookins, Register, Register, and Lambert (1978); Register, J. K. (1979); Register, J. K., and Brookins (1980) San Juan Basin, Brookins, Della Valle, and Register San Pedro Mountains, Wobus and Hedge (1980) Sierra Oscura, White, D. L. (1978a, b) Taos Plateau volcanics, Williams, S., and Murthy (1978, 1979) Trans-Pecos magmatic province, Barker, D. S., Long, and others (1977) Tres Piedras Granite, Maxon (1976) Zuni Mountains, Brookins, Della Valle, and Lee (1977, Bernalillo County, Brookins, Kasten, and Kudo (1980) Catron County, Bikerman (1976) Engle Basin, Brookins, Warren, and Kudo (1980) Embudo Granite, Register, M. E., and Brookins (1979) hot dry rock project, Brookins and Laughlin (1976b, 1977); Grancarz (1978) Kilbourne Hole, Hart, S. R., and others (1979) lavas, Leeman (1979) Mount Taylor volcanic field, Brookins, Crumpler, and Elston (1977) Rio Arriba County, Brookins, Eppler, and Elston (1977) Sangre de Cristo Mountains, Graustein and Armstrong Servilleta Formation, Brookins, Eppler and Elston (1977) Taos County, Brookins, Eppler, and Elston (1977); Brookins and Zimmerman (1980)

Grants uranium district, Brookins, Lee, and Shafiqul-

lah (1977); Lee, M. J., Brookins, and and Shafigullah

hot dry rock project, Turner, D. L., and Forbes (1976)

Harding pegmatite, Register, M. E. (1979)

tephrochronology

Española Basin, Manley (1976b); Manley and Naeser (1977)

U-Pb isotopes and U series

Dakota Sandstone, Ludwig and others (1977)

Tres Piedras Granite, Maxon (1976)

zircon fission-track

Jemez Mountains, Izett and others (1978)

geologic hazards, Colton (1979); Wachter and Rutenbeck (1980)

geologic history

Española Basin, Manley (1976c)

faults, Machette (1978e)

general, Burchfiel (1978)

Pecos region, Bachhuber (1980)

Picuris Range, Nielsen, K. C., and Scott (1979)

Pyramid Mountains, Thorman and Drewes (1978a)

river system development, Lovejoy (1976c) Sangre de Cristo Mountains, O'Neill, and Mehnert (1980a,

b) Sangre de Cristo Mountains, O'Neill, and Mehnert (1980a

geomorphology

see also soil science

Bernalillo County, Lambert, P. W. (1978b)

Chaco Canyon, Love (1976, 1977, 1979, 1980); Ross,

J. R. (1978)

Colfax County, Pillmore (1976c)

Delaware Basin, Widdicombe (1979)

Doña Ana County, Bulloch and Neher (1980)

erosion, Aldon (1976); Contessa (1975); Cooley (1979a, b); Curtis, N. M., Jr. (1976); Robbie and Buchanan (1978); Wells, S. G., and White (1978); White, W. D., and Wells (1979)

Española Basin, Kelley, V. C. (1979b)

fossil preservation, Isaacson and Perry (1977)

Gallinas Gorge, Schufle (1979)

general, Gile (1977)

Mora County landslide, Lovelace (1976)

Rio Grande basin, Stearns (1979)

Rio Grande rift, Bachman and Mehnert (1978); Hawley (1978d, e)

San Juan Basin, Cooley (1979a, b); Gutierrez (1980a); Hewett (1977); Schultz (1980)

San Juan County, Love and Schultz (1980)

Santa Fe County, Leopold (1976); Malde and Scott (1977) southern High Plains, Walker (1977)

White Sands Missile Range, Moore, H. J. (1976)

geophysics

borehole gravity, Kosocki and others (1978); Schmoker (1980)

Bouguer gravity surveys, Aiken (1977, 1978); Aiken, Laughlin, and West (1977, 1978); Aiken and others (1978); Ander, Heinken, and others (1979); Ander and Huestis (1978); Barrie (1976a, b); Bath and others (1977); Birch (1980); Brown, L. F. (1977); Budding (1978); Chapin, Chamberlin, and others (1978b); Coney (1976a); Cordell, L. (1976a, d, 1978a, c, 1979a, b); Cordell, L., and Detmering-Beal (1978); Cordell, L., Keller, and Hildenbrand (1978); Daggett and Brown (1977); Dansereau and Wynn (1978); Decker and Smithson (1977); Dimitrijevich and others (1976); Drake (1979); Eaton, Peterson, and Webring (1978); Eaton, Peterson, Webring, and Ratte (1976); Healey (1976); Healey and others (1978); Hedlund (1979); Keller, G. R., and Covert (1977); Krohn (1976); Ramberg and others (1978); Sanguinetti and Loeber (1976); Schlue (1978); Western and Aiken (1977); Williams, L. M. (1979); Wynn and Dansereau (1978, 1979)

COCORP, Brocher (1978, 1979a, b, 1980); Brown, L. D., Allmendinger, and others (1980); Brown, L. D., Brewer, and others (1978); Brown, L. D., Chapin, and others (1980); Brown, L. D., Kaufman, and others (1979); Brown, L. D., Kaufman, and Oliver (1977); Brown, L. D., Krumhansl, Chapin, and others (1979); Brown, L.

D., Krumhansl, Cook, and Kaufman (1978); Brown, L. D., Krumhansl, Cook, and others (1978); Cape and others (1980); Chapin, Sanford, and Brown (1980); Jiracek, Ander, and Reddy (1978); Jurdy (1978, 1979); Jurdy and Brocher (1980); Kaufman, S., and Oliver (1977); Long, G. H., and others (1977); Oliver, J. E. (1978); Oliver, J. E., and Kaufman (1976); Oliver, J. E., and others (1976); Olsen, K. H., Keller, and Stewart (1979); Olsen, K. H., and Stewart (1979); Olsen, K. H., and Stewart (1979); Ottolini (1978); Sanford, Mott, and others (1977); Sanford and Oliver (1977); Schilt and others (1978); Ward, R. W., and Nation (1978) electromagnetic survey, Williston, McNeil, and Assoc., Inc. (1979)

gamma ray survey, Geometrics (1979a, b)

general, Ander (1980); Barrows (1980); Cordell, L. (1976c, 1978b, d, 1979); Djeddi (1979); Eaton (1979b); Elliot (1976); Hern (1979); Hern and Elliot (1978); Jiracek, Smith, and others (1977); Keller, G. R., Graham, and Roy (1978); Keller, G. R., Hills, and Djeddi (1980a, b); Kintzinger (1976); Preslar (1976); Sanford (1978a); Sanford, Mott, and others (1977); Smith, C. S. (1978); Thompson, D. T. (1980); Towle (1980b); Veldhuluis and Keller, (1980); Wynn and Hedlund (1979)

heat flow, Bridwell (1976, 1978); Bridwell and Baldridge (1976); Brookins (1978a); Burruss and Holister (1979); Chapin, Chamberlin, and others (1978b); Chapin, Sanford, and Brown (1980); Cook, F. A., and others (1978); Crough and others (1980); Decker and Smithson (1977); Edwards and others (1978); Huestis (1979); Lohse and others (1980); Mansure and Reiter (1977, 1979); Padovani and Carter (1978b); Reid, J. B. (1976); Reiter, M. A. (1976); Reiter, M. A., Edwards, Mansure, and Shearer (1978); Reiter, M. A., Edwards, Shearer, Fisher, and others (1976); Reiter, M. A., Edwards, Shearer, McGrath, and Mansure (1976); Reiter, M. A., Mansure, and Shearer (1979a, b); Reiter, M. A., and Shearer (1979, 1980); Reiter, M. A., Shearer, and Edwards (1978); Reiter, M. A., Simmons, and others (1976); Reiter, M. A., and Smith (1977); Reiter, M. A., Weidman, and others (1976); Sanford (1977a); Shearer and Reiter (1978); Smith, D. L., and Jones (1978a, b)

magnetic surveys, Ander, Goss, and others (1980); Ander, Laughlin, and others (1980); Bath (1976, 1977); Bath and others (1977); Chapin, Chamberlin, and others (1978b); Colvocoresses (1979); Cordell, L. (1976a, b, 1979c); Fischer, W. A., and Orr (1978); Geodata International (1976a-c, 1978, 1980a, b); Geometrics (1979a, b); Hedlund (1979); High Life Helicopters and Geodata International (1979); Hohmann and Jiracek (1979); Keller, G. R., and Covert (1977); Lopez, L. M. (1978); Maki-Lopez (1978); Mayhew (1979); Singh (1978); Texas In-

Lopez (1978); Mayhew (1979); Singh (1978); Texas Instruments (1978, 1979a, b); Towle (1978, 1979, 1980a); U.S. Geol. Survey (1976b-e, 1979d, g, 1980 h-m); Wasilewski and Padovani (1980); Wynn (1978)

magnetotelluric survey, Hermance (1979); Hermance and Pedersen (1980); Hoover and others (1978); Jiracek, Ander, and Holcombe (1979a, b); Jiracek, Ander, and Reddy (1978); Pederson (1980); Pedersen and others (1979); Pedersen and Hermance (1979); Wannamaker (1980)

petroleum evaluation, Barreto (1978)

lunar research, Moore, H. J. (1976)

radar probing, Dolphin and others (1978)

resistivity, Jiracek, Ander, and Holcombe (1979b); Jiracek and others (1976); Jiracek and Smith (1976); Shankland (1978); Smith, C. S. (1976, 1977); Smith, C. S., and others (1977); Zohdy and others (1976)

seismology, Aki (1980); Aki and others (1977); Anderson, J. G. (1978); Bache and others (1978); Brocher (1978, 1979a, b, 1980); Budding and Purtyman (1979); Caravella (1976); Caravella and Sanford (1977); Chapin, Chamberlin, and others (1978b); Davis, T. L., and

Stoughton (1979); Fehler (1979); Fender (1978); Fisher, J. A. (1977); Frishman (1979); Geotimes (1980); Guyn (1978); Herrman and others (1980); Herrman and Park (1979); Hoffman and Harding (1977); Jackson, D. B. (1976); Jaksha (1976); Jaksha and Locke (1978); Jaksha, Locke, and others (1977, 1978); Johnson, D. M., and Combs (1976); Johnston, J. A. (1978); Jones, B., and McMillan (1977); Jurdy (1978, 1979); Jurdy and Brocher (1980); Keller, G. R., Braile, and Schlue (1979); Keller, G. R., Sinno, and others (1979); King, K. W., and Hays (1977); Kintzinger, Reynolds, and others (1978); Kintzinger and West (1976); Long, G. H., and others (1977); McCullar (1977); Mott (1976); Murdock and Jaksha (1978, 1980); Murphy, J. R. (1977); North, R. G., and Frasier (1977); Northrop (1976); Oliver, J. E. (1978); Oliver, J. E., and Kaufman (1976); Oliver, J. E., and others (1976); Olsen, K. H., Cash, and Bridwell (1976); Orr and others (1979); Potter, R. M. (1976); Quillin and Combs (1976); Reinke (1978); Reinke and Herrin (1979); Rinehart, E. J. (1976, 1979a, b); Rinehart, E. J., and Sanford (1980); Rinehart, E. J., and others (1979); Rogers, A. M., and Malkiel (1979); Ryder and others (1980); Sanford (1976, 1977b, 1978b, 1980a, b); Sanford and Oliver (1977); Sanford, Olsen, and Jaksha (1979, 1980); Sanford and others (1976, 1978, 1980); Sanford, Rinehart, and others (1977); Sanford and Schlue (1979, 1980); Sanford, Toppozada, and others (1976); Sangree and Widmier (1978, 1979); Savage, J. C., and others (1979, 1980); Sengupta and Ward (1977); Shuleski (1976); Shuleski and others (1977); Singh (1978); Smart (1979); Smithson and McCullar (1977); Spence, W., Gross, and Jaksha (1979); Spence, W., and Jaksha (1978); Strauss (1977); Stump and Reinke (1980); Tang (1978); Thomas, J. H., and others (1978); Toppozada and Sanford (1976); von Seggern (1977); Ward, R. M. (1980); Ward, R. W. (1979); Ward, R. W., and Sengupta (1977); West, K. L. (1979): Yousef (1977)

spectral gamma logging, West and Laughlin (1976)

geothermal energy

Animas Basin and KGRA, Chaturvedi and Ramos-Arras (1979); Dellechaie (1977)

Basin and Range province, Keller, G. V., Grose, and Crewdson (1978)

Bernalillo County, Kauffman, D., and others (1980); Parker, M. D., and Jiracek (1980)

Bouguer gravity anomaly, Aiken and others (1978); Eaton, Peterson, Webring, and Ratte (1976)

desalinization, Swanberg and Rybarczyk (1979)

Doña Ana County, Chaturvedi (1980a-c); Gunaji and others (1978); Gunaji, Thode, and others (1978); Lohse (1980); Lohse and others (1980a, b)

exploration, Gerety (1980)

general, Chaturvedi (1980d); DiPippo (1978); Geonomics (1978a, b); Lansford, Chaturvedi, and others (1980); Mizell (1980a, b); Otte (1980); Patterson, E. D., and Renner (1976); Pratt and Simonson (1976); Reiter, M. A., and Stone (1976); Renner and others (1976); Salveson (1978); Silver, R. M., and Comeau (1979); Smith, J. L., and others (1980); Stone and Mizell (1977); Swanberg and others (1977); Ward, R. W. (1979)

Hidalgo County, Elston, Erb, and Deal (1979)

hot dry rock, Aamodt (1976, 1977); Aamodt, Aki, and others (1979); Aamodt, Baltz, and others (1978); Aamodt, Brown, and others (1978); Aki (1980); Aki and others (1977); Albright (1976, 1979); Albright and others (1978); American Geophysical Union (1977a); Ander, Goss, and others (1980); Atkinson, P. G. (1980); Balagna, Beddoe, and others (1978); Balagna, West, and others (1977); Barker, C. (1976); Bodvarsson and others (1980); Brookins, Forbes, and others (1977); Brookins and Laughlin (1976a, b, 1977); Brown, D. W. (1976); Brown, M. C., and others (1979); Burruss and Holister (1979); Charles, West, and others (1977); Cremer and

others (1980); Crowe and others (1978); Cummings and others (1979); Dennis, B. R., and Horton (1978); Dennis, B. R., Miles, and others (1978); Dennis, B. R., and Murphy (1978); Duffield and Tester (1978); Duffy (1978); Ehrenberg and Perkins (1977); Fehler (1977); Gancarz (1978); Gutschick and Rea (1978); Hageman (1978); Hatton (1977, 1978, 1980a, b); Helmick and others (1976); Hendron (1978); Holley and others (1978); Hsu (1979); Hsu and others (1978); Kaufman, E. L., and Siciliano (1979); Keizer and others (1979); Keller, G. V., Grose, and Pickett (1978); Kintzinger (1976); Kintzinger and others (1978); Kintzinger, Revnolds, and others (1978); Kintzinger and West (1976); Kolstad and McGetchin (1978); Kolstad, McGetchin, and Laughlin (1976); Lambert, S. J. (1979a-c); Laughlin and Eddy (1976); Laughlin and West (1976, 1977); Laughlin, West, and others (1977); Lawton and Horton (1979); Maurer and others (1978); Messer and others (1978); Mortensen (1978); Murphy, H. D. (1976, 1978a, b); Murphy, H. D., and others (1978, 1980); Murphy, H. D., and Tester (1979); Naeser and Forbes (1976); Newsom and others (1978); Otte (1980); Pearson and others (1980); Pettitt (1976, 1977, 1978, 1979); Pettitt and Tester (1978a, b); Pettitt and West (1978); Potter, J. M. (1978); Potter, J. M., and others (1976); Potter, R. M. (1978); Purtymun, Adams, and others (1977); Purtymun, Ferenbaugh, and others (1980); Purtymun and others (1976, 1980); Purtymun, Stoker, and others (1978); Rea, K. H. (1977); Riecker (1977); Sanval and others (1979); Schubert and others (1980); Sibbitt (1976); Sibbitt and others (1978, 1979); Simmons and Eddy (1976); Smith, M. C. (1975. 1976, 1978); Solomon and Kerrick (1976); Tester and Albright (1979); Tester and others (1979); Turner, D. L., and Forbes (1979); Turner, W. M., and Kues (1978); West, F. G., and Laughlin (1976); West, F. G., and Purtymun (1976); Zartman (1979)

hot springs, Bejnar, W., and Bejnar (1979); Mariner and others (1977); Summers (1976a, 1979)

Hueco Tanks, El Paso area, Taylor, Bruce, and others (1980)

Jemez Mountains volcanic complex, Hermance (1979) Jemez Springs, Goff and Kron (1980)

Kilbourne Hole, Hoover and others (1978)

Las Alturas anomaly, Morgan, P., Swanberg, and Lohse (1980); Morgan, P., Swanberg, and others (1979)

Lightning Dock KGRA, Jiracek and Smith (1976); Jiracek, Smith, and others (1977); Preslar (1976); Smith, C. S. (1978)

Los Alamos region, Goff and Sayer (1980)

Radium Springs KGRA, Jiracek and Smith (1976)

Rio Grande rift, Hardee and Luth (1980); Harder and others (1980); Huestis (1979); Kleeman and Savage (1977); Rona (1977); Swanberg (1979); Trainer and Lyford (1979)

San Juan Basin, Chaturvedi and Lory (1980); Gran (1978) Santa Fe National Forest, U.S. Dept. Agriculture (1976) Socorro County, Chapin, Chamberlin, and others (1978a, b); Chapin, Sanford, and others (1979); Reiter, M. A., and Smith (1977)

southwestern New Mexico, Eaton, Peterson, Webring and Ratte (1976); Smith, C. S. (1977); Smith, C. S., and others (1977); Swanberg (1976, 1978)

Valles caldera, Dondanville (1979); Goff (1980); Keller, G. V., Grose, and Crewdson (1978); Kolstad and McGetchin (1978); Lambert, S. J., and Epstein (1980); Langhorst (1980); Sherwood and Marquis (1980)

west-central New Mexico, Levitte and Gambill (1980) Zuni Mountains, Laughlin and West (1976)

Gila Cliff Dwellings, Clemons, Christiansen, and James (1980)

Gila River, Burkham (1976); Dobyns (1978)

Gila Wilderness study area, Krier (1980); Ratte and Gaskill (1975); Ratte, Gaskill, and others (1979) Glorieta Sandstone, see San Andres Formation Gnome project, Smart (1979) Goat Seep Dolomite, Crawford (1979) Goat Seep Limestone, Hiss (1976b, c. 1980) Gobbler Formation, see Magdalena Group gold, Eveleth (1979a); Hazen Research, Inc. (1979); Lindquist (1980); Springett (1980); Woodward, Snyder, and Husler (1978) Good Sight Mountains, Clemons (1978, 1979) Graneros Shale, see Colorado Group Grant County aluminum, Hall, R. B. (1978) Beartooth sandstone, Chafetz (1976) Black Hawk mining district, Von Bargen (1979) Brockman Hills, Corbitt and others (1977) Brockman 71/2' quadrangle, Thorman (1977) Buckhorn area tuffaceous sediments, Olander (1979) Burro Peak 71/2' quadrangle, Hedlund (1978i) C Bar Ranch 71/2' quadrangle, Hedlund (1978h) City of Rocks State Park, Weber, R. H. (1980a) Clifton 2° quadrangle, DeCicco, Patterson, and Yamamoto (1980); Sharp and others (1978) Coyote Peak 71/2' quadrangle, Thorman (1977) Douglas 2° quadrangle, DeCicco and Patterson (1980f); Sharp and others (1978) Dwyer 15' quadrangle, Watts, Hassemer, Nishi, and Siems (1978)Fierro, Yousefpour (1978) Fort Bayard 71/2' quadrangle, El-Hindi (1977) Gila fluorspar district, Ratte (1978b) Gila Primitive Area, Krier (1980) Gold Hill 71/2' quadrangle, Hedlund (1978d) gravity, Dansereau and Wynn (1978); Eaton, Peterson, and Webring, (1977); Eaton, Peterson, Webring, and Ratte (1976); Wynn and Dansereau (1978, 1979) guidebook, Clemons, Christiansen, and James (1980) Hanover-Fierro, Jacobs, D. C. (1976) Hat Top Mountain 71/2' quadrangle, Varnell (1976) Hillsboro 15' quadrangle, Alminas and Watts (1978); Alminas, Watts, and others (1978a-d); Dansereau and Wynn (1978); Hedlund (1977a, b, 1979); Watts and Alminas (1979); Watts, Alminas and Kraxberger (1978); Watts, Alminas, and others (1978a-c); Wynn (1978); Wynn and Dansereau (1978); Wynn and Hedlund (1979) Howell's Ridge cave, Van Devender and Worthington Hurley East 71/2' quadrangle, Hedlund (1978e) hydrogeology, Lavery and Trauger (1977) Juniper Hills, Turner, D. L. (1979) Klondike Hills, Corbitt and others (1978) land classification map, Banaszyski and others (1979); DeCicco and Patterson (1980e, f); DeCicco, Patterson, and Morgan (1980); DeCicco, Patterson, and Yamamoto Las Cruces 2° quadrangle, DeCicco and Patterson (1980e) magnetic survey, Lopez, L. M. (1978); Maki-Lopez (1978); U.S. Geol. Survey (1979d, 1980l); Wynn (1978) Mimbres Basin, McLean (1977) Ninetysix Ranch 71/2' quadrangle, Hedlund (1978c) North Star Mesa, Aldrich (1976) Pinos Altos mining district, El-Hindi (1977); McKnight and Fellows (1978) Pinos Altos Range, Brautigam and Norman (1980) Pipeline Draw, Lavery and Trauger (1977) Rabb Canyon pegmatite, Keefer (1976) Rabb Park rhyolite complex, O'Brient (1980) Reading Mountain 71/2' quadrangle, Finnell (1976b); Turner, D. L. (1979) Redrock NE 71/2' quadrangle, Hedlund (1980c) Redrock NW 71/2' quadrangle, Hedlund (1980b)

Redrock SE 71/2' quadrangle, Hedlund (1980a)

road logs, Clemons, Christiansen, and James (1980); Cle-

mons and Seager (1978); Elston (1978a); Ratte (1978a);

Ratte and Finnell (1978); Seager, Clemons, and Elston (1978)Saltys 71/2' quadrangle, Thorman and Drewes (1979b) San Lorenzo 15' quadrangle, Alminas and Watts (1978); Alminas, Watts, and others (1978a-d); Dansereau and Wynn (1978): Hedlund (1977a, b, 1979); Watts and Alminas (1979); Watts, Alminas, and Kraxberger (1978); Watts, Alminas, and others (1978a-c); Wynn (1978); Wynn and Dansereau (1978): Wynn and Hedlund (1979) Santa Rita copper mine, Ahmad and Rose (1980); Brierley (1979); Feis (1978); Jacobs, D. C. (1976); Jacobs, D. C., and Parry (1979); Loucks and Newell (1978); Reynolds, T. J., and Beane (1979) Santa Rita-Hanover axis, Aldrich (1978) Silver City, Watts, Hassemer, Siems, and Nishi (1978) Silver City 71/2' quadrangle, Cunningham, J. E. (1979) Silver City 2° quadrangle, DeCicco, Patterson, and Morgan (1980); Sharp and others (1978); U.S. Geol. Survey (1979d, 1980l); Watts and Hassemer (1980); Wynn and Dansereau (1979) Silver City Range, Brautigam (1979); Brautigam and Norman (1980); Chafetz (1976); Peterson, H. W. (1979); Peterson, H. W., and Norman (1980) Soldiers Farewell Hill 71/2' quadrangle, Hedlund (1978b) Summit Mountains, Powers, R. S. (1976) Sycamore Creek, Turner, D. L. (1979) Tertiary volcanics, Cunningham, J. E. (1979) topaz rhyolites, Bikun and others (1980) Tularosa 2° quadrangle, Banaszyski and others (1979); Geodata International (1978) Twin Sisters 71/2' quadrangle, Finnell (1976a) Tyrone 71/2' quadrangle, Hedlund (1978f) uranium, Sharp and others (1978) volcanic geology, general, Wahl (1980) Werney Hill 71/2' quadrangle, Hedlund (1978g) White Signal 71/2' quadrangle, Hedlund (1978j) Wind Mountain 71/2' quadrangle, Hedlund (1978a) Grants uranium district Bernabe Montaño uranium deposit, Kozusco and Saucier Crownpoint Sec. 29 deposit, Wentworth and others (1980) disconformities, Green (1979, 1980)

biogenic ore extraction, Brierley (1977, 1979) Church Rock deposit, Peterson, R. J. (1980) Crownpoint, Conine (1980)

exploration, Bivins and others (1980); Brookins, Riese, and Lee (1977); Chenoweth and Holen (1980); DeVoto and Mead (1979); DeVoto, Mead, Bergquist, and Martin (1977); DeVoto, Mead, Martin, and Bergquist (1980); Fitch (1980); Reimer and others (1979); Saucier (1977) general, Brookins (1976b, 1977c, 1978b, 1979a-d, 1980e); Brooks, Robert (1978); Chapman, Wood, and Griswold, Inc. (1977); Wright, R. J. (1980)

geochronology, Brookins (1980d, e); Brookins, Della Valle, and Register (1980); Brookins, Lee, and Shafiqullah (1977); Lee, M. J., and Brookins (1978, 1980); Lee, M. J., Brookins, and Shafiqullah (1977); Ludwig (1980); Ludwig and others (1977)

geophysics, Thompson, D. T. (1980)

ground water, Eadie and Kaufman (1977); Earth Environmental Consultants, Inc. (1976c); Environmental Protection Agency (1977); Ethridge, Ortiz, Granger, and others (1980); Guyton and Associates (1978); Kaufman, R. F., and others (1976, 1977); Landa (1980); Lyford and Frenzel (1979); Lyford, Frenzel, and Stone (1979, 1980); Science and Engineering Resources, Inc. (1976) guidebook, Rautman (1980)

Jackpile-Paguate deposit, Adams, S. S. (1977); Adams, S. S., and others (1978); Beck, R. G., and others (1980); Brierly (1979); Reynolds, J. F., and others (1978) L-Bar deposits, Jacobsen (1980)

Mariano Lake, Jenkins, J. T., Jr., and Cunningham (1979, 1980); Place and others (1980); Riese, A. C., and Popp (1980); Sachdev (1978, 1980); Thompson, D. T. (1980) Marquez deposit, Livingston (1980)

Morrison Formation, Brookins (1976a); Della Valle and Brookins (1979, 1980a); Langford (1977); Lee, M. J. (1976a); Lee, M. J., and Brookins (1978); Peterson, R. J. (1980); Rhett (1980); Saucier (1980); Turner–Peterson and others (1980)

Mount Taylor volcanic field, Riese, W. C. (1977, 1980); Riese, W. C., and Brookins (1976, 1977, 1978, 1979, 1980); Riese, W. C., Brookins, and Della Valle (1980) Nose Rock deposit, Rhett (1980)

ore deposits, general, Brookins (1976c, 1977d, 1978d, 1980f); Ethridge, Ortiz, Granger, and others (1980); Ethridge, Ortiz, Sunada, and Tyler (1980); Granger and others (1980); Huang (1979); Melvin (1976); Riese, W. C., Brookins, and Della Valle (1978); Riese, W. C., Brookins, and Lee (1978); Riese, W. C., Lee, and Brookins (1977)

organic chemistry, Leventhal (1979, 1980); Leventhal and Threlkeld (1978)

Poison Canyon mine, Tessendorf (1980)

pollution, Land (1980)

radon transport, Fleischer (1980); Fleischer, Hart, and Mogro-Campero (1980); Fleischer and Mogro-Campero (1979a, b)

reclamation, Reynolds, J. F., and others (1978)

remote sensing, Zech and Knepper (1979)

reserves, Guertin (1979)

Ruby Well no. 1 mine, Robertson, J. F. (1979)

sabkha environments. Rawson (1976, 1980)

Saint Anthony mine, Baird and Martin (1979); Baird, Martin, and Lowry (1980)

San Antonio Valley deposit, Moore, S. C., and Lavery (1980)

Smith Lake ore trend, Ristorcelli (1980a, b)

Todilto Limestone, Hines, S. A. (1976); Rawson (1976, 1980)

United Nuclear-Homestake Partners' mill, Science and Engineering, Inc. (1976, 1977)

Great Plains province, Hawley, Bachman, and Manley (1976); Keller, L. F., and others (1977)

Greenhorn Limestone, see Colorado Group

ground water

Ambrosia Lake uranium district, Kelly, T. E., Link, and Schipper (1979)

Artesia Group, Hiss (1980)

Bernalillo County, Chambers-Campbell-Isaacson-Chaplin, Inc. (1976); Hagerman (1976a); Hydrotechnics (1976); Summers (1976b)

bibliographies, Borton (1976, 1978, 1979b, 1980); Borton and Jones (1976, 1978)

Capitan aquifer, Hiss (1975, 1980)

coal mining, Shomaker and Stone (1976); U.S. Bureau of Reclamation (1976b)

Colfax County, Summers (1977a)

Colorado River, Brown, S. G. (1976); El-Ashry (1980) Curry County, Hudson, J. D. (1976–77b, 1979c)

Delaware Basin, Lambert, S. J. (1978); Mercer (1979); Mercer and Hiss (1978)

Delaware Mountain Group, Hiss (1980)

Dockum Group, McGowen and others (1977)

Doña Ana County, Hernandez (1978)

Eddy County, Rinehart, J. S. (1977)

Gallup Sandstone, McLean (1980)

general, Borton (1976, 1978); Borton and Jones (1976, 1978); Hudson, J. D. (1976a, b, 1978b); Stone, W. J., Mizell, and Hawley (1979); U.S. Geol. Survey (1977a); Wilkins and others (1980)

Grants uranium district, Eadie and Kaufman (1977); Environmental Protection Agency (1977); Ethridge, Ortiz, Granger, and others (1980); Guyton, W. F., and Associates (1978); Kaufman, R. F., and others (1976, 1977); Lyford and Frenzel (1979); Lyford, Frenzel and Stone

(1979, 1980); Science and Engineering Resources, Inc. (1976, 1977)

Great Plains, Keller, L. F., and others (1977)

Guadalupe County, Blair, J. (1976)

heat flow, Mansure and Reiter (1979)

Hidalgo County, Wilson, R. P., and White (1976)

High Plains aquifer, Banks (1980); Gutentag and Weeks (1980)

hot dry rock geothermal project, Pettitt (1976); Purtymun, Adams, and others (1977); Purtymun, Ferenbaugh, and others (1980); Purtymun and others (1976, 1980); Purtymun, Stoker, and others (1978)

hot springs, Bejnar, W., and Bejnar (1979); Mariner and others (1977); Summers (1976a, 1979)

Hueco Bolson, Meyer, W. R. (1976)

Lea County, Hudson, J. D. (1976-77a, 1979a,b)

Lincoln County, Summers, W. K. (1977b)

Los Alamos County, Apt and Lee (1976); Cushman and Purtymun (1976); Purtymun (1977a); Purtymun, Buchholz, and Hakonson (1977)

Manzano Mountains, Titus (1980)

McKinley County, Boyd (1976); Guyton, W. F., and Associates (1978); Hearne (1977); Hiss (1976a); Hiss and Marshall (1976); McLean (1980); Reed (1977)

mineral springs, Felmlee and Cadigan (1978)

Morrison Formation, Galloway, W. E. (1978, 1979) Navajo Indian Reservation, Stone, W. J., Brod, and Anderholm (1978); Stone, W. J., and Jackson (1980)

Ogallala Formation or aquifer, Banks (1980); Herkenhoff and Associates (1977); Reeves (1978); Sloggett (1977) Otero County, Ballance (1976); Galloway, S. E., and Nelson (1977)

recharge, Brown, R. F., and others (1976); Gross and others (1976)

Rio Arriba County, Hart, D. L., Jr., and Smith (1979a, b)

Rio Grande, Day (1978)

Rio Grande rift, Swanberg (1979)

Rio Grande valley, Wilson, C. A., White, and Roybal (1979b)

Roosevelt County, Hudson, J. D. (1976–77c, 1979d)
Roswell Underground Water Basin, Duffy and others (1978): Gross G. W. and others (1980): Le Febre (1976)

(1978); Gross, G. W., and others (1980); LeFebre (1976, 1977); Mercado (1977); Rabinowitz and others (1977ac); Welder (1977a, b)

San Andres Formation, Chavez (1976–77); Hiss (1980) Sandia Mountains, Titus (1980)

Sandoval County, Boyd (1976); Earth Environmental Consultants, Inc. (1977b)

San Juan Basin, Lyford (1979); Lyford and Frenzel (1979); Lyford, Frenzel and Stone (1979, 1980); Lyford and Stone (1978); Shomaker and Stone (1976); U.S. Bureau of Reclamation (1976b); U.S. Dept. Interior (1977)

San Miguel County, Bejnar, W., and Bejnar (1979) Santa Fe County, Black and Veatch (1976); Borton (1979b); Harshbarger, J. W., and Associates (1976); Summers (1976c); Wilson, L. (1976a, b); Wilson, L., and Jenkins (1979)

Sierra County, Greene and Halpenny (1976); Wilson, C. A., White, and Roybal (1979a)

Socorro County, Ecology Consultants, Inc. (1977)

soil science, Van de Pol and others (1977)

southern High Plains, Brown, R. F., and others (1976); Weeks (1978)

Taos County, Hagerman (1976b)

Torrance County, Hagerman (1976a)

tritium, Gross, G. W., and others (1976); Rabinowitz and others (1977a-c)

Tularosa Basin, MacMillian and others (1976); U.S. Dept. Energy (1979)

uranium, Hiss (1977); Townsend (1979)

Valencia County, Boyd (1976)

White Sands Missile Range, Kelley, T. E., and Hearne

(1976); Wilson, C. A., White, Roybal, and Gonzales (1978)

Guadalupe County

Fort Sumner 2° quadrangle, DeCicco and Patterson (1980g) land classification map, DeCicco and Patterson (1980b,

Los Esteros Dam, McDaniel and Decker (1979) magnetic survey, Geometrics (1979a)

Santa Fe 2° quadrangle, DeCicco and Patterson (1980b); Geometrics (1979a)

Santa Rosa Sandstone, Lupe (1977)

Santa Rosa tar sand, Budding (1980)

Guadalupe Mountains

see also Capitan Limestone or reef complex

Barrera fault, Hayes and Bachman (1979)

biostratigraphy, Toomey and Cys (1977a)

Goat Seep Dolomite, Crawford (1979)

Guadalupian, Pray and Esteban (1977) karst features, Queen (1980)

lizards, Rickart (1977)

Paleozoic facies, Scholle and Halley (1980)

Permian facies, Mazzullo and Cys (1977)

San Andres Formation, Squires (1976)

Seven Rivers Formation, Hurley, N. F. (1978, 1979) speleology, Davis, D. G. (1980); Rickart (1977)

Tansill Formation, Neese (1979a, b); Neese and Schwartz (1977)

Yates Formation, Neese (1979a, b); Neese and Schwartz (1977)

guidebook

Basin and Range province, Newman and Goode (1979) Colorado Plateau, Rigby (1977)

Cordillera, Hill, J. G. (1976)

Delaware Mountain Group, Sullivan, N. M. (1979)

fossils, Ratkevich and LaFon (1978)

Grants uranium district, Rautman (1980); Veal (1977)

Hidalgo County, Callender, Wilt, and Clemons (1978)

Rio Grande rift, Hawley (1978a); Olsen, K. H., and Chapin (1978); Riecker (1979)

Sacramento Mountains, Butler (1977)

San Juan Basin, Fassett (1977a)

Santa Fe country, Ingersoll (1979c); Ingersoll and Woodward (1979)

southeastern Arizona, Callender, Wilt, and Clemons (1978) southwestern New Mexico, Clemons, Christiansen, and James (1980)

Trans-Pecos region, Dickerson and Hoffer (1980) uranium, Veal (1977)

Vermejo Park, Ewing, R. C., and Kues (1976)

Hagan Basin, Gorham, T. W. (1979); Ingersoll (1979a, b); Moore, J. C. (1979); Sanguinetti and Loeber (1976); Warren, A. H., and Weber (1979)

Harding County

Dalhart 2° quadrangle, DeCicco, Patterson, and Robinson (1980); Morgan, T. L., and others (1980)

land classification map, DeCicco and Patterson (1980b, h); DeCicco, Patterson, and Robinson (1980); U.S. Geol. Survey (1980g)

magnetic survey, Geometrics (1979a)

Raton 2° quadrangle, DeCicco, Patterson, and Lutz (1978d, 1980); Geometrics (1979a); Morgan, T. L., and Broxton (1978)

Santa Fe 2° quadrangle, DeCicco and Patterson (1980b); Geometrics (1979a)

Tucumcari 2° quadrangle, DeCicco and Patterson (1980h); U.S. Geol. Survey (1980g)

Harding pegmatite, Brookins, Chakoumakos and others (1979); Chakoumakos (1978a, b); Cook, C. W. (1979); Ewing, R. C. (1979); Fenn and Jahns (1979); Hlava (1979); Jahns and Ewing (1976); Luth (1979); Nichols, J. (1980); Register, M. E. (1979); Register, M. E., and Brookins (1978); Register, M. E., Brookins, and Della Valle (1978); Suchomel (1976); Taggart (1976)

helium, Chemical Projects, Ltd. (1978); DeVoto and Mead (1979); DeVoto, Mead, Bergquist, and Martin (1977); DeVoto, Mead, Martin, and Bergquist (1977); Jambon and Shelby (1980); Reimer and others (1979); Rice and Reimer (1977)

Hell Canyon greenstone belt, Woodward, Parchman, and others (1979)

hematite, Lufkin (1976)

Henry Basin, Peterson, F., and Kirk (1977) Hidalgo County

Alamo Hueco Mountains, Reiter, D. E. (1980)

Animas Valley, Chaturvedi and Ramos-Arras (1979); Dellechaie (1977); Fleischhauer (1977a)

Apache no. 2 mining district, Peterson, S. L. (1977)

Brockman Hills, Corbitt and others (1977)

Concho Limestone, LeMone, Simpson, and Thompson (1978)

Cotton City 71/2' quadrangle, Drewes and Thorman (1980a)

Coyote Peak 71/2' quadrangle, Thorman (1977)

Dog Mountains, Reiter, D. E. (1980)

Douglas 2° quadrangle, DeCicco and Patterson (1980f); Sharp and others (1978)

Gary 7¹/₂' quadrangle, Thorman and Drewes (1978b) geothermal energy, Elston, Erb, and Deal (1979)

Gold Hill 71/2' quadrangle, Hedlund (1978d)

Granite Gap, Williams, S. A. (1978)

gravity studies, Wynn and Dansereau (1979)

ground water, Wilson, R. P., and White (1976) guidebook, Callender, Wilt, and Clemons (1978); Cle-

mons, Christiansen, and James (1980) Humble Oil and Refining Co. No. 1 State BA well, Cer-

nock (1977a) KCM No. 1 Cochise State A well, Cernock (1976)

KCM No. 1 Forest Federal well, Behnken (1977); Budding and Broadhead (1977a-c); Cernock (1977b); Cernock and Bayliss (1977); Erb and Elston (1977); Ewing, R. C., and Thompson (1977); Elston and Erb (1977); Thompson, S., III (1977a-c)

Lake Animas, Fleischhauer (1977b, 1978)

land classification map, DeCicco and Patterson (1980f); DeCicco, Patterson, and Morgan (1980)

Lightning Dock KGRA, Jiracek and Smith (1976); Jiracek, Smith, and others (1977); Preslar (1976); Smith, C. S. (1978)

Lordsburg 71/2' quadrangle, Thorman and Drewes (1978b) magnetic survey, Lopez, L. M. (1978); Maki-Lopez (1978) mineral resources, Elston, Erb, and Deal (1979) Ordovician, Hayes (1978)

petroleum and natural gas, Cernock (1976, 1977); Elston, Erb, and Deal (1979); Thompson, S., III (1977b, c)

Redrock SE 71/2' quadrangle, Hedlund (1980) road logs, Clemons, Christiansen, and James (1980); Keith and Wilt (1978); Keith, Wilt, and others (1978)

San Simon, Wilson, R. P., and White (1976) sedimentation, Ross, C. A. (1978)

Silver City 2° quadrangle, DeCicco, Patterson, and Morgan (1980); Sharp and others (1978); Wynn and Dansereau (1979)

Steins 71/2' quadrangle, Drewes and Thorman (1980b) structural geology, Drewes and Thorman (1978)

Tempskya-bearing rocks, Zeller (1976)

Tertiary cauldrons, Erb (1978)

uranium, Walton and others (1980)

Vanar 15' quadrangle, Drewes and Thorman (1980a, b) volcanic geology, Deal, Elston, and others (1978); Erb (1979); Wahl (1980)

Winkler anticline, Erb and Elston (1977); Hazen Research, Inc. (1979)

Holder Formation, Dunning (1978); Wilson, J. L. (1977b) Holocene

Colfax County, Martin (1976) Taos County, Martin (1976)

Horquilla Limestone, see Naco Group

Cull (1977)

Hueco Bolson, Meyer, W. R. (1976); Seager (1980); Uphoff Mesilla Valley, Pinzon Lizarraga (1978) Mimbres Basin, McLean (1977) Hueco Formation, De Simpson (1976); Kottlowski, Seager, Mora River valley, Faith Enterprises, Inc. (1977) and others (1977); LeMone and Simpson (1977); Simpson, Navajo Indian Reservation, Turney, W. F., and Associates R. D., and LeMone (1980) humate, Gosz and others (1978) precipitation, Chery and Kagan (1976) Hunt's Hole, Stuart (1979); Stuart and Brenner (1979) Rio Arriba County, Moss and others (1978) hydrogeology Rio Grande basin, U.S. Bureau of Reclamation (1977) Animas Basin and KGRA, Chaturvedi and Ramos-Arras San Juan Basin, Heil (1979); Melancon and others (1979); (1979)Stone, W. J. (1976b, 1979a-c); Stone, W. J., and Lyford Bandelier National Monument, Purtymun and Adams (1978); U.S. Dept. Interior (1977); Wright, A. F. (1978) San Juan County, Brown, D. R. (1976); Brown, D. R., Cibola County, Brod (1979) and Stone (1979) Colfax County, Burroughs and McFadden (1976); Water Santa Fe County, Consulting Professionals, Inc. (1977); Resources Associates, Inc. (1977a) Coonce and Assoc. (1977a-c); Herkenhoff and Assoc. Grant County, Lavery and Trauger (1977) (1976); White, C. S. (1978) Jemez Mountains, Trainer (1978) southern plains, Babcock, R. E., and others (1978) Lincoln County, Earth Environmental Consultants, Inc. Tesugue Pueblo, Balch and Clark (1978); Hearne (1980a, McKinley County, Brod (1979); Craigg (1980); Earth Torrance County, Hagerman (1976a) Tularosa Basin, Lansford and others (1976b, c); McLean Environmental Consultants, Inc. (1976c) Navajo Indian Reservation, Cooley and others, (1978) and Garza (1977) Pecos Valley, Spiegel (1976) uranium, City of Gallup (1977); Townsend (1979) Rio Arriba County, Anderholm (1979) water use, general, Sorenson (1977) Sandoval County, Anderholm (1979); Craigg (1980); Earth White Sands Missile Range, Cruz (1976, 1977, 1978, Environmental Consultants, Inc. (1977a); Purtymun, 1979, 1980); Scott, A. G. (1976) Peters, and Owens (1980) iron, Bickford (1980); Schnake (1977) San Juan Basin, Kelley, T. E. (1977); Stone, W. J., and Jackpile sandstone, see Morrison Formation Mizell (1978) Jarita Basalt Member, see Los Pinos Formation jasperoids, Iovenitti (1977); Iovenitti and Renault (1977) San Juan County, Brown, D. R. (1976); Brown, D. R., Jemez lineament, Ander, Laughlin, and others (1980); and Stone (1979) San Luis Basin, Burroughs and McFadden (1976) Baldridge (1979b); Laughlin, Brookins, and Damon (1976); Santa Fe County, Earth Environmental Consultants, Inc. Laughlin, Brookins, Damon, and Shafiqullah (1979); Niel-(1976a); Jenkins (1977); Veneklasen (1977) sen, K. C., and Scott (1980) Socorro County, Stone, W. J., and Foster (1977) Jemez Mountains Taos County, Burroughs and McFadden (1976) Bandelier Tuff, Boden (1980); Eichelberger and Koch Valencia County, Brod (1979) (1979); Heiken and others (1976); Sommer (1977, 1978) Waste Isolation Pilot Plant, Barr and Gonzalez (1980); Battleship Rock Welded Tuff, McCormick (1980); Mercer and Orr (1977, 1979) McCormick and Smyth (1980) Castor Pond, Adam and Mehringer (1980) hydrology Ambrosia Lake uranium district, Purtymun, Dreesen, and Cerro Toledo Rhyolite, Izett and others (1978) Wienke (1977) geochronology, Izett and others (1978) geothermal energy, Hermance (1979); Solomon and Kerasbestiform fiber concentrations, Oliver, T., and Murr rick (1976) Bernalillo County, American City and County (1977); heat flow, Reiter, M. A., Weidman, and others (1976) Hagerman (1976a); Hudson, J. D. (1978a, 1980); Wright, hydrogeology, Trainer (1978) A. F. (1978) hydrology, Water Resources Associates, Inc. (1977b) bibliography, Wright, A. F. (1978, 1979a, b, 1980) Rio Grande rift, Smith, R. L., and others (1978) chemical analysis, Burnside and Wenrich-Verbeek (1976) road log, Bailey and Smith (1978) coal gasification, Milios (1976) tectonics, Woodward and Ingersoll (1979) Tewa Group, Prigmore (1978) Colfax County, Geohydrology Associates, Inc. (1978) volcanism, Bailey and Smith (1978); Smith, R. L., and Colorado Plateau, Kondrat'yeva and Gorshkov (1979) Colorado River basin, Cooper and others (1978) others (1978) Jicarilla Apache Indian Reservation, Kunkler and Scott data networks, Moss and others (1978) desalinization, Swanberg and others (1977); Swanberg (1977)John Kerr Peak dome complex, Smith, E. I. (1976) and Rybarczyk (1979) Eddy County, Lambert, S. J., and Mercer (1977) Jones, Fayette A., Holts (1979a) Jornada del Muerto energy development, Gertsch and others (1977); Hudson, Lake Trinity, Neal (1976) H. H. (1978); Melancon and others (1979); Milios (1976); Silver, R. M., and Comeau (1979); Stone, W. J. (1976b) Juana Lopez Member, see Carlile Shale or Mancos Shale general, Soule and Wilkins (1979); Stone, W. J. (1976a); Jurassic U.S. Bureau of Reclamation (1976a); U.S. Bureau of general, Wright, R. P., and others (1977) San Juan Basin, Green and Pierson (1977) Reclamation and State of New Mexico (1976); U.S. Kaiparowits Basin, Peterson, F., and Kirk (1977) Geol. Survey (1976f-j, 1977b, e, 1979h); White, R. R., and Dein (1980) karst, Fischer, W. A., and others (1978, 1979) irrigation, Lansford and others (1976a); O'Connor and Keating Formation, see Escabrosa Group

Jemez Mountains, Water Resources Associates, Inc. (1977b)

Kelly Limestone, Iovenitti (1977)

Kilbourne Hole, Basu (1978); Brenner (1979); Cunningham, M. P. (1977); Davis, G. L., and Grew (1978); McKinley County, City of Gallup (1977)

Mescalero Apache Indian Reservation, U.S. Geol. Survey (1977c, d)

Kelly Limestone, Iovenitti (1977)

Kilbourne Hole, Basu (1978); Brenner (1979); Cunningham, M. P. (1977); Davis, G. L., and Grew (1978); Horver and others (1979); Hart, S. R., and others (1979); James and others (1980a, b); Johnson, D. M., and Combs (1976); Minear and Irving

Kelley Formation, Meyers (1978, 1980)

(1979); Padovani (1977); Padovani and Carter (1976, 1977, Quail Queen field, Ahlen (1977c) 1978b) Reid, J. B., Bateman, and others (1977); Reid, J. Querecho Plains (Queen) field, Harrington (1977) B., and Woods (1978b); Richardson, S. H., and others Red Hills Penn field, Henry (1977d) (1980); Saito, Basu, and others (1977); Saito, Menzies, Red Hills Wolfcamp field, Henry (1977e) and others (1978); Stuart and Brenner (1979) Shoebar Strawn north field, Preston, C. D. (1977a) kimberlites, Crough and others (1980); McGetchin, Smith, Shoebar Wolfcamp north field, Preston, C. D. (1977b) and others (1977); Meyer, H. O. (1976) South Corbin Morrow field, Johnstone (1977) Kirtland Shale, Fasset and Hinds (1977); Wolberg (1980a. Southwest Gladiola Devonian field, Ingram (1977b) Southwest Gladiola Pennsylvanian field, Ingram (1977c) Laborcita Formation, see Magdalena Group Spencer field, Engwall (1977a) Ladron Mountains, Callender and Zilinski (1976); Condie Teague Blinebry field, Frizzell (1977) (1976); Cookro (1978); White, D. L. (1978a, b) Tres Papulotes field, Metts (1977a) La Jencia Basin, Brown, L. D., Allmendinger, and others Tres Papulotes west field, Metts (1977b) (1980)Triple "X" Delaware field, Ahlen (1977d) Lake Valley Limestone, Baghdad (1976); Burton, R. C. Tulk Penn and Wolfcamp fields, Zimmerman, G. D. (1977) (1977); Hill, E. B. (1978); Lane and De Keyser (1979); Vacuum Morrow field, Becker (1977c) Lohmann (1978); Lohmann and Meyers (1976, 1977); Vada Pennsylvanian field, Carelton (1977) Meyers (1977a, 1978, 1980); Meyers and Lohman (1978, West Knowles Drinkard field, Crowley, Dennis (1977) 1980); Oglesby, Meyers, and Lohmann (1979) West Ranger Lake Devonian field, Gross, M. C. (1977b) Lamar Limestone Member, see Bell Canyon Formation West Sawyer San Andres field, Keyes (1977) Landsat. see remote sensing Wilson Deep field, Thorsen (1977) Laramide orogeny, Allan and Swan (1978); Coney (1976b); lead, Kottlowski and Steensma (1979); Zantop (1980) Corbitt and others (1978); Nielson, R. L. (1978); Varnell Leadville Limestone, Armstrong and Mamet (1977a) and others (1976); Woodward (1976); Zantop (1980) Leasburg State Park, Bieberman (1979) Las Cruces Limestone, Lane and De Keyser (1979) Lemitar Mountains, Chamberlin (1976, 1978); McLemore La Ventana Tongue, see Cliff House Sandstone (1980a-c) Lea County limestone Antelope Ridge field, Kinchloe (1977) Greenhorn Limestone, Hattin (1979) Arkansas Junction (Queen) field, Savage, G. J. (1977a) Kelly Limestone, Iovenitti (1977a, b) Arkansas Junction (San Andres) field, Savage, G. J. (1977b) Mississippian, Meyers (1977b) Bagley north field, Alcorn (1977a, b) Lincoln County Bar-U field, Darden (1977) Carrizozo basalt field, Faris (1980); Faris and Renault Baum Upper Penn field, Colligan (1977) Brownfield 2° quadrangle, DeCicco and Patterson (1980a); Cone Peak rhyolite, Black, K. D. (1977a) U.S. Geol. Survey (1980f) Fort Sumner 2° quadrangle, DeCicco and Patterson (1980g) Carlsbad potash district, Aguilar and others (1976); Bodground water, Summers (1977b) ine and Laskin (1979); Brookins (1980b, c); Ellet (1978);hydrogeology, Earth Environmental Consultants, Inc. McNaughton (1978); Olhoeft (1978); U.S. Geol Survey (1976b) (1979b, f) land classification map, Banaszyski and others (1979); Casey Strawn field, Stewart, W. P. (1977) DeCicco and Patterson (1979b, 1980g) Cerca Lower Wolfcamp field, Brezina (1977b) Lincoln fold belt, Dennis, J. G., and Häll (1978); Yuras Cerca Upper Pennsylvanian field, Brezina (1977a) East Morton Wolfcamp field, Blankenship (1977) Lone Mountain skarns, Schnake (1977) East Shoe Bar Devonian field, Cys (1977c) Roswell 2° quadrangle, DeCicco and Patterson (1979b) Fowler Upper Yeso Pool, David, E. K., and others (1977a) Tularosa 2° quadrangle, Banaszyski and others (1979); Garrett Drinkard field, Scott, G. L. (1977a) Geodata International (1978) Garrett west Devonian field, Ahlen (1977b) Valley of Fires State Park, Faris and Renault (1980); Goodwin Abo field, David, E. K., and others (1977b) Weber, R. H. (1979a) Goodwin Drinkard field, David, E. K., and others (1977c) White Mountain Wilderness, Segerstrom and others (1979) Grama Ridge Morrow field, Lamb (1977) White Oaks mining district, Ricciardi (1978) ground water, Hudson, J. D. (1976, 1977a, 1979a, b) lithium, Brenner-Tourtelot and Machette (1979) High Plains Penn field, Gross, M. C. (1977a) Little Hatchet Mountains, Loring and Loring (1980a) Hobbs Blinebry field, Foltz and Siruta (1977) Llano Estacado Hobbs Drinkard field, Siruta and Foltz (1977) amphibian speciation, Blair, W. F. (1965) Hobbs 2° quadrangle, DeCicco and Patterson (1979d); Los Alamos County Texas Bureau of Economic Geology (1976); U.S. Geol. Albuquerque 2° quadrangle, DeCicco, Patterson, and Lutz Survey (1980d) (1978a); Geometrics (1979b); Maassen, Bolivar, and Humble City field, Spencer and Hutson (1977) others (1979); Wyant and Olson (1978) land classification map, DeCicco and Patterson (1979d, electromagnetic survey, Williston, McNeill, and Assoc., 1980a); U.S. Geol. Survey (1980d, f) Inc. (1979) La Rica Morrow field, Jordan (1977a) geothermal energy, Goff and Sayer (1980) Lazy "J" (Pennsylvanian) field, Cramer (1977) gravity survey, Williams, L. M. (1979) Lea Bone field, Jordan (1977b) ground water, Apt and Lee (1976); Cushman and Pur-Los Medaños, Elliot (1976) tymun (1976); Purtymun (1977a); Purtymun, Buchholz, Mescalero north (Cisco) field, Probandt (1977) and Hakonson (1977) North Morton Permo-Penn field, Hicks, C. W. (1977) hydrology, Purtymun (1977a, b, 1978, 1980) Oil Center Blinebry field, Kinchloe and David (1977) land classification map, DeCicco, Patterson, and Lutz Paduca Delaware field, Barreto (1978) Paduca Devonian field, Henry (1977a) magnetic survey (1979b)

radioactivity, Purtymun, Peters, and Stoker (1980)

soil survey, Nyhan, Hacker, and others (1978)

seismology, Budding and Purtymun (1979); Sanford (1976)

surface water pollution, Hakonson and others (1976, 1980)

Pennsylvanian, Gunter (1975)

petroleum and natural gas, Ahlen (1977b-d); Alcorn (1977a,

(1978); Roswell Geological Society (1977)

b); Havenor (1977); King, R. E. (1977); Rose, K. S.

Los Alamos Scientific Laboratory

hot dry rock, Aamodt (1976, 1977); Aamodt, Aki, and others (1979); Aamodt, Baltz, and others (1978); Aamodt, Brown, and others (1978); Aki (1980); Aki and others (1977); Albright (1976, 1979); Albright and others (1978); American Geophysical Union (1977a); Ander, Goss, and others (1980); Atkinson, P. G. (1980); Balagna, Beddoe, and others (1978); Balagna, West, and others (1977); Barker, C. (1976); Bodvarsson and others (1980); Brookins, Forbes, and others (1977); Brookins and Laughlin (1976a, b, 1977); Brown, D. W. (1976); Brown, M. C., and others (1979); Burruss and Holister (1979); Charles (1978); Charles and Herrick (1976); Charles, West, and others (1977); Cremer and others (1980); Crowe and others (1978); Cummings and others (1979); Dennis, B. R., and Horton (1978); Dennis, B. R., Miles, and others (1978); Dennis, B. R., and Murphy (1978); Duffield and Tester (1978); Duffy (1978); Ehrenberg and Perkins (1977); Fehler (1977); Gancarz (1978); Gutschick and Rea (1978); Hageman (1978); Hatton (1977, 1978, 1980a, b); Helmick and others (1976); Hendron (1978); Holley and others (1978); Hsu (1979); Hsu and others (1978); Kaufman, E. L., and Siciliano (1979); Keller, G. V., Grose, and Pickett (1978); Kintzinger and others (1978); Kintzinger, Reynolds, and others (1978); Kintzinger and West (1976); Kolstad and McGetchin (1978); Kolstad, McGetchin, and Laughlin (1976); Lambert, S. J. (1979a-c); Laughlin and Eddy (1976); Laughlin and West (1976); Laughlin, West, and others (1977); Lawton and Horton (1979); Maurer and others (1978); Messer and others (1978); Mortensen (1978); Murphy, H. D., (1976, 1978a, b); Murphy, H. D., and others (1978, 1980); Murphy, H. D., and Tester (1979); Naeser and Forbes (1976); Newsom and others (1978); Otte (1980); Pettitt (1976, 1977, 1978, 1979); Pettitt and Tester (1978a, b); Pettitt and West (1978); Potter, J. M. (1978); Potter, R. M. (1978); Purtymun, Adams, and others (1977); Purtymun, Ferenbaugh, and others (1980); Rea, K. H. (1977); Riecker (1977); Sanyal and others (1979); Schubert and others (1980); Sibbitt (1976); Sibbitt and others (1978, 1979); Simmons and Eddy (1976); Smith, M. C. (1975, 1976, 1978); Tester and Albright (1979); Tester and others (1979); Turner, D. L., and Forbes (1976); Turner, W. M., and Kues (1978); West, F. G., and Laughlin (1976); West, F. G., and Purtymun (1976); Zartman (1979)

radioactive waste disposal, Nyhan, Miera, and Peters (1976); Warren, J. L. (1980)

seismic array, Wechsler (1980)

uranium exploration, Grutt (1977)

Los Pinos Formation

Jarita Basalt Member, Baldridge and others (1980) Lucero uplift, Ander and Huestis (1978); Callender and Zilinski (1976); Fisher, R. A. (1979); Gambill (1980); Zilinski (1976)

Luna County

aluminum, Hall, R. B. (1978)

Cedar Mountains, Varnell and others (1976)

Douglas 2° quadrangle, DeCicco and Patterson, (1980f); Sharp and others (1978)

Dwyer 15' quadrangle, Watts, Hassemer, Nishi, and Siems

El Paso 2° quadrangle, DeCicco and Patterson (1980d) Grandmother Mountain East 71/2' quadrangle, Thorman and Drewes (1979a)

Grandmother Mountain West 71/2' quadrangle, Thorman and Drewes (1979a)

gravity studies, Wynn and Dansereau (1979)

guidebook, Clemons, Christiansen, and James (1980)

Hat Top Mountain 71/2' quadrangle, Varnell (1976) Klondike Hills, Corbitt and others (1978); Varnell and others (1976)

land classification map, DeCicco and Patterson (1980d,

f); DeCicco, Patterson, and Morgan (1980)

Pancho Villa State Park, Kottlowski (1980)

road logs, Clemons, Christiansen, and James (1980); Clemons and Seager (1978)

Rock Hound State Park, Weber, R. H. (1980b)

Silver City 2° quadrangle, DeCicco, Patterson, and Morgan (1980); Sharp and others (1978); Wynn and Dansereau (1979)

soil survey, Neher and Buchanan (1980)

Victorio Mountains, Thorman and Drewes (1980)

Madera Formation, see Magdalena Group Magdalena Group

Gobbler Formation, Van Wagoner (1977a)

Laborcita Formation, Cys and Mazzullo (1977); Delgado (1977a, b); Delgado and Pray (1977); Hosseini (1980); Winchester, P. D. (1976, 1977)

Madera Formation, Adams, R. D. (1978); Alexander (1980); Clark, G. R., II (1978); Kietzke and Kues (1979); Kues and Kietzke (1976); Mukhopadhyay and Brookins (1976a, b); Schram and Schram (1979); Swenson (1977); Tidwell and Ash (1980)

Magdalena Mountains, Allen (1979); Bowring (1980); Donze (1980); Osburn, G. R. (1978); Petty (1979); Roth (1980); Siemers, W. T., and Blakestad (1976)

Mancos Shale

ammonites, Cobban and Hook (1979, 1980); Hook and Cobban (1978, 1980b); Kennedy and Cobban (1976) brachiopods, Hook and Cobban (1977, 1980b) crabs, Kues (1980)

D-Cross Tongue, Hook and Cobban (1979)

dinoflagellates and acritarchs, Jones, R. E. (1976) general, McLafferty (1979)

geochronology, Brookins, Della Valle, and Register (1980) Graneros Member, Skeryanc (1977)

Grants uranium district, Della Valle and Brookins (1980b)

Juana Lopez Member, Hook and Cobban (1980a, b) mollusks, Cobban (1977a, b); Hook and Cobban (1980a)

Mulatto Tongue, Kirk and Zech (1977)

petroleum and natural gas, Berg (1979a)

Santa Fe County, Bachman (1976a) Semilla Sandstone Member, LaFon (1980)

soil science, Louderbough and Potter (1978)

Zuni Basin, Hook, Cobban, and Landis (1980)

Manzanita Mountains, Schram and Schram (1979) Manzano Mountains, Clark, G. R., II (1978); Durden (1979); Myers and McKay (1976); Titus (1980)

maps aeromagnetic

Abiquiu area, U.S. Geol. Survey (1976b)

Aztec 2° quadrangle, Geodata International (1980a)

Brownfield 2° quadrangle, Geodata International (1976c) Buck Robinson Peak area, U.S. Geol. Survey (1980j)

Carson area, U.S. Geol. Survey (1976d) Clovis 2° quadrangle, Geodata International (1976b)

general, U.S. Geol. Survey (1976e)

Hillsboro 15' quadrangle, Wynn (1978)

Hobbs 2° quadrangle, Geodata International (1980b)

index, U.S. Geol. Survey (1980m)

Little Dog-Pup Canyon area, U.S. Geol. Survey (1980k)

Malpais area, U.S. Geol. Survey (1979g)

northwest New Mexico, U.S. Geol. Survey (1980h)

Pecos area, U.S. Geol. Survey (1980i) Raton Basin, Geometrics (1979a, b)

Sangre de Cristo Mountains, Cordell, L. (1976b) San Lorenzo 15' quadrangle, Wynn (1978)

Silver City 2° quadrangle, U.S. Geol. Survey (1979d,

Socorro County, Chapin, Chamberlin, and others (1978b) Socorro 2° quadrangle, High Life Helicopters and Geodata International (1979)

Tortugas Mountains, Keller, G. R. (1979)

Tucumcari 2º quadrangle, Geodata International (1976a) Tularosa 2° quadrangle, Geodata International (1978)

Tularosa Valley, Bath (1977) Wheeler Peak area, U.S. Geol. Survey (1976c) Bouguer gravity anomaly Franklin Mountains, Barrie (1976b) general, Aiken, Laughlin, and West (1977, 1978) Hillsboro 15' quadragle, Wynn and Dansereau (1978) Rio Grande rift, Aiken (1978); Cordell, L. (1976d, 1978a); Cordell, L., Keller, and Hildenbrand (1978) San Lorenzo 15' quadrangle, Wynn and Dansereau (1978)Silver City 2° quadrangle, Wynn and Dansereau (1979) Socorro County, Chapin, Chamberlin, and others (1978b) southwestern New Mexico, Eaton, Peterson, and Webring (1977); Eaton, Peterson, Webring, and Ratte Taos Basin, Cordell, L. (1976d, 1978a) geochemical Hillsboro 15' quadrangle, Alminas and Watts (1978) San Lorenzo 15' quadrangle, Alminas and Watts (1978) Acoma Pueblo 71/2' quadrangle, Maxwell, C. H., Alamo Mesa West 71/2' quadrangle, Scott, G. R., O'Sullivan, and Mytton (1979) Albuquerque Basin, Kelley, V. C. (1977) Albuqurque 2° quadrangle, Wyant and Olson (1978) Alegros Mountain area, Jones, D. P. (1980) Arroyo de Agua 71/2' quadrangle, Ridgley (1979b, d) Aztec 2° quadrangle, Manley and Scott (1978) Baldy Mountain area, Walters, K. A. (1979) Bernalillo NW 71/2' quadrangle, Manley (1978d) Big Rock Hill 71/2' quadrangle, Kirk and Zech (1978) Bisti Trading Post 71/2' quadrangle, O'Sullivan, Scott, and Heller (1979b) Brockman 71/2' quadrangle, Thorman (1977) Burnham Trading Post 71/2' quadrangle, Scott, G. R., O'Sullivan, and Heller (1979a) Burro Peak 71/2' quadrangle, Hedlund (1978i) Caballo Peak, Mason (1976) Cañon de San Diego, Goff and Kron (1980) Capitan aquifer, Hiss (1976b, c) Casamero Lake 71/2' quadrangle, Robertson, J. F. (1976) Cat Mountain area, Wilkinson (1976) C Bar Ranch 71/2' quadrangle, Hedlund (1978h) Cedar Hills vent zone, Clemons (1978) Cerro del Grant area, Lawrence (1979) Chaco Canyon 1° × 1/2° quadrangle, Mytton (1979) Clovis 2° quadrangle, Texas Bureau of Economic Geology (1978) Continental Divide 71/2' quadrangle, Green (1976) Corkscrew Canyon-Abbe Spring area, Mayerson (1979) Corralitos Ranch 15' quadrangle, Clemons (1976c 1977) Cotton City 71/2' quadrangle, Drewes and Thorman (1980a) Coyote Peak 71/2' quadrangle, Thorman (1977) Crownpoint 71/2' quadrangle, Robertson, J. F. (1978) Crow Point 71/2' quadrangle, Maxwell, C. H. (1977c) Crystal 71/2' quadrangle, Byers (1979) Cubero 71/2' quadrangle, Maxwell, C. H. (1977b) Dalton Pass 71/2' quadrangle, Kirk and Sulivan (1976);

Kirk and Zech (1976a)

East Mesa 71/2' quadrangle, Maxwell, C. H. (1979)

Fort Bayard 71/2' quadrangle, El-Hindi (1977)

horst (1979)

May (1980)

Scott (1979)

McLelland (1976)

(1979)

Gila Wilderness study area, Ratte and Gaskill (1975) Gilman 71/2' quadrangle, Woodward, DuChene, and Martinez (1977) (1976c)ogy (1976) Heller (1979c) (1979)Heller (1979a) Datil area, Harrison (1980); Lopez, D. A., and Born-Española Basin, Kelley, V. C. (1978a); Manley (1977); Fire Rock Well 71/2' quadrangle, Weide, Mytton, and Mytton (1980) Fruitland 71/2' quadrangle, Weide, O'Sullivan, and Heller Gallina 71/2' quadrangle, Woodward, Gibson, and

Gold Hill 71/2' quadrangle, Hedlund (1978d) Good Sight Mountains, Clemons (1978, 1979) Grandmother Mountain East 71/2' quadrangle, Thorman and Drewes (1979a) Grandmother Mountain West 71/2' quadrangle, Thorman and Drewes (1979a) Hard Ground Flats 71/2' quadrangle, Kirk and Zech Hat Top Mountain 71/2' quadrangle, Varnell (1976) Hillsboro 15' quadrangle, Hedlund (1977a) Hobbs 2° quadrangle, Texas Bureau of Economic Geol-Hogback South 71/2' quadrangle, O'Sullivan, Scott, and Heller (1979d) Hurley East 71/2' quadrangle, Hedlund (1978e) index, McIntosh and Eister (1979); Robertson, J. M. (1976a); U.S. Geol. Survey (1976h) Jarosa 71/2' quadrangle, Timmer (1976); Woodward and Timmer (1979) Kimbeto 71/2' quadrangle, Schneider (1978); Schneider, Weide, and Scott (1979) Kin Klishin Ruins 71/2' quadrangle, O'Sullivan, Scott and Weide (1979) Kirtland SW 71/2' quadrangle, O'Sullivan, Scott, and Ladron Mountains, Condie (1976) Lake Animas, Fleischhauer (1977b) Lordsburg 71/2' quadrangle, Thorman and Drewes Los Pilares 71/2' quadrangle, Maxwell, C. H. (1977a) Lucero uplift, Zilinski (1976) Madrid 15' quadrangle, Bachman (1976b) Magdalena Mountains, Osburn, G. R. (1978); Petty Manzano Mountains, Myers and McKay (1976) McCartys 71/2' quadrangle, Maxwell, C. H. (1977d) Mining Mountain area, Hill, S. R. (1980) Mitten Rock 71/2' quadrangle, Huftman (1979) Mogollon 71/2' quadrangle, Ratte (1977) Mora River area, Baltz and O'Neill (1980a) Mount Taylor 71/2' quadrangle, Lipman and Mehnert Newcomb NE 71/2' quadrangle, Scott, G. R., O'Sullivan, and Heller (1979c) Newcomb SE 71/2' quadrangle, O'Sullivan, Scott, and Ninetysix Ranch 71/2' quadrangle, Hedlund (1978c) Oak Spring 71/2' quadrangle, Kirk and Zech (1976b) Ojo Encino Mesa 71/2' quadrangle, Scott, G. R., Schneider, and Mytton (1980) Pillar NW 71/2' quadrangle, Scott, G. R., O'Sullivan, and Heller (1979b) Placitas area, Kasten, T. (1980) Pueblo Alto Trading Post 71/2' quadrangle, Weide, Mytton, and Scott (1980) Pueblo Bonito 71/2' quadrangle, Schneider (1978); Weide, Schneider, and others (1979a) Pueblo Bonito NW 71/2' quadrangle, Schneider (1978); Schneider, Weide, Mytton, and Scott (1979) Pueblo Pintago 71/2' quadrangle, Weide, Scott, and Rainsville 71/2' quadrangle, Johnson, R. B. (1975) Rancho de Lopez area, Maulsby (1980) Reading Mountain 71/2' quadrangle, Finnell (1976b); Turner, D. L. (1979)

Gallinas Peak area, Laroche (1980)

Gila Primitive Area, Krier (1980)

Gallup East 71/2' quadrangle, Green and Jackson (1976)

Gary 71/2' quadrangle, Thorman and Drewes (1978b)

Gallup 2° quadrangle, Hackman and Olson (1977)

Redrock NE 71/2' quadrangle, Hedlund (1980c) Redrock NW 71/2' quadrangle, Hedlund (1980b) Redrock SE 71/2' quadrangle, Hedlund (1980a) Redrock Valley NE 71/2' quadrangle, Huffman (1977) Redrock Valley SE 71/2' quadrangle, Huffman and Jones Regina 71/2' quadrangle, Merrick (1980) Riley-Puertecito area, Massingill (1979a) Rustler Formation, Hiss (1976d) Saliz Pass 71/2' quadrangle, Ratte (1980) Saltys 71/2' quadrangle, Thorman and Drewes (1979b) San Acacia 71/2' quadrangle, Machette (1978a) Sand Spring 71/2' quadrangle, Huffman (1976) San Lorenzo 15' quadrangle, Hedlund (1977a) San Ysidro 71/2' quadrangle, Woodward and Ruetschilling (1976) Sapello River area, Baltz and O'Neill (1980b) Sargent Ranch 71/2' quadrangle, Schneider (1978); Weide, Schneider, and others (1979b) Sawmill Canyon area, Roth (1980) Scholle 71/2' quadrangle, Myers (1977) Sedillo 71/2' quadrangle, Myers and McKay (1978) Seven Springs 71/2' quadrangle, Timmer (1976) Sierra Cuchillo, Maldonado (1974. 1980) Sierra de las Uvas, Clemons (1978, 1979) Silver City 71/2' quadrangle, Cunningham, J. E. (1979) Socorro geothermal area, Chapin, Chamberlin, and others (1978b) Socorro 2° quadrangle, Machette (1978b) Soldiers Farewell Hill 71/2' quadrangle, Hedlund (1978b) Sonsela Butte SE 71/2' quadrangle, Byers (1980) Spring Canyon 71/2' quadrangle, Richter (1978) Squaw Peak area, Donze (1980) Star Lake 71/2' quadrangle, Scott, G. R., Mytton, and Schneider (1980) Steins 71/2' quadrangle, Drewes and Thorman (1980b) surficial, Hunt (1977a, b, 1978a, b) Tijeras 71/2' quadrangle, Myers and McKay (1976) Tres Montosas area, Wilkinson (1976) Tusas Mountain area, Kent, S. C. (1980) Twin Lakes $7^{1/2}$ ' quadrangle, Zech (1980) Twin Sisters $7^{1/2}$ ' quadrangle, Finnell (1976a) Tyrone 71/2' quadrangle, Hedlund (1978f) Uvas Valley, Clemons (1978, 1979) Vanar 15' quadrangle, Drewes and Thorman (1980a, Victorio Mountains, Thorman and Drewes (1980) Water Canyon-Jordan Canyon areas, Sumner (1980) Waterflow 71/2' quadrangle, Strobell and others (1980) Werney Hill 71/2' quadrangle, Hedlund (1978g) White Signal 7¹/₂' quadrangle, Hedlund (1978j) Wind Mountain 71/2' quadrangle, Hedlund (1978a) Winston 71/2' quadrangle, Heyl (1976); Maxwell, C. H., and Heyl (1976) hydrologic Capitan aquifer, Hiss (1976b, c) Colorado River region, Brown, S. G. (1976) Hidalgo County, Wilson, R. P., and White (1976) index, U.S. Geol. Survey (1976h, j) Mimbres Basin, McLean (1977) Rustler Formation, Hiss (1976d) land classification map Albuquerque 2° quadrangle, DeCicco, Patteson, and Lutz (1978a) Albuquerque 1/2° by 1° quadrangle, U.S. Geol. Survey

Aztec 2° quadrangle, DeCicco, Patterson, and Lutz

Brownfield 2° quadrangle, DeCicco and Patterson

Carlsbad 2° quadrangle, DeCicco and Patterson (1979c);

(1980a); U.S. Geol. Survey (1980f)

U.S. Geol. Survey (1976, 1980a)

(1979e)

(1978d, 1980) Roswell 2° quadrangle, DeCicco and Patterson (1979b) Saint Johns 2° quadrangle, DeCicco and Patterson (1979a) Santa Fe 2° quadrangle, DeCicco and Patterson (1980b) Shiprock 2° quadrangle, DeCicco, Patterson, and Lutz (1978c); U.S. Geol. Survey (1979c, 1980c) Silver City 2° quadrangle, DeCicco, Patterson, and Morgan (1980) Socorro 2º quadrangle, DeCicco, Patterson, and Lutz Tucumcari 2° quadrangle, DeCicco and Patterson (1980i) Tularosa 2° quadrangle, Banaszyski and others (1979) miscellaneous Cenozoic volcanic centers, Luedke and Smith (1979) heat flow, Lohse and others (1980b) radioactivity, airborne, U.S. Geol. Survey (1980m) San Luis Valley, Colton (1976) Carlsbad potash district, U.S. Geol. Survey (1979f) Chaco Canyon coal, Mytton (1979) copper, Alminas, Watts, and others (1978b) Dwyer 15' quadrangle, Watts, Hassemer, Nishi, and Siems (1978) Hillsboro 15' quadrangle, Hedlund (1977b); Watts and Alminas (1979); Watts, Alminas, and Kraxberger (1978); Watts, Alminas, and others (1978a-c) molybdenum, Alminas, Watts, and others (1978c) Pecos Wilderness, U.S. Geol. Survey and others (1980) potash, Aguilar and others (1976) San Lorenzo 15' quadrangle, Hedlund (1976b); Watts and Alminas (1979); Watts, Alminas, and Kraxberger (1978); Watts, Alminas, and others (1978a-c) silver, Alminas, Watts, and others (1978a) Silver City 2° quadrangle, Watts and Hassemer (1980); Watts, Hassemer, Siems, and Nishi (1978) uranium, Hackman and Olson (1977); Reid, B. E., and others (1980) zinc, Alminas, Watts, and others (1978d) tectonic Raton Basin, Woodward and Snyder (1976a) Rio Grande rift, Woodward, Callender, and others (1978) **McKinley County** see also Grants uranium district Albuquerque 2° quadrangle, DeCicco, Patterson, and Lutz (1978a); Geometrics (1979b); Maassen, Bolivar, and

Clifton 2° quadrangle, DeCicco, Patterson and Ya-

Clovis 2° quadrangle, DeCicco and Patterson (1980d) Dalhart 2° quadrangle, DeCicco, Patterson, and Rob-

Douglas 2° quadrangle, DeCicco and Patterson (1980g)

El Paso 2º quadrangle, DeCicco and Patterson (1980e)

Fort Sumner 2° quadrangle, DeCicco and Patterson

Gallup 2° quadrangle, Patterson, E. D., and others

Hobbs 2° quadrangle, DeCicco and Patterson (1979d);

Las Cruces 2° quadrangle, DeCicco and Patterson (1980f)

Raton 2° quadrangle, DeCicco, Patterson, and Lutz

(1978); U.S. Geol. Survey (1979a, 1980b)

general, Morain and others (1977)

U.S. Geol. Survey (1980d)

mamoto (1980)

inson (1980)

(1980h)

others (1979); Wyant and Olson (1978) Big Rock Hill 71/2' quadrangle, Kirk and Zech (1978) Blackeye Dakota field, Black, B. A. (1978a) Casamero Lake 71/2' quadrangle, Robertson, J. F. (1976) Cebolleta Grant, Boyd (1976) Chaco Wash Mesaverde field, Black, B. A. (1978c) Chico Arroyo, Craigg (1980) Church Rock, Hearne (1977) coal, Cavaroc and Flores (1980); Dames and Moore (1979d,

e, g-i, n, s); Jackson, D. (1978); Wilcox and others (1980); Wilson, J. C. (1977) Continental Divide 71/2' quadrangle, Green (1976) Crevasse Canyon Formation, Kirk and Zech (1977) Crownpoint, Earth Environmental Consultants, Inc. (1976c); Guyton, W. F., and Associates (1978) Crownpoint 71/2' quadrangle, Robertson, J. F. (1978) Crystal 71/2' quadrangle, Byers (1979) Dalton Pass 71/2' quadrangle, Kirk and Sullivan (1976); Kirk and Zech (1976a) East Chaco Canyon drilling project, Lease (1979) Fire Rock Well 71/2' quadrangle, Dames and Moore (1979d) Francis Mesa, Best (1973) Franciscan Lake Mesaverde field, Kennedy, C. C. (1978a) Gallup, City of Gallup (1977); Hiss (1976); Hiss and Marshall (1976) Gallup 2° quadrangle, Geometrics (1979a); Hackman and Olson (1977); Maassen, LaDelfe, and others (1980); Patterson, E. D., and others (1978); U.S. Geol. Survey (1979a, 1980b) Gallup East 71/2' quadrangle, Green and Jackson (1976) Gallup Sandstone, McLean (1980) ground water, Boyd (1976); Guyton, W. F., and Associates (1978); Hearne (1977); Hiss (1976a); Hiss and Marshall (1976); McLean (1980); Reed (1977) Hard Ground Flats 71/2' quadrangle, Kirk and Zech (1976c) helium, Chemical Projects Ltd. (1978) Hospah Dakota field, Luce (1978a) Hospah Lower Sand field, Luce (1978b) Hospah Upper Sand field, Bircher (1978c) Hospah Upper Sand south field, Luce (1978c) hydrogeology, Brod (1979); Craigg (1980); Earth Environmental Consultants, Inc. (1976c) land classification map, DeCicco and Patterson (1979a); DeCicco, Patterson, and Lutz (1978a); Patterson, E. D., and others (1978); U.S. Geol. Survey (1979a, 1980b) Lee Ranch area, Wilcox and others (1980) Lone Pine Dakota "A" field, Storhaug (1978a) Lone Pine Dakota "D" field, Storhaug (1978b) Lybrook SE 71/2' quadrangle, Dames and Moore (1979e) magnetic survey, Geometrics (1979a) Mancos Shale, Kirk and Zech (1977) Marcelina Dakota field, Weidler (1978a) McKinley mine, Jackson, D. (1978); Wilson, J. C. (1977) Miguel Creek Gallup field, Weidler (1978b) Oak Spring 71/2' quadrangle, Kirk and Zech (1976b) Ojo Encino, Hinkley and others (1980) Ojo Encino Entrada field, Bryant (1978a) Ojo Encino Mesa 71/2' quadrangle, Dames and Moore (1979s); Scott, G. R., Schneider, and Mytton (1980) Papers Wash Entrada field, Bryant (1978b) petroleum and natural gas, Fassett, Thomaidis, and Matheny (1978); Matheny, M. L., and Talley (1978) Pueblo Alto Trading Post 71/2' quadrangle, Dames and Moore (1979h); Weide, Mytton, and Scott (1980) Pueblo Bonito 71/2' quadrangle, Dames and Moore (1979n) Pueblo Pintado 71/2' quadrangle, Dames and Moore (1979g); Weide, Scott, and Mytton (1980) Red Mountain Mesaverde field, Black, B. A. (1978d) road logs, Fassett, Jentgen, and others (1977); Fassett, Molenaar, and others (1977); Saucier (1979) Saint Johns 2° quadrangle, DeCicco and Patterson (1979a); Maassen and others (1980); Sharp and others (1978) Sargent Ranch 71/2' quadrangle, Dames and Moore (1979o) Seven Lakes Menefee field, Black, B. A. (1978e) Smith Lake mining district, Place and others (1980); Ristorcelli (1980a, b) Sonsela Butte SE 71/2' quadrangle, Byers, (1980) Star Lake coal mine, LeMone and others (1977) Star Lake 71/2' quadrangle, Dames and Moore (1979i); Scott, G. R., Mytton, and Schneider (1980) Sundance, Jentgen and Fassett (1977)

Torreon Wash, Craigg (1980) Twin Lakes 71/2' quadrangle, Zech (1980) uranium, Chemical Projects, Ltd. (1978) Walker Dome Mancos field, Kennedy, C. C. (1978c) Ya-Ta-Hey, McLean (1980) Zuni hot dry rock prospect, Ander, Goss, and others (1980); Ander, Laughlin, and others (1980) Menefee Formation, see Mesaverde Group mercury, Brandvold, L. A. (1977) Mesa Rica Sandstone, Gage and Asquith (1977a, b) Mesaverde Group Cliff House Sandstone, Fassett (1977b); Fuchs-Parker (1977); Mannhard (1976) Crevasse Canyon Formation, Kirk and Zech (1977); Tschudy (1976) Dalton Sandstone Member, Kirk and Zech (1977) Gallup Sandstone, Berg (1979a); Campbell, C. V. (1979); Kirk, Huffman, and others (1978); McLean (1980); Mizell and Stone (1979) general, Bachman (1976a); McLafferty (1979) La Ventana Tongue, Fuchs-Parker (1977); Mannhard (1976) Menefee Formation, O'Sullivan (1980); Siemers, C. T. (1978a, b); Siemers, C. T., and Wadell (1977); Tabet and Frost (1979b); Tabet, Frost, and Kottlowski (1979); Whyte and Shomaker (1977a, b) petroleum and natural gas, Berg (1979a); Towse (1980) Point Lookout Sandstone, Devine (1980); Fassett (1977b); Hunter, B. E. (1979); Shetiwy (1978) Mescalero Apache Indian Reservation, U.S. Geol. Survey (1977c, d) Mesilla Valley, Pinzon Lizarraga (1978) Mesilla Valley shale, Strain (1976) Mesozoic tectonics, Hamilton, W. (1978) metamorphism Cuchillo Mountain laccolith, McMillan (1979); McMillan and Jahns (1979) Hidalgo County, Budding and Broadhead (1977c); Ewing, R. C., and Thompson (1977); Thompson, S., III (1977b)Picuris Range, Holdaway (1978) Sandia Mountains, Berkeley and Callender (1979); Berkeley, Callender, and Keil (1976); Kasten, T. (1980) skarns, Schnake (1977) Truchas Range, Grambling (1978, 1979a-c) Wind Mountain, Burton, J. C., and Jackson (1979) meteorites, Lange and Keil (1976) C., and Parry (1979) mineral exploration

mica, Holdaway (1978); Jacobs, D. C. (1976); Jacobs, D.

Albuquerque 2° quadrangle, DeCicco, Patterson, and Lutz (1978a)

Aztec 2° quadrangle, DeCicco, Patterson, and Lutz (1978b) Brownfield 2° quadrangle, DeCicco and Patterson (1980a) Carlsbad 2° quadrangle, DeCicco and Patterson (1979c) Catron County, Maxwell, C. H., and Heyl (1980) Clifton 2° quadrangle, DeCicco, Patterson, and Yama-

moto (1980) Clovis 2° quadrangle, DeCicco and Patterson (1980d) coal, general, Vaninetti (1979)

copper, Nash (1976)

Dalhart 2° quadrangle, DeCicco, Patterson, and Robinson

Douglas 2° quadrangle, DeCicco and Patterson (1980g) El Paso 2° quadrangle, DeCicco and Patterson (1980e) Fort Bayard 71/2' quadrangle, El-Hindi (1977)

Fort Sumner 2° quadrangle, DeCicco and Patterson (1980h) general, Eyde (1977); Maxwell, C. H. (1978); Northrop (1979)

Gila Wilderness study area, Ratte, Gaskill, and others (1979)

Hell Canyon greenstone belt, Woodward, Parchman, and Central district, Jacobs, D. C. (1976) others (1979) Cerrillos district, Schroeder (1979) Hidalgo County, Elston, Erb, and Deal (1979); Williams, Chloride district, Maxwell, C. H., and Heyl (1980) S. A. (1978) Cooney district, Eveleth, (1979a) Hobbs 2° quadrangle, DeCicco and Patterson (1979d) Gallup district, Pierson and Green (1977, 1980) general, Mardirosian (1979); New Mexico Energy and Las Cruces 2° quadrangle, DeCicco and Patterson (1980f) McKinley County, Jentgen and Fassett (1977) Minerals Department (1979); Robertson, J. M. (1976b) molybdenum, Woodcock (1979) Gila fluorspar district, Ratte (1978b) Pecos Wilderness, U.S. Geol. Survey and others (1980) Hansonburg district, Kottlowski and Steensma (1979); Putnam (1980); Steensma (1979); Taggart and Foord petroleum and natural gas, Jones, B., and McMillan (1977) Raton 2° quadrangle, DeCicco, Patterson, and Lutz (1978d, 1980) Hermosa district, Maxwell, C. H., and Heyl (1980) Roswell 2° quadrangle, DeCicco and Patterson (1979b) High Rolls district, LaPoint (1979) Saint Johns 2° quadrangle, DeCicco and Patterson (1979a) Kelly district, Allen (1979); Blakestad (1977); Iovenitti San Juan Basin, Elias (1977); Molenaar (1977b) San Juan County, Jentgen and Fassett (1977) Kingston district, Eveleth and North (1980) Santa Fe 2° quadrangle, DeCicco and Patterson (1980b) Shiprock 2° quadrangle, DeCicco, Patterson, and Lutz Magdalena district, Iovenitti and Renault (1977); Narsavage (1979) (1978c)Mogollon-Datil volcanic field, Chapin and Elston (1978) Sierra County, Maxwell, C. H., and Heyl (1980) Mogollon district, Eveleth (1979a); Watts, Hassemer, Forn, Silver City 2° quadrangle, DeCicco, Patterson, and Morand Siems (1979) gan (1980) Pecos district, Riesmeyer (1978) skarn, Burt (1978a, b) Petaca district, North, R. M. (1979) Socorro County, Fischer, W. A., and others (1979) Pinos Altos district, McKnight and Fellows (1978) Socorro 2º quadrangle, DeCicco, Patterson, and Lutz (1979) Rayo district, LaPoint (1979) southwestern New Mexico, Eaton, Peterson, Webring, Red Cloud district, Modreski (1979) and Ratte (1976) Scholle district, LaPoint (1979) Taos County, Restrepo (1972) Smith Lake district, Place and others (1980); Ristorcelli tectonics, Mutschler and others (1978); Rona (1977); Tooker (1980a, b) (1978); Woodward and Northrop (1976) White Oaks district, Ricciardi (1978) Tertiary cauldrons, Elston (1978b, c); Elston, Rhodes, mining history and Erb (1976) Jones, Fayette A., Holts (1979a) Tierra Amarilla Grant, Butler, Charles (1977) New Mexico Bureau of Mines and Mineral Resources, Holts (1979b); Merillat (1977a, b) Tucumcari 2° quadrangle, DeCicco and Patterson (1980i) Tularosa 2° quadrangle, Banaszyski and others (1979) Santa Fe County, Warren and Weber (1979) uranium, Bivins and others (1980); Brookins, Riese, and mining law, Eveleth (1979b) Lee (1977); Chenoweth and Holen (1980); DeVoto and mining technology Mead (1979); DeVoto, Mead, Bergquist, and Martin Ambrosia Lake, Simpson, D. N. (1978) (1977); DeVoto, Mead, Martin, and Bergquist (1980); chalcocite, Shantz (1976) Earth Satellite Corporation (1979); Energy Research and coal gasification, American Geophysical Union (1977b); Development Administration (1976a, b); Fitch (1980); Buder (1978); Lent (1980a, b); Meissner (1977); Milios Gableman (1977, 1978); Galloway, W. E. (1978); Leach (1976); Stalkup (1978); Tilton (1976); Weiber and Sikri and Puchlik (1976); Massingill (1979b); Rawson (1976, (1978)coal stripping, Marston (1976) 1980); Reimer and others (1979); Reynolds, R. L., and Goldhaber (1978a, b); Rhett (1980); Rice and Reimer cyanide heap leaching, Eveleth (1979a) general, Eyde (1977); Paul Weir Company (1976) (1977); Riese, W. C., Lee, and others (1979); Saucier gravitational ore separation, Steensma (1979) (1977)White Mountain Wilderness, Segerstrom and others (1979) longwalls, Davis, Harold (1978); Gentry and Abel (1978) WIPP site, Siemers, W. T., and others (1978) molybdenum, Kendorski (1978) mineral production potash, Eller (1978); Wynne (1978) bacterial leaching, Brierley (1977, 1979) reclamation, Aldon (1978a, b); Gosz and others (1978); fluorspar, McAnulty (1978) Gould (1978); Gould and others (1977); Hinkley (1980); Hinkley and others (1980); Imhoff and others (1976); general, Eyde (1977); Craig, J. I. (1977); Eveleth and Kottlowski (1980); Eveleth and Sheffer (1978); New Inglis and others (1978); Miyamoto and others (1977); Mexico Energy and Minerals Department (1978); Shantz Reynolds, J. F., and others (1978); Tabet (1977a); Toy (1977a); Sheffer and Eveleth (1979); Sheffer and Eveletti and Munson (1979) (1978); Siemers, W. T. (1979); Siemers, W. T., and solution mining, Smith, R. W. (1979) Austin (1979a, b); Siemers, W. T., Austin, and Kottsouthwest New Mexico, Shantz (1979) lowski (1980); Sondermayer (1976); U.S. Bureau of uranium tailings, Beard and others (1980) Mines (1976, 1977, 1979, 1980); Van Sant (1977) York Canyon mine, Davis, Harold (1978); Jackson, Daniel (1978) potash, Case (1978); McNaughton (1978) sylvite, Scroggin (1978) Mississippian uranium, Coleman (1978); Conine (1980); Energy Re-Big Hatchet Mountains, Armstrong and Mamet (1978a, search and Development Administration (1976a, b); Engineering and Mining Journal (1976); Riese, A. C., and carbonate shelf and Transcontinental Arch, Lane and De Popp (1980); Zielinski (1979) Keyser (1979) entomology, Durden (1979) mining districts Apache no. 2 district, Peterson, S. L. (1977) foraminifera, Conkin and Conkin (1979) general, Armstrong (1979); Armstrong, Kottlowski, and Black Hawk district, Von Bargen (1979) Black Range district, Eveleth and Siemers (1980) others (1980); Armstrong and Mamet (1977b, 1978b, Carlsbad potash district, Aguilar and others (1976); 1979a, b); Armstrong, Mamet, and Repetski (1980); McNaughton (1978); U.S. Geol. Survey (1979b, f); Craigg, L. C., and Varnes (1979) Wynne (1978) Lake Valley formation bioherms, Baghdad (1976)

```
Lake Valley Limestone, Meyers (1977a)
                                                              uranium, Abbot (1979); Austin, S. R. (1979, 1980); Baird
  limestones, Meyers (1977b, 1978, 1980); Meyers and
                                                                and Martin (1979); Baird, Martin, and Lowry (1980);
   Lohmann (1978, 1980)
                                                                Brookins (1976a); Galloway, W. E. (1978, 1979); Hicks
   paleontology, general, Dutro and others (1979)
                                                                and others (1980); Langford (1977); Ridgley (1979a,
  paleotectonics, Craig, L. C., and Connor (1979); Mapel
                                                                1980); Saucier (1976); Smith, D. A., and Peterson (1979);
    and others (1979); Varnes (1979)
                                                                Squyres (1980); Turner-Peterson (1980); Turner-Peter-
  Pedregosa Basin, Armstrong, Mamet, and Burton (1979);
                                                                son and others (1980); Young, R. G. (1977, 1978)
   Silver, B. A., and Wermiel (1976)
                                                               Westwater Canyon Member, Austin, S. R. (1979, 1980);
  Sacramento Mountains, Schaefer (1976)
                                                               Clark, D. S. (1980); Della Valle and Brookins (1979,
  San Juan County, Rose, P. R. (1976)
                                                                1980a, b); Galloway, W. E. (1980); Guyton, W. F., and
  San Juan Mountains, Armstrong and Mamet (1977a, b)
                                                                Associates (1978); Hicks, R. T., and others (1980); Kelly,
Moenkopi Formation, Dickinson and Suczek (1979); Shive
                                                               T. E. (1977); Kelly, T. E., Link, and Schipper (1980);
 and others (1979)
                                                               Martinez, R. (1979); Moore, S. C., and Lavery (1980);
Mogollon-Datil volcanic field, Berry (1976); Bornhorst
                                                                Peterson, R. J. (1980); Rhett (1980); Riese, W. C. (1977,
 (1980); Bornhorst, Elston, and Della Valle (1980); Chapin
                                                                1980); Riese, W. C., and Brookins (1976, 1977, 1978,
 and Elston (1978); Dodge (1979); Elston (1976b); Krohn
                                                                1979, 1980); Saucier (1980); Turner-Peterson and Gun-
 (1976); Lindley (1979); Lindley and others (1980); Ratte
                                                               derson (1980); Wentworth and others (1979)
 and Grothro (1979); Rhodes (1976a, b); Rhodes and Smith
                                                            Mount Taylor volcanic field, Brookins, Crumpler, and Els-
 (1976); Stinnett (1980); Stinnett and Stueber (1976)
                                                             ton (1977); Crumpler (1976, 1977, 1978, 1980); Lipman
Mogollon Plateau, Coney (1976a); Elston, Rhodes, Coney,
                                                             and Mehnert (1980); Ridley (1979); Riese, W. C. (1977,
 and Deal (1976); Smith, E. I., and others (1976); Strang-
                                                             1980); Riese, W. C., and Brookins (1976, 1977, 1978,
 way and others (1976)
                                                             1979, 1980)
Mojado Formation, Corbitt and others (1977)
                                                            Mount Withington cauldron, Chapin and Deal (1976)
molybdenum, Alminas, Watts, and others (1978c); Ken-
                                                            Muleros Formation, Strain (1976)
 dorski (1978); Woodcock (1979)
                                                            muscovite, Gresens and Stensrud (1977)
Montoso maar, Aubele (1976)
                                                            Nacimiento Formation, Butler, R. F., and Taylor (1978);
Montoya Group
                                                             McElhinny and Crowley (1980); Taylor, L. H. (1977);
  Aleman Formation, Geeslin (1980)
                                                             Taylor, L. H., and Butler (1980); Tsentas and Lucas (1980)
  conodont biostratigraphy, Sweet (1977)
                                                            Nacimiento uplift, Woodward (1978); Woodward, Mc-
  general, Howe (1979); Repetski and Drewes (1979)
                                                             Lelland, and Husler (1977)
  Rio Mimbres Sandstone, LeMone (1977)
                                                            Naco Group
Mora County
                                                              Colina Limestone, Nielson, T. W. (1978)
  El Oro gneiss dome, Budding and Cepeda (1979)
                                                              Concha Limestone, LeMone, Simpson, and Thompson
  gamma ray and magnetic survey, Geometrics (1979b)
                                                               (1978); Simpson, R. D., LeMone, and Thompson (1978a,
  guidebook, Ewing, R. C., and Kues (1976)
  land classification map, DeCicco and Patterson (1980b);
                                                              Horquilla Limestone, Jacka and Thompson (1980)
   DeCicco, Patterson, and Lutz (1978d, 1980)
                                                            Navajo Indian Reservation, Cooley and others (1978);
  landslide, Lovelace (1976)
                                                             Stone, W. J., Brod, and Anderholm (1978); Stone, W. J.,
  Mora River valley, Faith Enterprises, Inc. (1977)
                                                             and Jackson (1980); Turney, W. F., and Associates (1976)
  Rainsville 71/2' quadrangle, Johnson, R. B. (1975)
                                                            Navajo volcanic field, Ehrenberg (1978, 1979); Ehrenberg
  Raton 2° quadrangle, DeCicco, Patterson, and Lutz (1978d,
                                                             and Griffen (1979); Roden (1978)
   1980); Geometrics (1979b); Morgan, T. L., and Broxton
                                                            nepheline, Dollase and Thomas (1978)
   (1978)
                                                            New Mexico Bureau of Mines and Mineral Resources,
  road log, Lessard (1976)
                                                             Holts (1979b); Kottlowski and staff (1976, 1977, 1979,
  Santa Fe 2° quadrangle, DeCicco and Patterson (1980b):
                                                             1980); Merillat (1977a, b)
   Geometrics (1979b)
                                                            New Mexico Geological Society, Northrop (1977)
  Shoemaker, Faith Enterprises, Inc. (1977)
                                                            Niobrara Formation, see Colorado Group
  stratigraphy, MacLachlan (1976)
  Wagon Mound, Lovelace (1976)
                                                            Ocate volcanic field, O'Neill and Mehnert (1980a, b)
  Wagon Mound basalt flow, Stewart, D. C., and Windom
                                                            Ochoan
                                                              Delaware Basin, Austin, G. S. (1978)
  Wagon Mound Dakota-Morrison field, Brooks, B. J.,
                                                            Ogallala Formation or aquifer
   and Clark (1978)
                                                              general, Frye and others (1978)
Morenci shear zone, Baldridge (1979)
                                                              hydrology, Banks (1980); Herkenhoff and Associates
Morrison Formation
                                                               (1977); Sloggett (1977)
  Brushy Basin Shale Member, Della Valle and Brookins
                                                              paleontology, Frye and others (1978); Leonard, A. B.
   (1980b); Jenkins, J. T., Jr., and Cunningham (1979,
                                                               (1977); Leonard, A. B., and Frye (1978)
   1980); Martinez, R. (1979); Tessendorf (1980)
                                                              pollution, Taylor, R. G., and others (1978)
  Colorado Plateau, Dickinson and Suczek (1979)
                                                              uranium, Reeves (1977, 1978)
  geochemistry, Lee, M. J. (1976a, b)
                                                            Ogle Cave, Davis, D. G. (1979)
  geochronology, Brookins, Della Valle, and Register (1980);
                                                            Ojo Alamo Sandstone, Rigby and Lucas (1977)
   Lee, M. J., and Brookins (1978, 1980); Ludwig (1980)
                                                            Ojo Caliente Sandstone Member, see Tesuque Formation
  Jackpile sandstone, Baird and Martin (1979); Baird, Mar-
                                                            Ordovician, Hayes (1978); LeMone (1977); Ross, R. J.,
   tin, and Lowry (1980); Owen, Walters, Depetro, and
                                                             Jr. (1976)
   Turmelle (1978)
                                                            ore deposits
  petroleum and natural gas, Campbell, C. V. (1976)
                                                              Catron County, Maxwell, C. H., and Heyl (1980)
  Recapture Shale Member, Della Valle and Brookins (1980b)
                                                              celestite, Rickman (1977)
 Salt Wash Member, Austin, S. R. (1979, 1980); Huffman,
                                                              copper, Ahmad and Rose (1980); Akright (1979); Beane
  Kirk, and Corken (1980)
                                                               (1980); Beane and others (1980); Drewes (1978); Feis
 Shiprock-Beautiful Mountain area, Corken (1979)
                                                               (1978); LaPoint (1976, 1977, 1979); Mitcham (1978);
 stratigraphy, Green and Pierson (1977); Riese, W. C.,
                                                               Nielson, R. L. (1978); Reynolds, T. J., and Beane (1979);
```

Zantop (1980)

general, Proffett (1978)

and Brookins (1977)

tectonics, Saucier (1976)

gold, Lindquist (1980); Springett (1980); Woodward, Tularosa 2° quadrangle, Banaszyski and others (1979); Snyder, and Husler (1978) Geodata International (1978) Grant County, Fierro deposits, Yousefpour (1978) Tularosa Valley, Banaszynski and others (1979); Bath Jones Camp iron deposits, Bickford (1980) (1977); Bath and others (1977) Overthrust Belt, Woodward (1980a, b) lead, Zantop (1980) lead isotopes, Ewing, T. E. (1979) magmatothermal, Doe (1979) Pajarito fault zone, Golombek (1980) Mississippi Valley type deposits, Putnam (1980) Pajarito Plateau, Budding (1978); Rogers, M.A., and Burmolybdenum, Kendorski (1978) ton (1980); Rogers, M. A., Christie, and Budding (1980) Pecos mining district, Riesmeyer (1978) primates, Wood, C. B., and others (1979) Pinos Altos mining district, McKnight and Fellows (1978) Precambrian, Giles (1976) San Juan Basin, Alvarez and Vann (1979) Sangre de Cristo Range, Moench and Erickson (1980) paleoecology Baca Formation, Chaiffetz (1979) San Miguel County, Riesmeyer and Robertson (1979) San Pedro Mountains, Atkinson, W. W., Jr. (1976) Capitan Limestone or reef complex, Yurewicz (1976) Sierra Blanca igneous complex, Black, K. D. (1977b) Chaco Canyon, Hall, S. A. (1977) Sierra County, Maxwell, C. H., and Heyl (1980) Chihuahuan Desert, Metcalf (1977); Van Devender and skarn, Burt (1978a, b); Schnake (1977) Worthington (1977) tectonics, Mutschler and others (1978); Rona (1977); Tooker Dry Cave, Harris, A. H. (1980) Estancia Valley, Bachhuber and McClellan (1977) (1978)uranium, Adams, S. S. (1977); Adams, S. S., and others Hueco Group, LeMone and Simpson (1977) (1978); Austin, S. R. (1979, 1980); Beck, R. G., and Lamar Limestone, Babcock, L. C. (1977) others (1980); Brookins (1976b, c, 1977d, 1978d); Clark, Rio Grande rift, Axelrod and Bailey (1976) D. S. (1980); Ethridge, Ortiz, Granger, and others (1980); Sacramento Mountains, De Keyser (1979) Ethridge, Ortiz, Sunada, and Tyler (1980); Falkowski Triassic Ciniza Lake, Ash, Dean, and others (1978) (1980a, b); Foster, J. F., and Quintanar (1980); Green paleoenvironments Chaco Canyon, Betancourt and Van Devender (1980); (1979, 1980); Huffman, Kirk, and Corken (1980); Huffman and Lupe (1977); Jacobsen (1980); Kozusko and Love (1976, 1977, 1979, 1980) Saucier (1980); Livingston (1980); Melvin (1976); Place Chama Basin, Ridgley (1977) and others (1980); Rhett (1980); Ridgley (1979a, 1980); Chihuahuan Desert, Harris, A. H. (1977) Riese, W. C. (1977, 1980) Riese, W. C., and Brookins (1976, 1978, 1979, 1980); Riese, W. C. Brookins, and Chinle Formation, Kurtz and Anderson (1980) Cliff House Sandstone, Mannhard (1976) Della Valle (1978, 1980); Riese, W. C., Brookins, and Dakota Sandstone, Bejnar, C. R., and Lessard (1976); Lee (1978); Ristorcelli (1980a, b); Sachdev (1978, 1980); Levinson (1979) Smith, D. A., and Peterson (1980); Squyres (1980); general, Scott, R. W. (1977) Tessendorf (1980); Thompson, D. T. (1980); Turner-Hueco Formation, DeSimpson (1976) Peterson (1980); Turner-Peterson and others (1980); Mancos Shale, McLafferty (1979) Menefee Formation, Tabet, Frost, and Kottlowski (1979) Vassiliou (1980a, b); Wentworth and others (1980) Mesaverde Group, Mannhard (1976); McLafferty (1979) zinc, Zantop (1980) Organ cauldron, Macer (1978); Seager (1978a); Seager Pennsylvanian Chaetetes lithotypes, Spaw (1977) sabkha and uranium, Rawson (1976, 1980) and Brown (1978) San Juan Basin, Erpenbeck and Flores (1979); Levinson Organ Mountains, Stone, W. J. (1976c) Orogrande Basin, Greenwood (1979); Greenwood and others Santa Fe County, Leopold (1976) (1977)Santa Rosa Sandstone, LaPoint and Christiansen (1977) Ortega Quartzite, Gresens (1976) Tamaroa sequence, Bahlburg (1977); Bahlburg and Silver Osha Canyon Formation, DuChene and others (1977) Otero County Carlsbad 2° quadrangle, DeCicco and Patterson (1979c); Trinidad Sandstone, Pillmore and Maberry (1976) paleogeography, Blakey (1978, 1980); Casey (1980a); U.S. Geol. Survey (1976a, 1980a) Cloudcroft, Galloway, S. E., and Nelson (1977) Schiebout (1978) garnets, Bettis (1977) paleomagnetism Chamita Formation, MacFadden (1976); MacFadden and geothermal energy, Taylor, Bruce, and others (1980) Manley (1976) Holloman Air Force Base, Ballance (1976) Hueco Bolson, Meyer, W. R. (1976); Uphoff (1978) Chinle Formation, Helsley (1977) Dewey Lake Formation, Peterson, D. N. (1979) Hueco Tanks, Taylor, Bruce, and others (1980) hydrology, Ballance (1976); Galloway and Nelson (1977) Moenkopi Formation, Shive and others (1979) Mogollon Plateau, Strangway and others (1976) Jarilla Mountains, Strachan (1976) land classification map, Banaszyski and others (1979); Nacimiento Formation, Butler, R. F., and Taylor (1978); McElhiny and Crowley (1980); Taylor, L. H., and Butler DeCicco and Patterson, (1979b, c, 1980e); U.S. Geol. Survey (1976a, 1980a) San Juan Basin, Butler, R. F., Lindsay, Jacobs, and John-Las Cruces 2° quadrangle, DeCicco and Patterson (1980e) son (1976, 1977); Butler, R. F., Lindsay, and Johnson Little Dog-Pup Canyon area, U.S. Geol. Survey (1980k) magnetic survey, U.S. Geol. Survey (1980k) (1979); Butler, R. F., and Taylor (1978); Lindsay, But-Mescalero-Apache area, Neher (1976) ler, and Johnson (1979); Lindsay, Jacobs, and Butler nepheline, Dollase and Thomas (1978) Orogrande, Bettis (1977) Yates Formation, Peterson, D. N. (1979) Otero Platform, Black, B. A. (1976a, b) paleontology road logs, Delgado and Pray (1977); Oppel and others acritarchs, Jones, R. E. (1976) algae, Babcock, J. A. (1979); Parks (1976c); Toomey and (1977); Pray (1977b-g); Pray and Packard (1977); Toomey and Wilson (1977); Van Wagoner (1977b); Wilson, J. Cys (1979) ammonites, Cobban (1976); Cobban and Hook (1979, L. (1977b)

Roswell 2° quadrangle, DeCicco and Patterson (1979b)

tectonics, Uphoff (1979)

1980); Hook and Cobban (1979, 1980b); Kennedy, W.

J., and Cobban (1976)

amphibians, Armstrong-Ziegler (1980); Berman, D. S., mollusks, Cobban (1977a, b); Frve and others (1978); and Reisz (1980); Blair, W. F. (1965) Hook and Cobban (1980a); Metcalf (1977, 1980) aniliid snake, Armstrong-Ziegler (1978) Ogallala Formation, Leonard, A. B. (1977); Leonard, A. arthropods, Kietzke and Kues (1979) B., and Frve (1978) Baca Formation, Schrodt (1980) Ojo Alamo Sandstone mammals, Rigby and Lucas (1977) Bishop Cap, Van Devender and Everitt (1977) osteichtyes, Berman, D. S. (1976, 1979) Bisti Badlands, Rigby and Wolberg (1980) ostracods, Toomey and Cys (1977b) brachiopods, Alexander (1980); Hook and Cobban (1977, Paleocene, Wood, C. B., and others (1979) 1980b); Isaacson and Perry (1977); Simpson, R. D., and pelycosaurs, Simpson, L. C. (1978) LeMone (1980); Simpson, R. D., LeMone, and Thompradiolarians, Cornell and Simpson (1980); Ormiston and son (1978a) Babcock (1979) bryozoans, Nye and LeMone (1978) ravens, Magish and Harris (1976) byssate scallops, Clark, G. R., II (1978) reptiles, Armstrong-Ziegler (1980); Berman, D. S. (1977); cephalopods, Flower (1976, 1977, 1978); Hook and Flower Moodie and Van Devender (1979); Preston, R. E. (1979); Sullivan, R. M. (1979); Van Devender and Worthington Chaco Canyon, Hall, S. A. (1977, 1980) (1977); Wolberg (1980a, b) Chaetetes, Spaw (1977) Sacramento Mountains, Mazzullo and Cys (1979a); Toomey Chamita Formation mammals, McFadden and Manley and others (1977) (1976)San Jose Formation vertebrates, Lucas (1977) Chihuahuan Desert, Harris, A. H. (1977) San Juan Basin coal, Kues, Froehlich, and others (1977); chrysomonad cysts, Adam and Mehringer (1980) LeMone and others (1977, 1979); Wolberg (1980a) Ciniza Lake, Ash (1978a, c-f) Santa Fe Group, Kues and Lucas (1979) clam shrimp, Tasch (1978) sauropod, Kues, Lehman, and Rigby (1980) Clovis horizon, Agenbroad (1978) shrimp, Schram and Schram (1979) coal mining and mitigation plans, Kues, Froelich, and Smeltertown formation, Nodeland and Cornell (1976); others (1977) Nye and LeMone (1978) conodonts, Behnken (1977); Burton, R. C. (1977); Clark, snails, Hall, S. A. (1980) D. L. (1979); Hung (1978); Sandberg (1976); Simpson, sponges, Toomey and Cys (1979) R. D., LeMone, and Thompson (1978b); Sweet (1977, stratigraphy, Lucas and Raza (1979); Lucas and Rigby (1979)coprolites, Weber, D. J., and Lawler (1978) stromatolites, Toomey and Cys (1977b) crabs, Kues (1980) Tempskya, Ash and Read (1976); Zeller (1976) Cretaceous, Kauffman, E. G. (1977) Tertiary, Schiebout (1979); U.S. Geol. Survey (1979); Cretaceous-Tertiary boundary, Kent, D. V. (1977) Wolf (1979) crinoids, Haugh (1978); Strimple (1980); Webster (1978, Tillodondia Esthonyx, Gingerich and Gunnell (1979) 1979) Trinidad Sandstone, Pillmore and Maberry (1976) Cutler Formation, Fracasso (1980) turkeys, Rea, A. M. (1980) dinoflagellates, Jones, R. E. (1976) Western Interior basin, Kauffman, E. G. (1977) dinosaurs, Ratkevich (1976); Wolberg (1980a) Paleozoic Eddy County, Harris, A. H. (1978); Harris, A. H., and Guadalupe Mountains, Scholle and Halley (1980) Porter (1980) Raton Basin, Roberts and others (1976) entomology, Durden (1979) Sacramento Mountains, Scholle and Halley (1980) fish, Ossian (1976) Tatum Basin, Cys (1977) floral zones, Ash (1976) Palisades sill, Cannon, R. P. (1977); Cannon, R. P., and foraminifera, Bachhuber and McClellan (1976, 1977); Ragland (1977) Conkin and Conkin (1979); Toomey and Cys (1977b) Palo Duro Basin, Handford (1980); Handford and others Fruitland Formation, Rigby and Wolberg (1980); Tidwell, (1980)Bunderson, and Parker (1980); Wolberg (1980a, c); Wolpalynology berg and LeMone (1980); Wolberg and Rigby (1980) Aquilapollenites province, Tschudy (1980) fusulinids, King, W. E., and Kelley (1980); Tyrrell and Baca Formation, Chaiffetz (1979) others (1978) Crevasse Canyon Formation, Tschudy (1976) Galisteo Formation vertebrates, Lucas and Kues (1979) Franklin Mountains, Chaiffetz (1977) gastropod geochronology, Miller, G. H., and others (1979) Percha Shale, Chaiffetz and others (1979) ground sloths, Thompson, R. S., and others (1980) Triassic Ciniza Lake, Stone, J. F. (1978) guidebook, Ratkevich and LaFon (1978) Pancho Villa State Park, Kottlowski (1980) horses, Harris and Porter (1980) Panther Seep Formation, Hair (1976, 1977) Hueco Formation, DeSimpson (1976); LeMone and Pecos greenstone belt, Robertson, J. M., Condie and Ma-Simpson (1977) thewson (1978); Robertson, J. M., and Moench (1979); Insecta: Paleodictyoptera, Kuklova-Peck and Peck (1976) Wyman, W. F. (1980b) insectivores, Krishtalka (1976a, b) Pecos River Jemez Mountains, Adam and Mehringer (1980) evapotranspiration, Gay (1979) Jurassic, general, Wright, R. P., and others (1977) irrigation and salinity, O'Connor and Cull (1977) Kirtland Shale, Wolberg (1980a, b) Malaga Bend salinity alleviation, Havens and Wilkins lagomorphs, Gawne (1976) lizards, Rickart (1977) **Pecos Valley** Madera Formation, Kues and Kietzke (1976); Tidwell and Gatuna Formation, Kelley, V. C. (1980) Ash (1980) general, Bachman (1980) mammuthus, Agenbroad (1978); Saunders (1978) hydrogeology, Spiegel (1976) McKinley County, LeMone and others (1977) Pecos Wilderness, U.S. Geol. Survey and others (1980) mice, Smartt (1977) Pedregosa Basin, Armstrong, Mamet, and Burton (1979); Mississippian, general, Dutro and others (1979) Bahlburg and Silver (1976); Elston and Erb (1980); Green-

wood (1979); Greenwood and others (1977); Jacka and

Thompson (1980); Ross, C. A. (1978); Silver, B. A., and

mollusca, bibliography, Taylor, D. W. (1980)

mollusk geochronology, Miller, G. H., and Hare (1980)

Wermiel (1976); Thompson, S., III (1980); Thompson, S., III, Tovar R. and Conley (1978, 1980); Wermiel (1978) pegmatite

Harding pegmatite, Brookins, Chakoumakos, and others (1979); Chakoumakos (1978a, b); Ewing, R. C. (1979); Fenn and Jahns (1979); Hlava (1979); Jahns and Ewing (1976); Luth (1979); Nichols, J. (1980)

Petaca mining district, North, R. M. (1979)

Peloncillo Mountains, Armstrong, Silberman, and others (1978); Erb (1979); Hoggatt and others (1977)

Peñasco uplift, Adams, R. D. (1980)

Pennsylvanian

bioherms, Toomey (1980); Wilson, J. L. (1977a); Wray (1977)

Colorado Plateau, Blakey (1978, 1980)

conodonts, Clark, D. L. (1979)

Eddy County, Gunter (1975)

entomology, Durden (1979)

general, Armstrong, Kottlowski, and others (1980)

Hidalgo County, Ross, C. A. (1978)

Lea County, Gunter (1975)

Morrowan sandstones, Hurley, T. J. (1980)

Osha Canyon Formation, DuChene and others (1977)

Pedregosa Basin, Armstrong, Mamet, and Burton (1979); Ross, C. A. (1978)

petroleum and natural gas, Greenwood and others (1977) Sangre de Cristo Mountains, Siemers, C. T. (1979)

San Juan Basin, Jentgen (1977)

Socorro County, Siemers, W. T. (1978)

Percha Formation, Kocurek (1977)

bioherms, Toomey and Cys (1979)

Percha Shale, Chaiffetz and others (1979); Kocurek and Chafetz (1977)

perlite, Austin, G. S., and Weber (1976); Naert and others (1980)

Permian

biostratigraphy, Toomey and Cys (1977b) Colorado Plateau, Blakey (1978, 1979, 1980) conodonts, Clark, D. L. (1979) *Dimetrodon*, Berman, D. S. (1977) entomology, Durden (1979) general, Baars (1979c)

Gnathorhiza, Berman, D. S. (1976, 1979)

Guadalupe Mountains, Toomey and Cys (1977a)

Hidalgo County, Ross, C. A. (1978)

Hueco Group, LeMone and Simpson (1977)

paleoecology, Toomey and Cys (1977b)

Pedregosa Basin, Ross, C. A. (1978)

San Juan Basin, Baars (1979b, c); Baars and Stevenson (1977, 1979)

southwestern New Mexico, Thompson, S., III, LeMone, and Simpson (1977)

Trimerorhachis, Berman, D. S., and Reisz (1980)

uranium, Campbell, J. A., and Steele (1976)

Permian Basin

crustal structure, Keller, G. R., Hills, and Djeddi (1980a) earthquakes, Rogers, A. M., and Malkiel (1979) evaporites, Johnson, K. S. (1980)

petroleum and natural gas, Attansi and others (1979); Coury and others (1978); Dolton, Coury, and others (1980); Dolton, Frezon, and Coury (1979); Dolton and Wunder (1978); Drew and others (1979a, b); Greenwood (1979); Greenwood and others (1977); Interagency Oil and Gas Supply Project (1980); Miller, B. M., and others (1978); Robinson, K., and others (1978); Smith, J. A. (1977); Stewart–Gordon (1978); Wright, W. F. (1979) radioactive-waste disposal, Smith, J. W. (1975)

stratigraphy, Greenwood and others (1977); Hills and Hoenig (1979)

tectonics, Djeddi (1979); Elam (1980); Hills (1980) **Permian reef complex**, *see* Capitan Limestone or reef complex

petroleum and natural gas

Arbuckle Group, Gatewood (1978)

Artesia Group, Lampert (1977)

Basin and Range province, Elston and Erb (1980)

Bell Canyon Formation, Williamson, C. R. (1978, 1979a, b, 1980a)

Blanco Mesaverde field, Hill, J. M (1978)

Chaves County, Ahlen and Havenor (1977); David, E. K. (1977a, b); Havenor (1977); Kelly, J. M. (1977); Lampert, L. M. (1977a-c); LeMay (1977b); Roswell Geological Society (1977); Scott, G. L. (1977b, 1980); Scott, G. L., and Reddy (1977); Stevens (1977a, b)

coal gasification, American Geophysical Union (1977b); Buder (1978); Lent (1980a, b); Meissner (1977)

Delaware Basin, Berg (1978); Cheeseman (1978); Hills (1979); Jacka (1979); Orr and others (1979); Williamson (1978, 1979a, b, 1980a)

Delaware Mountain Group, Berg (1979b); Cromwell (1979); Jacka (1979)

Eddy County, Ahlen (1977a); Anderson, Rod (1977a-c); Beck, R. H. (1977); Becker (1977a, b); Book (1977); Chenot (1977b); Cress (1977); David, E. K. (1977c); Engwall (1977b); Foster, R. W. (1976); Gunther (1977); Hanson (1977); Havenor (1977); Henry (1977b, c); Jons and Stanley (1976); Killough and Foster (1979); Kimbro (1977a, b); Knauf (1977); LeMay (1977a); Leonard, R. C. (1977a-c); Murphy, R. E. (1977a, b); Roswell Geological Society (1977); Stanley (1977a, b)

El Mar field, Weinmeister (1978)

enhanced recovery, Rose, K. S. (1978); Simpson, J. J (1977); Stalkup (1978)

Fort Bliss Military Reservation, Foster, R. W. (1978b) Four Corners, Baars (1979a, 1980); Crowley, C. J. (1977, 1978); Fassett and others (1978); Fassett, Thomaidis, and Matheny (1978); Matheny, M. L. (1978a); Matheny, M. L., and Talley (1978); Maxwell, N. E. (1976); Reese, D. L. (1976)

Franklin Mountains, Chaiffetz (1977)

general, Arnold, Hill, and Donaldson (1980); Arnold, Hill, Donaldson, and Foster (1977); Arnold, Hill, Donaldson, Martinez, and others (1978); Barreto (1978); Bieberman (1976); Constant and Chapelle (1978); Diemer and others (1980); Foster, R. W., Gutjahr, and Warner (1978); Gibson, W. R., and Stichtenoth (1979); Gill (1976); Johnston, R. R. (1977, 1979, 1980); Kottlowski (1977); Porter (1977); Ramey (1977, 1978, 1979); Roswell Geological Society (1977); Smith, J. A. (1976); Stout and Bradley (1980)

Guadalupe County, Budding (1980)

Guadalupe Mountains, Scholle and Halley (1980)

Hidalgo County, Cernock (1976, 1977a, b); Cernock and Bayliss (1977); Elston, Erb, and Deal (1979); Thompson, S., III (1977b, c)

Indian Draw Delaware field, Cromwell (1979)

Lea County, Ahlen (1977b-d); Alcorn (1977a, b); Barreto (1978); Becker (1977c); Blankenship (1977); Brezina (1977a, b); Carelton (1977); Colligan (1977); Cramer (1977); Crowley, Dennis (1977); Cys (1977c); Darden (1977); David, E. K., and others (1977a-c); Engwall (1977a); Foltz and Siruta (1977); Gross, M. C. (1977a, b); Harrington (1977); Havenor (1977); Henry (1977a, d, e); Hicks, C. W. (1977); Ingram (1977b, c); Johnstone (1977); Jordan (1977a, b); Keyes (1977); Kinchloe (1977); Kinchloe and David (1977); King, R. E. (1977); Lamb (1977); Metts (1977a, b); Preston, C. D. (1977a, b); Probandt (1977); Rose, K. S. (1978); Roswell Geological Society (1977); Savage, G. J. (1977a, b); Scott, G. L. (1977a); Siruta and Foltz (1977); Spencer and Hutson (1977); Stewart, W. P. (1977); Thorsen (1977); Zimmerman (1977)

McKinley County, Bircher (1978c); Black, B. A. (1978a, c-e); Bryant (1978a, b); Fassett, Thomaidis, and Math-

eny (1978); Kennedy, C. C. (1978a, c); Luce (1978a-c); Matheny, M. L., and Talley (1978); Storhaug (1978a, b); Weidler (1978a, b)

Mesaverde Formation, Towse (1980)

Mora County, Brooks, B. J., and Clark (1978)

Morrison Formation, Campbell, C. V. (1976)

Orogrande Basin, Greenwood (1979); Greenwood and others (1977)

Overthrust Belt, Woodward (1980a, b)

Paduca field, Weinmeister (1978)

Pedregosa Basin, Elston and Erb (1980); Greenwood (1979); Greenwood and others (1977); Thompson, S., III (1980); Thompson, S., III, Tovar R., and Conley (1978, 1980)

Pennsylvanian, Greenwood (1979)

Permian Basin, Attansi and others (1979); Coury and others (1978); Dolton, Coury, and others (1980); Dolton, Frezon, and Coury (1979); Dolton and Wunder (1978); Drew and others (1979a, b); Greenwood (1979); Greenwood and others (1977); Interagency Oil and Gas Supply Project (1980); Miller, B. M., and others (1978); Robinson, K., and others (1978); Smith, J. A. (1977); Stewart–Gordon (1978); Wright, W. F. (1979)

Pictured Cliffs Sandstone, Jacobs, J. L. (1977)

Point Lookout Sandstone, Hunter (1979)

Raton Basin, Speer (1976)

reservoir simulation, Killough and Foster (1979)

Rio Arriba County, Attebery (1978); Beach and Thomas (1978); Brown, C. F. (1978b-f, i); Brown, H. H. (1978d); Conyers (1978); Dunn (1978a, b); Fassett and Jentgen (1978a-c); Fassett, Thomaidis, and Matheny (1978); Folk, J. K. (1978); Greer (1978b, c); Harris, J. J. (1978); Hill, J. M. (1978); Hoppe (1978c, f, g); Malone (1978h); Matheny, J. P. (1978); Matheny, M. L. (1978d); Matheny, M. L., and Folk (1978); Matheny, M. L., and Matheny (1978b, g); Matheny, M. L., and Talley (1978); Needdham (1978a, b); Pritchard (1978a, d); Reese, V. R. (1978a, c)

Roosevelt County, Carelton (1977); Chenot (1977a); Cys (1977b); Havenor (1977); Ingram (1977a); Roswell Geological Society (1977); Sandlin and Schatz (1980); Scott, G. L. (1980); Smith, G. (1977)

Sacramento Mountains, Scholle and Halley (1980)

Sandoval County, Beach and Thomas (1978); Black, B. A. (1979d); Brown, C. F. (1978b, e); Campbell, J. P. (1978); Fassett, Thomaidis, and Matheny (1978); Gray (1978); Harris, J. J. (1978); Hoppe (1978c); Kennedy, C. C. (1978b); Matheny, M. L., and Talley (1978); Pritchard (1978f-i); Reese, V. R. (1978b-f); Sharrock (1978)

San Juan Basin, Berg (1979a); Bryant (1980); Buckner (1976); Dugan (1977); Fassett and Hinds (1977); Fassett and others (1978); Fassett, Thomaidis, and Matheny (1978); Gorham, F. D., Jr., and others (1977, 1979); Kraft and John (1979); Luetkehans (1976); Mallory (1977a, b); Martinez, L. B. (1978); Masters (1979); Matheny, M. L. (1978a); Matheny, M. L., and Talley (1978); Maxwell, N. E. (1976); Molenaar (1977a, b); New Mexico Oil and Gas Conservation Commission (1977); Owen (1980); Parker, J. M., and others (1977); Picard (1980); Ross, L. M., and Harwood (1979); Rusen (1977); Ryder and others (1980); Tabet (1977b); Thompson, K. F. M. (1980); Woolfson (1977)

San Juan County, Babcock, G. (1978); Bircher (1978a, b); Black, B. A. (1978b); Bowman (1978a, b); Brown, C. F. (1978a-c, e, g, h); Brown, H. H. (1978a-c); Bryant (1978c); Collins (1978); Conlon (1978a, b); Dugan and Fagrelius (1978a-g); Dunn (1978c-e); Fagrelius (1978a-c); Fagrelius and Jacobs (1978b); Fassett, Thomaidis, and Matheny (1978); Garvin (1978); Greer (1978a); Hamilton, D. P. (1978a-c); Harris, J. J. (1978); Hoppe (1978a-f); Hopson (1978); Hornbeck (1978); Jacobs, J.

L. (1978); Jacobs, J. L., and Fagrelius (1978a, b); Kendrick and Dugan (1978); Lauth (1978a-c); Malone (1978ag); McEachin and Royce (1978); Matheny, M. L. (1978ac, e, f); Matheny, M. L., and Little (1978a-c); Matheny, M. L., and Matheny (1978a, c-f); Matheny, M. L., and Talley (1978); Maynard (1978a-e); Pritchard (1978a-c. e); Reese, V. R. (1978a); Riggs (1978a-e); Sabins (1978); Spencer, C. W. (1978a, b); Stevenson (1978); Stevenson and Matheny (1978); Tezak (1978a, b) Santa Fe County, Black, B. A. (1979a, d) Santa Rosa Sandstone, Brimhall (1978); Budding (1980) seismology, Jones, B., and McMillan (1977) Sierra County, Cernock (1977c); Cunningham, C. P. (1978) Socorro County, Chapin, Osburn, and others (1979) southeastern New Mexico, Havenor (1977); Roswell Geological Society (1977) southwestern New Mexico, Thompson, S., III (1977a): Washington Ranch Morrow field, Miller, F. (1980) White Sands Missile Range, Foster, R. W. (1978b)

petrology

Abiquiu Tuff, Vazzana (1980); Vazzana and Ingersoll (1980) Albuquerque Basin andesites, Kasten, J. A. (1977) Aleman Formation, Geeslin (1980)

Animas Mountains, Erb (1979)

Arroyo Peñasco collapse breccia, Vaughan (1978); Vaughan and Meyers (1976); Williamson, T. F. (1978)

Baca Formation, Cather (1980)

Bandera Crater, Gallagher (1973)

Bear Mountain intrusive, Peterson, H. W. (1979); Peterson, H. W., and Norman (1980)

Bosque Peak 71/2' quadrangle, Edwards, D. L. (1978) Carlsbad Caverns, Kendall and Broughton (1977)

Cat Hills volcanics, Baldridge, Perry, and Gladney (1980); Renault (1978b)

Cerro de Los Lunas, Renault (1978b)

Chuska Sandstone, Trevena and Nash (1978a)

Dixon-Peñasco Precambrian, Long, P. E. (1976); Long, P. E., and Jahns (1976); Long, P. E., and Luth (1979) Glorieta Sandstone, Milner (1978)

Green Knobs diatreme, Smith, D. L., and Levy (1976) Harding pegmatite, Cook, C. W. (1979); Nichols (1980) Hidalgo County, Budding and Broadhead (1977a, c)

hot dry rock project, Laughlin and Eddy (1976)

John Kerr Peak dome complex, Smith, E. I. (1976) Ladron Mountains, Cookro (1978)

Lake Valley Limestone, Oglesby, Meyers, and Lohmann (1979)

Lucero volcanic field, Baldridge, Perry, and Gladney (1980) Mogollon–Datil volcanic field, Rhodes (1976b)

Navajo Indian Reservation, Stone, W. J., Brod, and Anderholm (1978); Stone, W. J., and Jackson (1980)

Navajo volcanic field, Ehrenberg (1978, 1979); Ehrenberg and Griffen (1979)

Organ cauldron, Macer (1978)

Palisades sill, Cannon, R. P. (1977); Cannon, R. P., and Ragland (1977)

Peloncillo Mountains, Erb (1979)

Percha Formation, Kocurek (1977)

porphyry copper, Nash (1976)

Rio Arriba County, Broomfield (1977)

Rio Grande rift, Baldridge (1976, 1977, 1978, 1979a-c); Reid, J. B. (1976)

San Andres Formation, Milner (1976)

Sandia Mountains, Affholder (1979); Enz and others (1979) sandstone copper deposits, LaPoint (1979)

Sangre de Cristo Mountains, Siemers, C. T. (1979)

San Juan Basin, Stone, W. J. (1979b)

Sierra Blanca igneous complex, Black, K. D. (1977b)

Socorro County, Siemers, W. T. (1978)

Taos Plateau volcanic field olivine tholeiite, Lofgren (1979) Tetilla Peak, Zimmerman, C. J., and Kudo (1979a) Tewa Group, Prigmore (1978) Tijeras greenstone, Condie (1980b)

others (1979)

D. L. (1978a, b)

Jemez Mountains, Solomon and Kerrick (1976)

Lemitar Mountains, McLemore (1980a-c)

Los Pinos Mountains, Beers (1976)

Ladron Mountains, Condie (1976); Cookro (1978); White,

Las Tablas-La Madera 71/2' quadrangles, Gresens (1976)

topaz rhyolites, Christiansen, E. H., and others (1980) Manzano Mountains, White, D. L. (1978a, b) Trans-Pecos magnetic province, Barker, D. S., Long, mineralization, Giles (1976) and others (1977) Nacimiento uplift, Woodward, McLelland, and Husler Wind Mountain volcanics, Renault (1978b) Pictured Cliffs Sandstone, Erpenbeck and Flores (1979); northeastern New Mexico, Callender, Robertson, and Fassett (1977b); Flores (1979, 1980); Jacobs, J. L. (1977) Brookins (1976) Picuris Range, Gresens (1976); Gresens and Stensrud (1977); Ojita pluton, White, D. L. (1978a, b) Heinrich (1980); Holdaway (1978); Muehlberger (1978); Pecos mining district, Riesmeyer (1978) Nielsen, K. C., and Scott (1979) petrology, Laughlin and Eddy (1976) Pierre Shale, Cobban (1976) Picuris Range, Gresens (1976); Heinrich (1980); Nielsen, Pinos granite, Brookins, Bolton, and Condie (1980) K. C., and Scott (1979) Pleistocene Rio Arriba County, Treimain (1977, 1978) Lake Trinity, Neal (1976) Sandia Mountains, Berkeley and Callender (1979); mice, Smartt (1977) Berkeley, Callender, and Keil (1976); Bolton (1976); Point Lookout Sandstone, see Mesaverde Group Kasten, T. A. (1980) Pojaque Basin Sangre de Cristo Mountains, Wyman, W. F. (1980a) hydrology, Balch and Clark (1978) San Miguel County, Riesmeyer and Robertson (1979) pollution Sierra Oscura, White, D. L. (1978a, b) Ambrosia Lake uranium district, Purtymun, Dreesen, and structure, Allan and Swan (1978); Jurdy (1978) Taos County, Kirschner (1979); Treimain (1977, 1978) Wienke (1977) asbestiform fibers, Oliver, T., and Murr (1977) Taos Range, Condie (1979) coal, Cannon, H. L., and Swanson (1979); Cook, F. tectonics, Condie (1980a) (1979); Kelly, W. (1979) Tijeras greenstone, Condie (1980b) Four Corners Power Plant, Environmental Science and Trans-Pecos region, Denison (1980) Technology (1977); Wangen and Wienke (1978) trondhjemites, Barker, F., Arth, and others (1976); Bargeneral, Kaufman, E. L., and Siciliano (1980) ker, F., Friedman, and others (1976); Glickson (1979) Grants uranium district, Brandvold, L. A., and others Truchas Range, Grambling (1978, 1979a-c) (1980); Environmental Protection Agency (1977); Mar-Tusas Mountain area, Kent, S. C. (1980) ple (1979); Marple and others (1978); Townsend (1979) Priest quartz monzonite, Bolton (1976); Brookins, Bolton, hot dry rock geothermal project, Pettitt (1976); Pettitt and and Condie (1980) West (1978) Proterozoic Los Alamos County, Hakonson and others (1976, 1980); magmatic rocks, Babcock, R. S. (1979) Purtymun, Buchholz, and Hakonson (1977) pseudobrookite, Lufkin (1976) Ogallala aquifer, Taylor, R. G., and others (1978) Puye Formation, see Santa Fe Group Santa Fe ski area, Moore, D. I., and others (1978) Pyramid Mountains, Thorman and Drewes (1978a) sulfur, Winchester, J. W., and Ferek (1979) quartz, multiple Japan-law twins, Taggart and Grigsby (1976) Popotosa Formation, Brenner–Tourtelot and Machette (1979) quartzite, Borton (1979a) Portales Valley, see Roosevelt County Quaternary Basin and Range province, Hawley, Bachman, and Man-Carlsbad potash district, Aguilar and others (1976); Ellet ley (1976) (1978); John and others (1978); U.S. Geol. Survey Bernalillo County, Lambert, P. W. (1978a) (1979f); Wynne (1978) Great Plains Province, Hawley, Bachman, and Manley general, Austin, G. S. (1976, 1978); Austin, G. S., and Whyte (1976) Ladron Mountains, Callender and Zilinski (1976) production, Case (1978); McNaughton (1978) Lake Animas, Fleischhauer (1977b, 1978) Potrillo Basalt field, Berman, R. G., and Reid (1976); Lucero uplift, Callender and Zilinski (1976) mammuthus, Agenbroad (1978); Saunders (1978) Bersch (1977); Hoffer (1976a, b) Potrillo Mountains, Jenkins, D. A. (1977) Rio Grande rift stratigraphy, Hawley (1978d) Precambrian San Juan Basin, Schultz (1980) Abo Pass, Jurdy (1978) soil formation, Shroba (1977) bibliography, Robertson, J. M. (1976a) southern High Plains, Reeves (1976) Bosque Peak 71/2' quadrangle, Edwards, D. L. (1978) **Ouay County** Cow Creek ultramafic complex, Wyman, W. F. (1980b) Clovis 2° quadrangle, DeCicco and Patterson (1980c); crust, Condie and Brookins (1980) Texas Bureau of Economic Geology (1978); U.S. Geol. Dixon-Peñasco area, Long, P. E. (1976); Long, P. E., Survey (1980e) and Jahns (1976); Long, P. E., and Luth (1979) Fort Sumner 2° quadrangle, DeCicco and Patterson (1980g) general, Condie and Budding (1979); Robertson, J. M., land classification map, DeCicco and Patterson (1980c, Callender, and Brookins (1976) g, h); U.S. Geol. Survey (1980e, g) geochemistry, Laughlin and Eddy (1976) Tucumcari 2° quadrangle, DeCicco and Patterson (1980h); geochronology, Brookins, Bolton, and Condie (1980); U.S. Geol. Survey (1980g) Brookins, Della Valle, and Lee (1978a); Robertson, J. uranium, Finch and others (1976) M., Callender, and Brookins (1976); White, D. L. (1978a, Queen Formation, see Artesia Group b. 1979) radioactive-waste disposal, Anderson, R. Y., and Kirkland granites, Condie (1978) (1979, 1980); Balestri and others (1979); Barr and Gon-Hell Canyon greenstone belt, Woodward, Parchman, and zalez (1980); Brannen (1979); Costin and Wawersik (1980);

Magdalena Mountains, White, D. L. (1978a, b)

Dosch (1979); Elliot (1976); Foster, R. W., Austin, and

others (1977); Fried and others (1978); Glanzman (1980);

Gonzales, J. L., and Jones (1979a, b); Gonzales, Serge,

and Johnson (1980); Herkenhoff and Associates and Sum-

mers and Associates (1977); Hern (1979); Hern and Elliot

(1978); Hill, L. R. (1979); Hinkebein and Hlava (1979);

Hunter, T. O. (1979); John and others (1978); Johnson,

K. S., and others (1978); Jones, C. L. (1978); Jones, C. L., and McIntyre (1979); Kosocki and others (1978); Krieg and Hunter (1980); Lynch (1979); Mansure and Reiter (1977); Mercer and Orr (1978, 1979); Nowak (1978); Nvhan, Miera, and Peters (1976); Olhoeft (1978); Piper (1974); Powers, D. W. (1979); Powers, D. W., and Shaffer (1979ac); Powers, D. W., and Weart (1979); Purtymun, Rogers, and Wheeler (1980); Roedder and Belkin (1979); Rogers. M. A., Christie, and Budding (1980); Rosholt and McKinney (1980); Sandia Laboratories and U.S. Geol. Survey (1979ad); Sanford and others (1978, 1980); Schmoker (1980); Scully (1979); Shaffer (1979a-d); Siemers, W. T., and others (1978); Smith, J. W. (1975); Snyder, R. P., and McIntyre (1979); Statler and Seward (1979a-h); Szabo and Gottschall (1980); Taggart and Renault (1977); Warren, J. L. (1980); Weart and Powers (1980); Weisner and others (1980) radionuclides

Waste Isolation Pilot Plant site, Dosch (1979)

radium

mineral springs, Felmlee and Cadigan (1978)

pollution and vegetation, Marple (1979); Marple and others (1978)

radon, Fleischer (1980); Fleischer, Hart, and Mogro-Campero (1980); Fleischer and Mogro-Campero (1979a, b); Geotimes (1980); Schery and others (1980); Van Cleave (1976)

raiite, Williams, S. A. (1979)

Rancheria Formation, Lane and DeKeyser (1979); Meyers (1978, 1980); Yurewicz (1977a, b)

rare earths, Brookins and Della Valle (1979); Brookins, Della Valle, and Balagna (1979); Brookins, Della Valle, and Lee (1978b); Brookins, Lee, and Riese (1977); Brookins, Riese, and Lee (1977); Della Valle and Brookins (1980b); Dreesen and others (1978); Modreski (1979); Phelps, Blanchard, and others (1979); Phelps, Blanchard, and Stormer (1980); Reid, J. B., and Frey (1978)

RARE II areas, Maxwell, C. H. (1978)

Raton Basin

coal, Amuedo and Bryson (1977); Bohor and Pillmore (1976); Jurich (1980); Meissner (1977); Pillmore (1976d, e); Pillmore and Hatch (1976)

Cretaceous, Ash and Tidwell (1976); Fassett (1976) Dakota Sandstone, Asquith and Gilbert (1976)

gamma ray and magnetic survey, Geometrics (1979b) Paleocene, Ash and Tidwell (1976)

Paleocene, Ash and Tidwell (1976) Paleozoic, Roberts and others (1976)

petroleum and natural gas, Speer (1976)

road logs, Pillmore (1976a, 1980a, b)

tectonics, Woodward and Snyder (1976a, b)

Trinidad Sandstone, Pillmore and Maberry (1976) Vermejo Formation, Flores (1980)

Raton Formation, Roehler and Danilchik (1980)

Recapture Shale Member, see Morrison Formation

Red Mountain Dacite, David, W. P., and others (1980); Phelps, Blanchard, and others (1979); Phelps, Blanchard, and Stormer (1980)

Redondo Peak, Dimitrijevich and others (1976)

Red Tanks Member, see Madera Formation

remote sensing, Anderson, J. R., and others (1976); Colvocoresses (1979); Ebert Satellite Corporation (1979); Ebert and Gutierrez (1979); Everett and others (1978); Feldman and others (1974); Fischer, W. A. and others (1978); Gableman (1978); Inglis and others (1978); Knepper (1978); Lyons and others (1976); Neal (1978); Sheffer and others (1978); Tabet and others (1976); Zech and Knepper (1979) Riley maar, Saito, Menzies, and others (1978); Schwartz and Irving (1978)

Rinconada formation, Barrett and Kirschner (1979)

Rio Arriba County

Abiquiu, U.S. Geol. Survey (1976b)

Arroyo del Agua 71/2' quadrangle, Ridgley (1979b, c) Aztec 2º quadrangle, DeCicco, Patterson, and Lutz (1978b); Geodata International (1980); Manley and Scott (1978) Ballard Pictured Cliffs field, Brown, C. F. (1978b) Basin Dakota field, Hoppe (1978c) Blanco Mesaverde field, Hill, J. M. (1978); Pritchard

(1978a) Blanco Pictured Cliffs east field, Brown, C. F. (1978d)

Blanco Pictured Cliffs field, Brown, C. F. (1978c) Blanco Pictured Cliffs south field, Brown, C. F. (1978e) Blanco Tocito south field, Fassett and Jentgen (1978a)

Boulder Mancos field, Needham (1978a) B S Mesa field, Matheny, M. L., and Matheny (1978b) Cañones, Broomfield (1977)

Capulin, Hart, D. L., Jr., and Smith (1979a, b)

Cerro del Grant area, Lawrence (1979)

Chacon Dakota field, Beach and Thomas (1978)

Choza Mesa Pictured Cliffs field, Brown, C. F. (1978f) coal, Dames and Moore (1979b, c, z, aa, ff-hh, jj-ll, uu, mmm)

copper, Timmer (1976)

Counselor 71/2' quadrangle, Dames and Moore (1979c)

Cuba 7¹/₂' quadrangle, Anderholm (1979) Devils Fork Gallup field, Dunn (1978a)

Devils Fork Mesaverde field, Dunn (1978b)

Dixon, Steinpress (1980)

Dixon-Peñasco Precambrian, Long, P. E. (1976); Long, P. E., and Jahns (1976); Long, P. E., and Luth (1979) Dulce, Herrman and others (1980); Herrman and Park (1979); Hoffman and Northrup (1977)

Embudo, Moss and others (1978)

Escrito Gallup field, Reese, V. R. (1978a)

Gallina 71/2' quadrangle, Gibson, G. G. (1975); Woodward, Gibson, and McLelland (1976)

Gavilan Pictured Cliffs field, Conyers (1978)

Gobernador Pictured Cliffs field, Matheny, M. L. (1978d) Gonzales Mesaverde field, Pritchard (1978d)

Gould Pass 15' quadrangle, NE corner, Dames and Moore (1979uu)

Gould Pass SE $7^{1/2}$ ' quadrangle, Dames and Moore (1979gg)

Gould Pass SW 71/2' quadrangle, Dames and Moore (1979ff)

ground water, Hart, D. L., Jr., and Smith (1979a, b) guidebook, Ingersoll (1979c); Ingersoll and Woodward (1979)

hydrology, Anderholm (1979); Moss and others (1978) Jarosa 7¹/₂' quadrangle, Timmer (1976); Woodward and Timmer (1979)

La Jara Fruitland field, Malone (1978h)

land classification map, DeCicco, Patterson, and Lutz (1978b, d, 1980)

Largo Chacra field, Hoppe (1978f)

Largo Gallup field, Fassett and Jentgen (1978b)

Las Tablas–La Madera 7¹/₂' quadrangles, Gresens (1976) Lindrith Gallup–Dakota west field, Attebery (1978)

Llaves 7¹/₂' quadrangle, Dames and Moore (1979z) Lybrook Gallup field, Reese, V. R. (1978c)

Lybrook 71/2' quadragle, Dames and Moore (1979b)

magnetic survey, U.S. Geol. Survey (1976b) Nageezi 15' quadrangle, SW corner, Dames and Moore

(1979kk) Nageezi NW 71/2' quadrangle, Dames and Moore (1979jj)

Nageezi NW 71/2' quadrangle, Dames and Moore (1979jj) Nageezi SE 71/2' quadrangle, Dames and Moore (1979nnn) Ojito Dakota field, Folk, J. K. (1978)

Ojito Gallup field, Matheny, M. L., and Folk (1978) Ojo Caliente-Rio Chama Neogene, May (1979)

Ojo Caliente 71/2' quadrangle, Treimain (1977, 1978)

Ojo Caliente tuff ring, May (1977) Otero Chacra field, Hoppe (1978g)

Otero Gallup field, Brown, H. H. (1978d)

Otero Pictured Cliffs field, Harris, J. J. (1978)

Petaca mining district, North, R. W. (1979)

petroleum and natural gas, Fassett, Thomaidis, and Matheny (1978); Hill, J. M. (1978); Matheny, M. L., and Talley (1978)

Pine River 71/2' quadrangle, Dames and Moore (1979mmm) Precambrian, Gresens (1976)

Puerto Chiquito Mancos east field, Greer (1978b)

Puerto Chiquito Mancos west field, Greer (1978c)

Raton 2° quadrangle, DeCicco, Patterson, and Lutz (1978d, 1980); Morgan, T. L., and Broxton (1978)

Regina 71/2' quadrangle, Dames and Moore (1979aa);

Regina 71/2' quadrangle, Dames and Moore (1979aa); Merrick (1980)

road logs, Budding, Robertson, and others (1979); Fassett, Black, and others (1977); Fassett, Jentgen, and others (1977); Hawley (1978b); Hawley, Burroughs, and others (1978); Lipman (1978); Muehlberger and Hawley (1978)

San Antonio Mountain, Brookins, Eppler, and Elston (1977); Eppler (1976)

Santos Peak 7¹/₂' quadrangle, Dames and Moore (1979hh) Schmitz Torreon–Puerco field, Needham (1978b)

Tafoya Canyon 71/2' quadrangle, Dames and Moore (1979ll) Tapacito Gallup field, Fassett and Jentgen (1978c)

Tapacito Gallup field, Passett and Jeffgen (1978c)
Tapacito Pictured Cliffs field, Brown, C. F. (1978i)

Tusas Mountain area, Kent, S. C. (1980)

Wildhorse Dakota field (oil), Matheny, J. P. (1978) Wildhorse Gallup field (gas), Matheny, M. L., and Matheny (1978g)

Rio Grande

aquifers, Day (1978)

general, Belcher and Galloway (1977); Brackenridge (1976); Dewey and others (1979); International Boundary and Water Commission (1976); Moss and others (1978); New Mexico Water Quality Control Commission (1976); Smith, R. W., and Popp (1980); Water Resources Engineers (1976)

salt cedar, Gay and Fritschen (1979)

sedimentary structures, Harms and Fahnestock (1977) trace metals, Dauchy and Brandvold (1976); Popp and Laquer (1980)

Rio Grande basin

geochronology, Stearns (1979)

geomorphology, Bachman and Mehnert (1978); Stearns (1979)

geothermal energy, Kleeman and Savage (1977) ground water, Wilson, White, and Roybal (1979b)

Tertiary sedimentation and tectonics, McDonald (1976)

Rio Grande rift

Abiquiu embayment, Wilson, J. E. (1977)

Albuquerque, Kelley, V. C. (1978b, c); Kelley, V. C., Woodward, and others (1976)

andesites, Zimmerman, C. J. (1979); Zimmerman, C. J., and Kudo (1978, 1979b)

basalt, Baldridge (1977); Menzies and Murthy (1980); Renault (1978a, b)

Bouguer gravity anomaly, Aiken (1977, 1978); Birch (1980); Cordell, L. (1976a, d, 1978a, c, 1979a, b); Cordell, L., and Detmering–Beal (1978); Cordell, L., Keller, and Hildenbrand (1978); Decker and Smithson (1977); Ramberg and others (1978)

Chihuahua tectonic belt, Gries (1977, 1979); Smith, D. L., and Jones (1978a, b)

crustal structure, Ander (1980); Baldridge (1977); Brown, L. D., Brewer, and others (1978); Brown, L. D., Chapin, and others (1980); Brown, L. D., Kaufman, and others (1979); Brown, L. D., Kaufman, and Oliver (1977); Cape and others (1980); Jurdy (1979); Jurdy and Brocher (1980); Keller, G. R., and Braile (1979); Keller, G. R., Braile, and Schlue (1979); Keller, G. R., and Lowrey (1976); Long, G. H., and others (1977); McCullar (1977); Murdock and Jaksha (1980); Oliver, J. E. (1978); Oliver, J. E., and Kaufman (1976); Oliver, J. E., and others (1976); Olsen, K. H., Keller, and Stewart (1979); Olsen, K. H., and Stewart (1979); Rinehart, E. J. (1979a, b); Rinehart, E. J., and Sanford (1980); Rinehart, E. J., and Others (1979); Spence, W., Gross, and Jaksha (1979);

Spence, W., and Jaksha (1978); Toppozada and Sanford (1976); Warren, R. G. (1978, 1979); Warren, R. G., and others (1978); Woodward (1977)

Engle Basin, Warren, R. G. (1978, 1979); Warren, R. G., and others (1978)

Española Basin, Bridwell (1978); Cordell, L. (1979a); Manley (1976c, 1978a-c, e, 1979a); Reilinger, Brown, and others (1979); Reilinger and York (1979) fluorite, Van Alstine (1976)

general, Axelrod and Bailey (1976); Baldridge (1976); Baltz (1978); Bridwell (1977); Bridwell and Anderson (1980); Burke (1978); Callender, Woodward, and Kelley (1976); Chapin (1976, 1978a, 1979a); Cordell, L. (1976c, 1978b, d, 1979b); Elston (1977); Foster, R. W. (1978a) Keller, G. R., Graham, and Roy (1978); Ramberg (1978); Sales (1978); Seager and Morgan (1979); Tweto (1979) geochronology, Bachman and Mehnert (1978); Baldridge, Damon, and others (1980); Brookins (1977b); Everson and Silver (1978); Stearns (1979)

geothermal energy, Harder and others (1980); Kleeman and Savage (1977); Rona (1977); Trainer and Lyford (1979)

guidebook, Hawley (1978a); Olsen, K. H., and Chapin (1978); Riecker (1979)

heat flow, Bridwell (1976); Bridwell and Baldridge (1976); Cook, F. A., and others (1978); Decker and Smithson (1977); Huestis (1979); Lohse and others (1980); Reid, J. B. (1976); Reiter, M. A. (1976); Reiter, M. A., Edwards, Mansure, and Shearer (1978); Reiter, M. A., Edwards, Shearer, McGrath, and Mansure (1976); Reiter, M. A., Mansure, and Shearer (1979a); Reiter, M. A., and Shearer (1980); Reiter, M. A., Shearer, and Edwards (1978); Smith, D. L., and Jones (1978)

Jemez Mountains, Smith, R. L., and Bailey (1978) La Jencia Basin, Brown, L. D., Allmendinger, and others (1980)

Lemitar Mountains, Chamberlin (1976, 1978)

magma bodies, Brocher (1978, 1979a, b); Brown, L. D., Krumhansl, Cook, and Kaufman (1978); Caravella (1976); Fender (1978); Fischer, J. A. (1977) Frishman (1979); Hardee and Luth (1980); Hermance and Pederson (1978); Reilinger and Oliver (1976); Reilinger, Oliver, Brown, and others (1979); Reilinger, Oliver, and others (1980); Reilinger and York (1979); Riecker (1979); Towle (1980b) magnetics, Cordell, L. (1976a); Mayhew (1979); Towle (1978, 1979, 1980a); Wasilewski and Padovani (1980) magnetotelluric survey, Hermance and Pedersen (1980); Jiracek, Ander, and Holcombe (1979a, b); Jiracek, Ander, and Reddy (1978); Pedersen (1980); Pedersen and others (1979)

mantle, Ander (1980); Bridwell (1976, 1978); Brown, L. D., Kaufman, and others (1979); Brown, L. D., Kaufman, and Oliver (1977); McCullar (1977); Oliver, J. E. (1978); Oliver, J. E., and Kaufman (1976); Oliver, J. E., and others (1976); Reid, J. B. (1976, 1978); Reid, J. B., Bateman, and others (1977); Reid, J. B., and Frey (1978); Reid, J. B., and Woods (1978a, b); Warren, R. G. (1978, 1979); Warren, R. G., and others (1978) Mesilla Valley fault zone, Lovejoy (1976d)

ore deposit, Putnam (1980)

Pajarito fault zone, Golombek (1980)

remote sensing, Knepper (1978)

resistivity, Jiracek, Ander, and Holcombe (1979b); Jiracek and others (1976); Shankland (1978); Smith, C. S. (1976)

Sandia uplift, Kelley, V. C. (1978d)

sedimentation, Cordell, L. (1979b); Kottlowski (1976) seismology, Brocher (1978, 1979a, b, 1980); Brown, L. D., Brewer, and others (1977); Brown, L. D., Chapin, and others (1980); Brown, L. D., Kaufman, and others (1979); Brown, L. D., Kaufman, and Oliver (1977); Brown, L. D., Krumhansl, Chapin, and others (1979); Brown, L. D., Krumhansl, Cook, and Kaufman (1978);

Brown, L. D., Krumhansl, Cook, and others (1978); Davis, T. L., and Stoughton (1979); Johnston, J. A. (1978); Jurdy (1979); Jurdy and Brocher (1980); Kaufman, S., and Oliver (1977); Keller, G. R., and Braile (1979); Keller, G. R., Braile, and Schlue (1979); Murdock and Jaksha (1978, 1980); Oliver, J. E. (1978); Oliver, J. E., and Kaufman (1976); Oliver, J. E., and others (1976); Olsen, K. H., Keller, and Stewart (1979); Olsen, K. H., Keller, Stewart, and others (1977); Olsen, K. H., and Stewart (1979); Ottolini (1978); Sanford and Oliver (1977); Sanford, Olsen, and Jaksha (1979); Savage, J. C., and others (1979, 1980); Schilt and others (1978); Smithson and McCullar (1977); Spence, W., Gross, and Jaksha (1979); Spence, W., and Jaksha (1978); Ward, R. W., and Nation (1979); Ward, R. W., and Sengupta (1977)

Socorro County, Sanford (1978a); Sanford and Schlue (1979)

southern New Mexico, Seager (1977)

stratigraphy, Hawley (1978d, e)

Taos Plateau volcanics, Williams, S., and Murthy (1978) tectonics, Baldridge (1979d); Baldridge and others (1980); Bridwell (1976); Brown, L. D., Miesen, and others (1980); Chapin (1979b); Eaton (1979a); Elston and Bornhorst (1978, 1979); Kelley, V. C. (1979a); Livaccari (1979); Lovejoy (1976d); Mutschler and others (1978); Reilinger, Brown, and Jurkowski (1980); Reilinger and York (1978); Riecker (1979); Woodward (1977); Woodward and Callender (1977b); Woodward, Callender, and others (1978); Woodward and Ingersoll (1979)

Trans-Pecos, Keller, G. R., and Covert (1977)

Trans-Pecos magmatic province, Barker, D. S. (1979a) volcanism, Kudo (1976b); Mutschler and others (1978); Stormer (1978)

Rio Ojo Caliente, Wenrich-Verbeek (1977, 1978, 1979a, b); Wenrich-Verbeek and Suits (1979a, b)

Rio Puerco, Aldon (1976); Shepherd (1976); Shepherd and Macke (1978)

Rio Puerco fault zone, Callender and Zilinski (1976); Lucas (1980); Slack and Campbell (1976)

road logs

Bernalillo County, Hawley (1978c); Hawley, Chapin, Chamberlin, and others (1978); Lambert, P. W. (1976, 1978a); Saucier (1979); Woodward, Ingersoll, Fitch, and others (1979)

Capitan Limestone or reef complex, Babcock, J. A., and others (1977a, b)

Catron County, Bornhorst and Elston (1978); Clemons, Christiansen, and James (1980); Coney and Elston (1978a, b); Elston (1978a); Ratte and Finnell (1978)

Cibola County, Saucier (1979)

Colfax County, Lessard (1976); Pillmore (1976a, b, 1980a, b)

Doña Ana County, Clemons, Christiansen, and James (1980); Clemons and Seager (1978); Hawley, Lovejoy, and others (1978); Hawley and Seager (1978); Seager (1978a)

Eddy County, Esteban and Pray (1977a-e); Pray and Sarg (1977); Sarg (1977); Yurewicz (1977e)

Grant County, Clemons, Christiansen, and James (1980); Clemons and Seager (1978); Elston (1978a); Ratte (1978a) Ratte and Finnell (1978); Seager, Clemons, and Elston (1978)

Hidalgo County, Clemons, Christiansen, and James (1980); Keith and Wilt (1978); Keith, Wilt, and others (1978) Jemez Mountains, Bailey and Smith (1978)

Luna County, Clemons, Christiansen, and James (1980); Clemons and Seager (1978)

McKinley County, Fassett, Jentgen, and others (1977); Fassett, Molenaar, and others (1979); Saucier (1979)

Mora County, Lessard (1976)

Otero County, Delgado and Pray (1977); Oppel and others (1977); Pray (1977b-g); Pray and Packard (1977); Toomey

and Wilson (1977); Van Wagoner (1977b); Wilson, J. L. (1977b)

Rio Árriba County, Budding, Robertson, and others (1979); Fassett, Black, and others (1977); Fassett, Jentgen, and others (1977); Hawley (1978b); Hawley, Burroughs, and others (1978); Lipman (1978); Muehlberger and Hawley (1978)

Sandoval County, Black B. A. (1979b); Fassett, Jentgen, and others (1977); Hawley, Chapin, Chamberlin, and others (1978); Hawley and Galusha (1978); Hawley and Kottlowski (1978); Lambert, P. W. (1978a); Woodward, Ingersoll, Fitch, and others (1979)

San Juan County, Fassett, Black, and others (1977); Fassett, Molenaar, and others (1977)

San Miguel County, Budding (1979); Lessard (1976); Robertson, J. M., Budding, and others (1979)

Santa Fe County, Black, B. A. (1979b) Budding (1979); Budding, Robertson, and others (1979); Hawley (1978b); Hawley, Burroughs, and others (1978); Hawley, Chapin, Chamberlin, and others (1978); Hawley and Kottlowski (1978); Robertson, J. M., Budding, and others (1979); Woodward, Ingersoll, Fitch, and Hutchinson (1979a, b); Woodward, Ingersoll, Fitch, and others (1979)

Sierra County, Chapin, Jahns, and others (1978); Hawley, Chapin, and Osburn (1978); Hawley, Lovejoy, and others (1978); Hawley and Seager (1978); Seager, Clemons, and Elston (1978); Thompson, S., III (1978)

Socorro County, Bornhorst and Elston (1978); Chapin, Chamberlin, and Hawley (1978); Chapin, Jahns, and others (1978); Hawley (1978c); Hawley, Chapin, Chamberlin, and others (1978); Hawley, Chapin, and Osburn (1978); Hawley, Lovejoy, and others (1978)

Taos County, Budding, Robertson, and others (1979); Hawley, Burroughs, and others (1978); Lipman (1978); Muehlberger and Hawley (1978)

Valencia County, Hawley (1978c); Hawley, Chapin, Chamberlin, and others (1978); Saucier (1979b)

Robledo Mountains, DeSimpson (1976)

Rock Hound State Park, Weber, R. H. (1980b)

Rocky Mountains

Chinle Formation, Kurtz (1978b)
coal, Hodgson (1978)
crustal structure, Keller, G. R., and Braile (1979)
general, Larkin and others (1980)
geologic hazards, Colton (1979)
gravity, Drake (1979)
Nacimiento uplift, Woodward (1978)
river system development, Lovejoy (1976c)
tectonics, Baltz (1979); Chapin (1979b); Kluth and Coney

Roosevelt County

(1980); Woodward (1976)

Blackwater Draw, Agenbroad (1978); Saunders (1978) Bluitt field, Ingram (1977a)

Brownfield 2° quadrangle, DeCicco and Patterson (1980a); U.S. Geol. Survey (1980f)

Clovis 2° quadrangle, DeCicco and Patterson (1980c); Texas Bureau of Economic Geology (1978); U.S. Geol. Survey (1980e)

ground water, Hudson, J. D. (1976–77c, 1979d) land classification map, DeCicco and Patterson (1980a, c); U.S. Geol. Survey (1980e, f)

Peterson (Associated gas) field, Chenot (1977a)

petroleum and natural gas, Havenor (1977); Roswell Geological Society (1977); Sandlin and Schatz (1980); Scott, G. L. (1980)

Portales Valley, Hudson, J. D. (1976–77c, 1979d) soil science, Sridhar and others (1978)

South Prairie Devonian field, Cys (1977b)

Todd San Andres field, Smith, G. (1977)

Tom-Tom and Tomahawk San Andres oil fields, Scott, G. L. (1980)

Vada Pennsylvanian field, Carelton (1977)

Roswell Underground Water Basin

ground water, Duffy and others (1978); Gross, G. W., and others (1980); LeFebre (1976, 1977); Mercado (1977); Rabinowitz and others (1977a); Welder (1977a, b)

Rubio Peak Formation, Hedlund (1976)

Rustler Formation, Hiss (1976d); Lynch (1979)

Sacramento Mountain escarpment, Pray (1977a) Sacramento Mountains

Abo Formation, Delgado (1977a, b)

algae, Parks (1977c)

bioherms, Hosseini (1980); Parks (1976a, b, 1977b, d); Wilson, J. L. (1977a); Wray (1977)

Caballero Formation foraminifera, Conkin and Conkin (1979)

Capitan Formation, Lohmann (1978)

carbonate-mudbank buildups, Parks (1977a)

conodonts, Burton, R. C. (1977); Hung (1978)

crinoids, Strimple (1980)

erosion, Robbie and Buchanan (1978)

Gobbler Formation, Van Wagoner (1977a)

guidebook, Butler, J. H. (1977)

Holder Formation, Dunning (1978)

Laborcita Formation, Cys and Mazzullo (1977); Delgado (1977a, b); Delgado and Pray (1977); Winchester, P. D. (1976, 1977)

Lake Valley Limestone, Burton, R. C. (1977); Lohmann (1978); Lohmann and Meyers (1977); Meyers (1977a) limestones, general, Meyers (1978, 1980)

Mississippian deposition, De Keyser (1979); Schaefer (1976)

Paleozoic facies, Scholle and Halley (1980)

phylloid algal mounds, Mazzullo and Cys (1979a); Toomey and others (1977)

road logs, Delgado and Pray (1977); Oppel and others (1977); Pray (1977b-g); Pray and Packard (1977) Yucca Mound Complex, Toomey and others (1977a, b);

Toomey and Wilson (1977)

Sacramento shelf, Van Wagoner (1978)

Salado Formation

Carlsbad potash district, Bodine and Laskin (1979)

Delaware Basin, Anderson, R. Y., and Powers (1978); Dean and Anderson (1978a, b)

geochronology, Brookins, Register, Register, and Lambert (1978); Register, J. K. (1979); Register, J. K., and Brookins. (1980)

radioactive-waste disposal, Roedder and Belkin (1979); Szabo and Gottschall (1980)

Tijeras Canyon, Affholter (1979)

Salt Wash Member, see Morrison Formation

San Andres Formation

general, Jacka and others (1980); Milner (1976); Pitt (1980) Glorieta Sandstone, Milner (1978); Ossian (1976) ground water, Chavez (1976–77)

pseudoreefs, Squires (1976)

San Andres Mountains, Meyers (1978, 1980)

Sandia Mountains

ground water, Titus (1980)

igneous, Bolton (1976); Enz and others (1979); Thompson, T. B., and others (1980)

Placitas-Juan Tabo metamorphism, Berkeley and Callender (1979); Berkeley, Callender, and Keil (1976); Kasten, T. A. (1980)

Sandoval County

Albuquerque 2º quadrangle, DeCicco, Patterson, and Lutz (1978a); Geometrics (1979a); Maassen, Bolivar, and others (1979); Wyant and Olson (1978)

aluminum, Hall, R. B. (1978)

Arroyo Chijuillita 71/2' quadrangle, Dames and Moore (1979r)

Aztec 2° quadrangle, DeCicco, Patterson, and Lutz (1978b); Geodata International (1980)

Ballard Pictured Cliffs field, Brown, C. F. (1978b)

Bandelier National Monument, Purtymun and Adams (1980)

Basin Dakota field, Hoppe (1978c)

Bernabe Montaño uranium deposit, Kozusko and Saucier (1980)

Bernalillo NW 71/2' quadrangle, Manley (1978d)

Blanco Pictured Cliffs south field, Brown, C. F. (1978e) Bouguer gravity anomaly, Dimitrijevich and others (1976) Caniilon Hill, Kudo and others (1977)

Cañon de San Diego, Goff and Kron (1980)

Cebolleta Grant, Boyd (1976)

Cerros del Rio, Aubele (1978, 1979)

Chacon Dakota field, Beach and Thomas (1978)

Chico Arroyo, Craigg (1980)

coal, Dames and Moore (1979b-f, h, i, p-s, aa, aaa, bbb) copper, Timmer (1976)

Counselor 71/2' quadrangle, Dames and Moore (1979c) Deer Mesa 71/2' quadrangle, Dames and Moore (1979p) Dennison–Bunn uranium claim, Ridgley (1979a, c, 1980)

Diamond Tail fault, Black, B. A. (1979b) Eagle Mesa Entrada field, Campbell, J. P. (1978)

Fire Rock Well 71/2' quadrangle, Dames and Moore (1979d) Five Lakes Dakota field, Reese, V. R. (1978b)

geothermal energy, Fenton Hill site, Aamodt (1976, 1977); Aamodt, Aki, and others (1978); Aamodt, Baltz, and others (1978); Aamodt, Brown, and others (1978); Aki and others (1977); Albright (1976, 1979); Albright and others (1978); American Geophysical Union (1977a); Ander, Goss, and others (1980); Atkinson, P. G. (1980); Balagna, Beddoe, and others (1978); Balagna, West, and others (1977); Barker, Colin (1976); Bodvarsson and others (1980); Brookins, Forbes, and others (1977); Brookins and Laughlin (1976a, b, 1977) Brown, D. W. (1976); Brown, M. C., and others (1979); Burruss and Holister (1979); Charles (1978); Charles and Herrick (1976); Charles, West, and others (1977); Cremer and others (1980); Crowe and others (1978); Cummings and others (1979); Dennis, B. R., and Horton (1978); Dennis, B. R., Miles, and others (1978); Dennis, B. R., and Murphy (1978); Duffield and Tester (1978); Duffy (1978); Ehrenberg and Perkins (1977); Fehler (1977); Gancarz (1978); Gutschick and Rea (1978); Hageman (1978); Hatton (1977, 1978, 1980a, b); Helmick and others (1976); Hendron (1978); Holley and others (1978); Hsu (1979); Hsu and others (1978); Kaufman, E. L., and Siciliano (1979); Keller, G. V., Grose, and Pickett (1978); Kintzinger (1976); Kintzinger and others (1978); Kintzinger and West (1976); Kolstad and McGetchin (1978); Kolstad, McGetchin, and Laughlin (1976); Lambert, S. J. (1979a-c) Laughlin and Eddy (1976); Laughlin and West (1976); Laughlin, West, and others (1977); Lawton and Horton (1979); Maurer and others (1978); Messer and others (1978); Mortensen (1978); Murphy, H. D. (1976, 1978a, b); Murphy, H. D., and others (1978); Murphy, H. D., and Tester (1979); Naeser and Forbes (1976); Newsom (1978); Otte (1980); Pearson and others (1980); Pettitt (1976, 1977, 1978, 1979); Pettitt and Tester (1978a, b); Pettitt and West (1978); Potter, J. M. (1978); Potter, J. M., and others (1976); Potter, R. M. (1976); Purtymun, Adams, and others (1977); Purtymun, Ferenbaugh, and others (1980); Purtymun and others (1976, 1980); Purtymun, Stoker, and others (1978); Riecker (1977); Sanyal and others (1976); Schubert and others (1980); Sibbitt and others (1978, 1979); Simmons and Eddy (1976); Smith, M. C. (1975, 1976, 1978); Tester and Albright (1979); Tester and others (1979); Turner, D. L., and Forbes (1976); Turner, W. M., and Kues (1978); West, F. G., and Laughlin (1976); West, F. G., and Purtymun (1976); Zartman (1979) Gilman 71/2' quadrangle, Woodward, DuChene, and Martinez (1977)

ground water, Boyd (1976); Earth Environmental Consultants, Inc. (1977b)

Hagan embayment, Black, B. A. (1979c)

hydrogeology, Craigg (1980); Earth Environmental Consultants, Inc. (1977a); Purtymun, Peters, and Owens (1980)

Johnson Trading Post 71/2' quadrangle, Dames and Moore (1979aaa)

land classification map, DeCicco, Patterson, and Lutz (1978a, d)

Las Milpas gas storage unit, Sharrock (1978)

Lybrook Gallup field, Reese, V. R. (1978c)

Lybrook 71/2' quadrangle, Dames and Moore (1979b)

Lybrook SE 71/2' quadrangle, Dames and Moore (1979b) Lybrook SE 71/2' quadrangle, Dames and Moore (1979e) Madrid, Bachman (1976b)

magnetic survey, Geometrics (1979b)

Media Entrada field, Reese, V. R. (1978d)

Media Entrada southwest field, Reese, V. R. (1978e)

Media Gallup field, Reese, V. R. (1978f)

Mesa Portales 71/2' quadrangle, Dames and Moore (1979bbb)

Mining Mountain area, Hill, S. R. (1980)

Mule Dam 71/2' quadrangle, Dames and Moore (1979f) Ojo Encino Mesa 71/2' quadrangle, Dames and Moore (1979s); Scott, G. R., Schneider, and Mytton (1980)

Otero Pictured Cliffs field, Harris, J. J. (1978)

Otero Point Lookout field, Pritchard (1978f)

Pajarito Plateau, Budding (1978)

Parlay Mesaverde field, Gray (1978)

Peña Blanca, Frost (1980)

petroleum and natural gas, Black, B. A. (1979d); Fassett, Thomaidis, and Matheny (1978); Matheny, M. L., and Talley (1978)

Piedra Lisa Arroyo, Funderburg (1977)

Pueblo Alto Trading Post 71/2 quadrangle, Dames and Moore (1979h)

Regina 71/2' quadrangle, Dames and Moore (1979aa); Merrick (1980)

road logs, Black, B. A. (1979b); Fassett, Jentgen, and others (1977); Hawley, Chapin, Chamberlin, and others (1978); Hawley and Galusha (1978); Hawley and Kottlowski (1978); Lambert, P. W. (1978a); Woodward, Ingersoll, Fitch, and others (1979)

Rusty Chacra field, Kennedy, C. C. (1978b)

Sandia Mountains, Kasten, T. A. (1980)

San Ysidro 71/2' quadrangle, Woodward and Ruetschilling (1976)

Seven Springs 71/2' quadrangle, Timmer (1976) soil survey, Hacker (1977)

Star Lake 71/2' quadrangle, Dames and Moore (1979i)

surface water, Rathbun and Kennedy (1978) Taylor Ranch 71/2' quadrangle, Dames and Moore (1979q)

Torreon Mesaverde field (gas), Pritchard (1978g)

Torreon Mesaverde field (oil), Pritchard (1978h)

Torreon Wash, Craigg (1980)

uranium, Moore, J. C. (1979)

Wanda Managada Cald Disal

Venado Mesaverde field, Pritchard (1978i)

sandstone

copper, LaPoint (1976, 1977, 1979) uranium, Brookins and Della Valle (1979)

Sangre de Cristo Mountains

aeromagnetic map, Cordell, L. (1976b); U.S. Geol. Survey (1976c)

crinoids, Strimple (1980)

geochronology, Graustein and Armstrong (1978)

Mora River area, Baltz and O'Neill (1980a)

Ocate volcanic field, O'Neill and Mehnert (1980a, b)

Pecos greenstone belt, Robertson, J. M., Condie, and Mathewson (1978); Robertson, J. M., and Moench (1979) pediments, Pillmore and Scott (1976)

Pennsylvanian strata, Siemers, C. T. (1979)

Precambrian, Wyman, W. F. (1980a)

Sapello River area, Baltz and O'Neill (1980b)

soil science, Graustein (1976); Nozaki, DeMaster, Ben-

ninger, and others (1977); Nozaki, DeMaster, Lewis, and Turekian (1978)

stratigraphy, Ingersoll (1979a)

tungsten, Moench and Erickson (1980)

watershed, Graustein and Armstrong (1978)

San Jose Formation, Lucas (1977); Tsentas and Lucas (1980)

San Juan Basin
Bisti-Star Lake area, Kues, Froehlich, and others (1977);
LeMone and others (1977, 1979);
U.S. Bureau of Reclamation (1976e);
U.S. Dept. Interior (1977);
Wilson,
R. W., and Jenteen (1980)

black sand deposits, Brookins (1977a)

Blanco field, Buckner (1976)

Blanco Mesaverde field, Hill, J. M. (1978); Martinez, L. B. (1978)

Burro Canyon Formation, Owen, Walters, Depetro, and Turmelle (1978); Owen, Walters, Kostura, and Grant (1976)

Chinle Formation, O'Sullivan (1977)

Cliff House Sandstone, Fassett (1977b); Fuchs-Parker (1977); Mannhard (1976)

coal, Beach and Jentgen (1978); Beaumont and Shomaker (1977); Bierei (1977); Fassett (1977c); Hejl (1979); Hinkley (1980); Hinkley and others (1980); Lent (1980a, b); Marston (1976); Meissner (1977); O'Sullivan (1980); Schneider, Hildenbrand, and Affolter (1979); Shomaker and Stone (1976); Shomaker and Whyte (1977); Siemers, C. T. (1978a, b); Speer and others (1977); Tabet (1977b); Tabet and Frost (1979a, b); Tabet, Frost, and Kottlowski (1979); Whyte and Shomaker (1977a, b); Wilson, R. W., and Jentgen (1980)

Cretaceous, Fassett (1976); Molenaar (1977b); Peterson, F., and Kirk (1977)

Dakota Sandstone, Cobban (1977a); Dugan (1977); Levinson (1979); Noon (1980); Owen and Siemers (1977) Owen, Walters, Depetro, and Turmelle (1978); Owen, Walters, Kostura, and Grant (1976)

East Chaco Canyon drilling project, Hicks, R. T., and others (1980); Lease (1979)

Entrada oil field, Bryant (1980)

Entrada Sandstone, Picard (1980)

erosion, Cooley (1979a, b)

Fossil Forest, Rigby and Wolberg (1980)

Fruitland Formation, Bierei (1977); Erpenbeck and Flores (1979); Fassett and Hinds (1977); Flores (1980); Gould (1978); Gould and others (1977); Rigby and Wolberg (1980); Schneider, Hildenbrand, and Affolter (1979); Tidwell, Bunderson, and Parker (1980); Whyte and Shomaker (1977b); Wolberg (1980a, c); Wolberg and LeMone (1980); Wolberg and Rigby (1980)

Gallup Sandstone, Kirk, Huffman, and others (1978); Mizell and Stone (1979)

general, Flores and Mytton (1979)

geochronology, Brookins, Della Valle, and Register (1980); Taylor, L. H. (1977)

geomorphology, Gutierrez (1980a); Hewett (1977); Schultz (1980)

geothermal energy, Chaturvedi and Lory (1980); Gran (1978)

ground water, Lyford (1979); Lyford and Frenzel (1979); Lyford, Frenzel, and Stone (1979, 1980); Lyford and Stone (1978); Shomaker and Stone (1976); U.S. Bureau of Reclamation (1976b); U.S. Dept. Interior (1977)

guidebook, Fassett (1977a); Lent (1980a, b)

hydrogeology, Kelly, T. E. (1977); Stone, W. J., and Mizell (1978); Wright, A. F. (1979a)

hydrology, Hejl (1979); Melancon and others (1979); Stone, W. J. (1976b, 1979a-c); Stone, W. J., and Lyford (1978) Jackpile Sandstone, Owen, Walters, Depetro, and Turmelle (1978)

Jurassic, Green and Pierson (1977)

Kirtland Shale, Fassett and Hinds (1977); Wolberg (1980b) La Ventana formation, Fuchs-Parker (1977)

(1978); Stone, W. J. (1979c); Turner-Peterson (1980) Lone Pine field, Berg (1979a) magnetic survey, U.S. Geol. Survey (1980h) Westwater Canyon Sandstone, Clark, D. S. (1980); Kelly, Mancos Shale, Cobban (1977a); Skeryanc (1977) T. E. (1977); Turner-Peterson and Gunderson (1980); Menefee Formation, Siemers, C. T. (1978a, b); Siemers, Vizcaino and O'Neill (1977) C. T., and Wadell (1977); Tabet and Frost (1979b); Tabet, Frost, and Kottlowski (1979); Whyte and Sho-San Juan County maker (1977a, b) Alamo Farmington field, Hoppe (1978a) mineral exploration, Elias (1977) Alamo Mesa East 71/2' quadrangle, Dames and Moore (1979v) mollusks, Cobban (1977a) Morrison Formation, Corken (1979); Green and Pierson Alamo Mesa West 71/2' quadrangle, Dames and Moore (1979u); Scott, G. R., O'Sullivan, and Mytton (1979) (1977); Squyres (1980); Turner-Peterson (1980) Amarillo Gallup field, Dugan and Fagrelius (1978a) Nacimiento Formation, Taylor, L. H. (1977); Taylor, L. H., and Butler (1980); Tsentas and Lucas (1980) Angel's Peak Gallup field, Matheny, M. L., and Matheny Navajo coal mine, Karna (1977, 1979); Sheffer and others (1978); U.S. Bureau of Reclamation (1976b, c) Animas Chacra field, Hoppe (1978b) Aztec Farmington field, Kendrick and Dugan (1978) Ojo Alamo Sandstone, Rigby and Lucas (1977) Paleocene stratigraphy, Alvarez and Vann (1979); Lucas Aztec Fruitland field, Malone (1978a) Aztec Fruitland north field, Malone (1978b) and Rigby (1979) paleomagnetism, Butler, R. F., Lindsay, Jacobs, and Aztec Pictured Cliffs field, Brown, C. F. (1978a) Aztec 2° quadrangle, Brown, D. R. (1976); Brown, D. Johnson (1976, 1977); Butler, R. F., Lindsay, and John-R., and Stone (1979); DeCicco, Patterson, and Lutz son (1979); Butler, R. F., and Taylor (1978); Lindsay, Butler, and Johnson (1979); Lindsay, Butler, and others (1978b); Geodata International (1980); Manley and Scott (1979); Lindsay, Jacobs, and Butler (1978); Lucas and (1978)Rigby (1979) Ballard Pictured Cliffs field, Brown, C. F. (1978b) Pennsylvanian, Jentgen (1977) Barker Creek Dakota field, Matheny, M. L. (1978b) Permian, Baars (1979b, c); Baars and Stevenson (1977, Barker Creek Paradox field, Matheny, M. L. (1978c) Basin Dakota field, Hoppe (1978c) petroleum and natural gas, Berg (1979a); Bryant (1980); Beautiful Mountain Mississippian field, Brown, H. H. Buckner (1976); Dugan (1977); Fassett and others (1978); Fassett, Thomaidis, and Matheny (1978); Gorham, F. Bisti, Jentgen and Fassett (1977); LeMone and others D., Jr., and others (1977, 1979); Hill, J. M. (1978); (1979); Wilson, R. W., and Jentgen (1980) Hunter (1979); Kraft and John (1979); Luetkehans (1976); Bisti Carson Unit Gallup field, Collins (1978) Bisti Lower Gallup field, Sabins (1978) Mallory (1977a, b); Martinez, L. B. (1978); Masters Bisti Trading Post 71/2' quadrangle, Dames and Moore (1979); Matheny, M. L. (1978a); Matheny, M. L., and Talley (1978); Molenaar (1977a, b); New Mexico Oil (1979t); O'Sullivan, Scott, and Heller (1979b) and Gas Conservation Commission (1977); Owen (1980); Blackeve Mesaverde field, Black, B. A. (1978b) Parker, J. M., and others (1977); Picard (1980); Ross, Blanco Fruitland field, Malone (1978c) L. M., and Harwood (1979); Rusen (1977); Ryder and Blanco Mesaverde field, Hill, J. M. (1978); Pritchard (1978a) others (1980); Tabet (1977b); Thompson, K. F. M. (1980); Blanco Pictured Cliffs field, Brown, C. F. (1978c) Woolfson (1977) petrology, Stone, W. J. (1979b) Blanco Pictured Cliffs south field, Brown, C. F. (1978e) Blanco Trading Post 71/2' quadrangle, Dames and Moore Pictured Cliffs Sandstone, Erpenbeck and Flores (1979); Fassett (1977b); Flores (1979, 1980) Pinedale oil seep, Molenaar (1977a) Bloomfield Chacra field, Hoppe (1978d) Point Lookout Sandstone, Devine (1980); Fassett (1977b); Bloomfield Farmington field, Riggs (1978a) Hunter, B. E. (1979); Shetiwy (1978) Bloomfield SE 71/2' quadrangle, Dames and Moore San Jose Formation, Lucas (1977); Tsentas and Lucas (1979ee) Bloomfield SW 71/2' quadrangle, Dames and Moore (1979cc) sauropod, Kues, Lehman, and Rigby (1980) seismology, King, K. W., and Hays (1977); Ryder and Blue Hill Paradox field, Riggs (1978b) others (1980); Sangree and Widmier (1978, 1979) Buena Suerte Pennsylvanian field, Brown, H. H. (1978b) Semilla Sandstone Member, LaFon (1980) Burnham Trading Post 71/2' quadrangle, Scott, G. R., O'Sullivan, and Heller (1979a) shale, Mallory (1977) Cha Cha Gallup field, Matheny, M. L., and Matheny stratigraphy, Butler, R. F., Lindsay, Jacobs, and Johnson (1976, 1977); Butler, R. F., Lindsay, and Johnson (1979); Fassett (1979); Huffman and Lupe (1977); Lindsay, Butcoal, Dames and Moore (1979a, b, d, e, j-o, t-y, bb-gg, ler, and Johnson (1979); Lindsay, Jacobs, and Butler ii-kk, mm-zz, ccc-mmm) (1978); Lucas and Rigby (1979); Molenaar (1977b, c, Cone Paradox field, Fagrelius (1978a) 1978); O'Sullivan, R. B. (1977); Owen (1980); Owen Conner Fruitland field, Malone (1978d) and Siemers (1977); Sangree and Widmier (1978, 1979); Crouch Mesa Mesaverde field, Pritchard (1978b) Stevenson and Baars (1977); Stone, W. J. (1979a); Tsen-Crystal 71/2' quadrangle, Byers (1979) tas and Lucas (1980) Cuervo Mesaverde field, Dugan and Fagrelius (1978b) Duffers Point Gallup field, Dunn (1978c) surface water, Busby (1979a, b); Gutierrez (1980b) Escrito Gallup field, Reese, V. R. (1978a) tectonics, Stevenson and Baars (1977); Woodward and Fire Rock Well 71/2' quadrangle, Weide, Mytton, and Callender (1977a) Scott (1979) Tertiary sedimentation, McDonald (1976) Torreon Wash area coal, Tabet and Frost (1979a, b) Flora Vista Fruitland field, Malone (1978e) Triassic, O'Sullivan (1977) Flora Vista Gallup field, Hornbeck (1978) uranium, Brookins, Della Valle, and Balagna (1979); Flora Vista Mesaverde field, Pritchard (1978c) Brookins, Della Valle, and Lee (1978b); Brookins, Lee, Four Corners Paradox field, Bircher (1978a)

Fruitland 71/2' quadrangle, Dames and Moore (1979d);

Fulcher-Kutz Pictured Cliffs field, Brown, C. F. (1978g)

Weide, O'Sullivan, and Heller (1979)

and Riese (1977); Busby (1979a, b); Chenoweth (1977);

Clark, D. S. (1980); Cooley (1979a, b); Huffman and Lupe (1977); Ridgley (1979a, 1980); Ridgley and others

Gallegos Farmington south field, Dugan and Fagrelius (1978c)

Gallegos Fruitland field, Hopson (1978)

Gallegos Fruitland south field, Bircher (1978b)

Gallegos Gallup field, Dunn (1978d)

Gallegos Trading Post 71/2' quadrangle, Dames and Moore (1979bb)

geomorphology, Love and Schultz (1980)

Green Knobs diatreme, Meyer, H. O. (1976)

Harper Hill Fruitland and Pictured Cliffs field, Dugan and Fagrelius (1978d)

Harris Mesa Chacra field, Hoppe (1978e)

Hogback Dakota field, Maynard (1978a)

Hogback Mississippian field, Maynard (1978b)

Hogback Pennsylvanian field, Maynard (1978c)

Hogback South 71/2' quadrangle, O'Sullivan, Scott, and Heller (1979d)

Horseshoe Gallup field, McEachin and Royce (1978)

Huerfano Pictured Cliffs field, Matheny, M. L. (1978e) Huerfano Trading Post 71/2' quadrangle, Dames and Moore (1979i)

Huerfano Trading Post NW 71/2' quadrangle, Dames and Moore (1979dd)

hydrology, Brown, D. R. (1976); Brown, D. R., and Stone (1979)

Jasis Canyon Fruitland field, Hamilton, D. P. (1978a) Kimbeto, Hinkley (1980); Schneider, Hildenbrand, and Affolter (1979)

Kimbeto 71/2' quadrangle, Dames and Moore (1979m); Schneider (1978); Schneider, Weide, and Scott (1979)

Kin Klishin Ruins 71/2' quadrangle, O'Sullivan (1980); O'Sullivan, Scott, and Weide (1979)

Kirtland SW 7¹/₂' quadrangle, O'Sullivan, Scott, and Heller (1979c)

Knickerbocker Buttes Gallup field, Pritchard (1978e)

Kutz Farmington field, Malone (1978f)

Kutz Fruitland field, Malone (1978g)

Kutz Fruitland west field, Conlon (1978a)

Kutz Gallup field, Stevenson and Matheny (1978) Kutz Pictured Cliffs west field, Brown, C. F. (1978h)

land classification map, DeCicco, Patterson, and Lutz (1978b, c); U.S. Geol. Survey (1979c, 1980c)

La Plata Gallup field, Greer (1978a)

Largo Chacra field, Hoppe (1978f)

Los Pinos Fruitland north and south fields, Bowman (1978a,

Lybrook $7^1/2'$ quadrangle, Dames and Moore (1979b) Lybrook NW $7^1/2'$ quadrangle, Dames and Moore (1979a) Lybrook SE $7^1/2'$ quadrangle, Dames and Moore (1979c)

magnetic survey, Geometrics (1979a)
Many Rocks Gallup field, Matheny, M. L., and Little

Many Rocks Gallup north field, Matheny, M. L., and Little (1978b)

Meadows Gallup field, Fagrelius (1978b)

Menefee Formation, O'Sullivan (1980)

Mesa Gallup field, Matheny, M. L., and Little (1978c)

Middle Canyon Dakota field, Stevenson (1978)

Mississippian carbonates, Rose, P. R. (1976)

Mitten Rock 71/2' quadrangle, Huffman (1979)

Mt. Nebo Fruitland field, Maynard (1978d)

Nageezi Gallup field, Brown, H. H. (1978c) Nageezi SE 71/2' quadrangle, Dames and Moore (1979nnn)

Nageezi SE 71/2' quadrangle, Dames and Moore (1979nnn Navajo mine, Karna (1977, 1979); Sheffer (1979)

Newcomb NE 71/2' quadrangle, Scott, G. R., O'Sullivan, and Heller (1979c)

Newcomb SE $7^{1/2}$ ' quadrangle, O'Sullivan, Scott, and Heller (1979a)

Nipp Pictured Cliffs field, Jacobs, J. L. (1978) Ojo Fruitland-Pictured Cliffs field, Fagrelius and Jacobs

(1978b) Ojo Gallup field, Dugan and Fagrelius (1978e) Oswell Farmington field, Riggs (1978c) Otero Pictured Cliffs field, Harris, J. J. (1978)

Pajarito Pennsylvanian field, Dunn (1978e)

petroleum and natural gas, Fassett, Thomaidis, and Matheny (1978); Hill, J. M. (1978); Matheny, M. L., and Talley (1978)

Pillar NW 7¹/₂' quadrangle, Scott, G. R., O'Sullivan, and Heller (1979b)

Pine River 71/2' quadrangle, Dames and Moore (1979mmm)

Piñon Fruitland field, Maynard (1978e)

Piñon Fruitland north field, Conlon (1978b)

Piñon Gallup field, Matheny, M. L., and Matheny (1978d) Potwin Pictured Cliffs field, Jacobs, J. L., and Fagrelius (1978a)

Pretty Rock 7¹/₂' quadrangle, Dames and Moore (1979y) Pueblo Bonito 7¹/₂' quadrangle, Dames and Moore (1979n); Schneider (1978); Weide, Schneider, and others (1979a) Pueblo Bonito NW 7¹/₂' quadrangle, Dames and Moore (1979l); Schneider (1978); Schneider, Weide, Mytton, and Scott (1979)

Pump Mesa Fruitland field, Babcock, G. (1978)

Redrock Valley NE 71/2' quadrangle, Huffman (1977)

Redrock Valley SE $7^{1/2'}$ quadrangle, Huffman and Jones (1978)

road logs, Fassett, Black, and others (1977); Fassett, Molenaar, and others (1977)

Salt Creek Dakota field, Jacobs, J. L., and Fagrelius (1978b)

Sand Spring 71/2' quadrangle, Huffman (1976)

Sargent Ranch 71/2' quadrangle, Dames and Moore (19790); Schneider (1978); Weide, Schneider, and others (1979b) Shiprock, Delaney (1980); Delaney and Pollard (1978); Pollard and Delaney (1978)

Shiprock Dakota north field, Dugan and Fagrelius (1978f) Shiprock Gallup north field, Dugan and Fagrelius (1978g) Shiprock 2° quadrangle, DeCicco, Patterson, and Lutz (1978c); Geometrics (1979a); U.S. Geol. Survey (1979c, 1980c)

Simpson Gallup field, Matheny, M. L., and Matheny (1978e)

Sleeper Pictured Cliffs field, Matheny, M. L. (1978f) Slick Rock Dakota field, Garvin (1978)

Snake Eyes Dakota and Entrada fields, Bryant (1978c) soil mapping, Carey and Keetch (1979); Keetch (1980)

Sonsela Butte SE 71/2' quadrangle, Byers (1980) Star Lake, Jentgen and Fassett (1977); LeMone and others

Star Lake, Jentgen and Fassett (1977); LeMone and others (1977)

Stoney Butte Dakota field, Lauth (1978a)

Stoney Butte Mesaverde field, Lauth (1978b)

Table Mesa Dakota field, Lauth (1978c)

Tanner Lake 71/2' quadrangle, Dames and Moore (1979x) Tocito Dome Mississippian north field, Riggs (1978d) Tocito Dome Pennsylvanian "D" field, Spencer, C. W. (1978a)

Tocito Dome Pennsylvanian north field, Spencer, C. W. (1978b)

Totah Gallup field, Matheny, M. L., and Matheny (1978f)
Twin Mounds Messyerde field, Hamilton, D. P. (1978h)

Twin Mounds Mesaverde field, Hamilton, D. P. (1978b) Twin Mounds Pictured Cliffs field, Hamilton, D. P. (1978c)

Ute Dome Dakota field, Tezak (1978a)

Ute Dome Paradox field, Tezak (1978b)

Ute Mountain Indian Reservation, Henkes and others (1976)

Verde Gallup field, Riggs (1978e)

volcanism, Delaney (1980); Delaney and Pollard (1978); Pollard and Delaney (1978)

Waterflow 7¹/₂' quadrangle, Strobell and others (1980) WAW Fruitland–Pictured Cliffs field, Fagrelius (1978c)

San Juan Mountains, Armstrong and Mamet (1977a, b) San Luis Basin

geomorphology, Colton (1976)

hydrogeology, Burroughs and McFadden (1976) seismology, Davis, T. L., and Stoughton (1979)

San Marcial Basin, Chapin (1978c)

San Mateo Mountains, Chapin and Deal (1976); Deal (1978); Deal and Rhodes (1976)

San Miguel County

Cow Creek ultramafic complex, Wyman, W. F. (1980b) Gallinas Gorge, Schufle (1979)

guidebook, Ewing, R. C., and Kues (1976); Ingersoll (1979c); Ingersoll and Woodward (1979)

land classification map, DeCicco and Patterson (1980b, h); U.S. Geol. Survey (1980g)

Las Vegas, Lessard and Bejnar (1976)

magnetic survey, Geometrics (1979a); U.S. Geol. Survey

Montezuma Hot Springs, Bejnar, W., and Bejnar (1979) Pecos, U.S. Geol. Survey (1980i)

Pecos mine, Riesmeyer and Robertson (1979)

Rito de los Quemazones, Frost (1980)

road logs, Budding (1979); Lessard (1976); Robertson, J. M., Budding, and others (1979)

Santa Fe 2° quadrangle, DeCicco and Patterson (1980b); Geometrics (1979b)

Tapia Canyon, Shepherd (1978)

Tucumcari 2° quadrangle, DeCicco and Patterson (1980h); U.S. Geol. Survey (1980g)

San Pedro Mountains, Wobus and Hedge (1980)

San Rafael Group

Entrada Sandstone, Langford (1980); Picard (1980); Sarella (1977)

general, Wright, J. C. (1978); Wright, J. C., and Dickey (1979a, b); Wright, J. C., Dickey, and Freeman (1979) Todilto Limestone, Hines, S. A. (1976); Rawson (1976, 1980)

Santa Fe County

Albuquerque 2° quadrangle, DeCicco, Patterson, and Lutz (1978a); Geometrics (1979a); Maassen, Bolivar, and others (1979); Wyant and Olson (1978)

Buckman, Black and Veatch (1976)

Carboniferous entomology, Durden (1979)

Cerrillos copper deposit, Akright (1979); Harshbarger, J. W. and Associates (1976)

Cerrillos earthquake, Olsen, K. H (1979)

Cerrillos mining district, Schroeder (1979)

Cerros del Rio, Aubele (1978a, b, 1979)

Diamond Tail fault, Black, B. A. (1979b)

Galisteo Creek, Booth, (1976, 1977)

Galisteo syncline, Lisenbee (1976a, b)

geomorphology, Leopold (1976); Malde and Scott (1977) ground water, Black and Veatch (1976); Borton (1979b); Harshbarger, J. W., and Associates (1976); Summers (1976c); Wilson, L. (1976a, b); Wilson, L., and Jenkins (1979)

guidebook, Ingersoll (1979c); Ingersoll and Woodward (1979)

hydrogeology, Earth Environmental Consultants, Inc. (1976a); Jenkins, D. N. (1977); Veneklassen (1980) hydrology, Consulting Professionals, Inc. (1977); Coonce and Assoc. (1977a-c); Herkenhoff and Associates (1976) kimberlite, McGetchin, Smith, and others (1977)

land classification map, DeCicco and Patterson (1980b); DeCicco, Patterson, and Lutz (1978a)

Madrid, Bachman (1976a, b)

magma bodies, Hermance and Pederson (1978)

magnetic survey, Geometrics (1979a, b); U.S. Geol. Survey (1980i)

Ortiz gold deposit, Lindquist (1980); Springett (1980)

Pajarito Plateau, Budding (1978)

paleoclimates, Leopold (1976)

petroleum and natural gas, Black, B. A. (1979a, d) road logs, Black, B. A. (1979b); Budding (1979); Budding, Robertson, and others (1979); Hawley (1978b); Hawley, Burroughs, and others (1978); Hawley, Chapin, Chamberlin, and others (1978); Hawley and Kottlowski (1978); Robertson, J. M., Budding, and others (1979); Woodward, Ingersoll, Fitch, and Hutchinson (1979a, b);

Woodward, Ingersoll, Fitch, and others (1979)

San Pedro mine, Taggart and Grigsby (1976)

San Pedro Mountains, Atkinson, W. W., Jr. (1976) Santa Fe, Borton (1979a)

Santa Fe embayment, Black, B. A. (1979a)

Santa Fe ski basin, White, C. S., and others (1978) Santa Fe 2° quadrangle, DeCicco and Patterson (1980b); Geometrics (1979b)

Tetilla Peak, Zimmerman, C. J., and Kudo (1979a) uranium, Chenoweth (1979)

Santa Fe Group

Abiquiu Tuff, Vazzana (1980); Vazzana and Ingersoll (1980) Ancha Formation, Manley (1976a, b); Manley and Naeser

Camp Rice Formation, Lovejoy (1976a)

Cejita member, Steinpress (1980)

Chama-El Rito Member, Steinpress (1980)

Chamita Formation, MacFadden (1976, 1977); Mac-Fadden and Manley (1976); Manley and Naeser (1977) Dixon member, Steinpress (1980)

Fort Hancock Formation, Lovejoy (1976a)

Llano de Albuquerque, Lambert, P. W. (1978b) Ojo Caliente Sandstone Member, Steinpress (1980)

paleontology, Kues and Lucas (1979)

Puye Formation, Manley (1976a, b); Manley and Naeser

stratigraphy, general, Willingham (1979)

Tesugue Formation, Manley (1976b); Manley and Naeser (1977); Steinpress (1980)

Santa Fe National Forest, U.S. Dept. Agriculture (1976) Santa Rosa Sandstone, see Dockum Group

Santo Domingo Basin, Sanguinetti and Loeber (1976) scapolite, Ricciardi (1978)

scoria, Cima (1978); Osburn, J. C. (1980)

sedimentation

Abo Formation, Adams, R. D. (1978)

Baca Formation, Schrodt (1980)

Bell Canyon Formation, Payne, M. W. (1976, 1979); Weinmeister (1978); Williamson, C. R. (1978, 1979a, b. 1980b)

Black Prince Limestone, Spencer, P. K. (1980)

Burro Canyon Formation, Owen, Walters, Depetro, and Turmelle (1978); Owen, Walters, Kostura, and Grant

Capitan Limestone or reef complex, Babcock and Yurewicz (1978); Queen and others (1979); Yurewicz (1976a, b, 1977c, d, 1978)

Castile Formation, Shaw (1977)

Chaco Canyon, Hall (1977); Love (1976, 1977)

Chinle Formation, Kurtz (1978a, b); Kurtz and Anderson (1980); Young, R. G. (1977, 1978)

Chuska Sandstone, Trevena and Nash (1978a)

Cliff House Sandstone, Mannhard (1976)

Colorado Plateau, Trevena (1977)

copper, Alminas, Watts, and others (1978b)

Crevasse Canyon Formation, Kirk and Zech (1977)

Dakota Sandstone, Asquith and Gilbert (1976); Bejnar, C. R., and others (1976); Gilbert and Asquith (1976); Levinson (1979); Owen, Walters, Depetro, and Turmelle (1978); Owen, Walters, Kostura, and Grant (1976) Delaware Basin, Hills (1979)

Dockum Group, McGowen (1979); McGowen and others (1977)

Doña Ana County, Funderburg and Roybal (1977)

Estancia Valley, Olsen, C. E. (1977)

Exeter Sandstone, Savela (1977)

Galisteo Basin, Gorham, T. W., and Ingersoll (1979) Gallinas River, Schufle, Baca, and others (1976); Schufle, Mega, and Beckhart (1979)

Gallup Sandstone, Campbell, C. V. (1979)

general, Aldon and Garcia (1977); Anderson, R. Y. (1977); Asquith, Gilbert, and Smith (1976); Bachhuber and McClellan (1976); Curtis, N. M., Jr. (1976)

Glorieta Sandstone, Milner (1978) Goat Seep Dolomite, Crawford (1979) Guadalupe Mountains, Queen (1980); Scholle and Halley (1980)Holder Formation, Dunning (1978) Jackpile Sandstone, Owen, Walters, Depetro, and Turmelle (1978) Jurassic, general, Wright, R. P., and others (1977) Kilbourne Hole, Brenner (1979) Laborcita Formation, Cys and Mazzullo (1977); Winchester, P. D. (1976) Lake Valley Limestone, Hill, E. B. (1978); Oglesby, Meyers, and Lohmann (1979) Lemitar Mountains, McLemore (1980b) Madera Formation, Adams, R. D. (1978); Swenson (1977) Mancos Shale, Kirk and Zech (1977); McLafferty (1979); Skeryanc (1977) McKinley County, Best (1973) Menefee Formation, Tabet, Frost, and Kottlowski (1979) Mesaverde Group, Mannhard (1976); McLafferty (1979) Mesa Rica Sandstone, Gage and Asquith (1977) molybdenum, Alminas, Watts, and others (1978c) Morrison Formation, Huffman, Kirk, and Corken (1980); Jenkins, J. T., Jr., and Cunningham (1979, 1980); Lee, M. J., and Brookins (1978, 1980); Ludwig (1980); Young, R. G. (1977, 1978) Morrowan sandstones, Hurley, T. J. (1980) Naco Group, Jacka and Thompson (1980) Ordovician, Ross, R. J., Jr. (1976) Palo Duro Basin, Handford (1980); Handford and others Pedregosa Basin, Ross, C. A. (1978) Peñasco uplift, Adams, R. D. (1980) Percha Formation, Kocurek (1977) Percha Shale, Kocurek and Chafetz (1977) Piankasha sequence, Agurkis (1977) Pictured Cliffs Sandstone, Flores (1979) Point Lookout Sandstone, Devine (1980); Shetiwy (1978) Precambrian, Kirschner (1979) Rancheria Formation, Yurewicz (1977a, b) Raton Basin, Fassett (1976) Raton Formation, Roehler and Danilchik (1980) Rinconada Formation, Barrett and Kirschner (1979) Rio Grande, Harms and Fahnestock (1977) Rio Grande rift, Cordell, L. (1979b); Kottlowski (1976); Sanford and Schlue (1979) Rio Ojo Caliente, Wenrich-Verbeek (1977, 1978, 1979a); Wenrich-Verbeek and Suits (1979a, b) Rio Puerco, Shepherd (1976); Shepherd and Macke (1978) Sacramento Mountains, De Keyser (1979); Delgado (1977a); Scholle and Halley (1980) Sacramento shelf, Van Wagoner (1978) San Andres Formation, Milner (1976) Sandoval County, Rathbun and Kennedy (1978) Sangre de Cristo Mountains, Siemers, C. T. (1979) San Juan Basin, Cooley (1979a, b); Fassett (1976); Kraft and John (1979); Molenaar (1977b); Schultz (1980) San Miguel County, Shepherd (1978) Santa Rosa Sandstone, LaPoint and Christiansen (1977); Lupe (1977) Semilla Sandstone Member, LaFon (1980) seston, Nuhfer (1979) Seven Rivers Formation, Sarg (1976a, b) silver, Alminas, Watts, and others (1978a) surface water, Gloss and others (1978) Tamaroa sequence, Bahlburg (1977); Bahlburg and Silver (1976); Wermiel (1978) Taos trough, Casey (1979b, 1980b); Casey and Scott (1980); McBryde (1979); McBryde and Casey (1979); Scott, A. J., and Casey (1979) Trinidad Sandstone, Pillmore and Maberry (1976)

Uncompanded uplift, Casey and Scott (1979) uranium, Aamodt, Bunker, and others (1979); Aamodt,

Hansel, and others (1977); Aamodt, Waterbury, and others (1979); Austin, S. R. (1979, 1980); Baird and Martin (1979); Baird, Martin, and Lowry (1980); Huffman, Kirk, and Corken (1980) Westwater Canvon Member, Galloway, W. E. (1980); Turner-Peterson and Gunderson (1980) zinc, Alminas, Watts, and others (1978d) Semilla Sandstone Member, see Mancos Shale Sepultura granite, Bolton (1976); Brookins, Bolton, and Condie (1980) Servilleta Formation, Brookins, Eppler, and Elston (1977); Crossey (1979); Manley (1976a) Seven Rivers Formation, see Artesia Group Sevilleta Metarhvolite, Bolton (1976); Brookins, Bolton, and Condie (1980) Shiprock, Pollard and Delaney (1976) Sierra Blanca, LaPoint (1979) Sierra County aluminum, Hall, R. B. (1978) Black Range mining district, Eveleth and Siemers (1980) Brush Heap mine, Eveleth and North (1980) Caballo Peak quadrangle, Mason (1976) Caballo Reservoir, Seager and Morgan (1978b) Chloride mining district, Maxwell, C. H., and Heyl (1980) coal, Tabet (1979b) Copper Flat Project, Greene and Halpenny (1976) Cuchillo Mountain laccolith, McMillan (1979); McMillan and Jahns (1979) Elephant Butte Dam and Reservoir, Mueller (1978) Elephant Butte Irrigation District, Wilson, C. A., White, and Roybal (1979a) Engle coal field, Tabet (1980) EXXON Corp. Prisor Unit Fed. No. 1 well, Cernock (1977c)Fra Cristobal Range, Thompson, S., III (1978) gravity, Dansereau and Wynn (1978); Wynn and Dansereau (1978) ground water, Greene and Halpenny (1976); Wilson, C. A., White, and Roybal (1979a) Hermosa mining district, Maxwell, C. H., and Heyl (1980) Hillsboro 15' quadrangle, Alminas and Watts (1978); Alminas, Watts, and others (1978a-d); Dansereau and Wynn (1978); Hedlund (1977a, b, 1979); Watts and Alminas (1979); Watts, Alminas, and Kraxberger (1978); Watts, Alminas, and others (1978a-c); Wynn (1978); Wynn and Dansereau (1978); Wynn and Hedlund (1979) land classification map, Banaszyski and others (1979); DeCicco and Patterson (1980e) Las Cruces 2° quadrangle, DeCicco and Patterson (1980e) Little Granite mine, Eveleth and Siemers (1980) magnetic survey, Wynn (1978) Red Rock talc deposit, Fitzsimmons and Kelley (1980) road logs, Chapin, Jahns, and others (1978); Hawley, Chapin, and Osburn (1978); Hawley, Lovejoy, and others (1978); Hawley and Seager (1978); Seager, Clemons, and Elston (1978); Thompson, S., III (1978) San Lorenzo 15' quadrangle, Alminas and Watts (1978); Alminas, Watts, and others (1978a-d); Dansereau and Wynn (1978); Hedlund (1977a, b, 1979); Watts and Alminas (1979); Watts, Alminas, and Kraxberger (1978); Watts, Alminas, and others (1978a-c); Wynn (1978); Wynn and Dansereau (1978); Wynn and Hedlund (1979) Sierra Cuchillo, Jahns and others (1978); Maldonado (1974,

Sunray Mid-Continent Federal M No. 1 well, Cun-

Tularosa 2° quadrangle, Banaszyski and others (1979);

Winston 71/2' quadrangle, Heyl (1976); Maxwell, C. H.,

Sierra Cuchillo, Correa (1980); Jahns and others (1978)

Sierra de las Uvas, Clemons (1976a, 1978, 1979)

ningham, C. P. (1978)

and Heyl (1976)

Geodata International (1978)

volcanic geology, Loeber (1976)

silver Rancho de Lopez area, Maulsby (1980) Brush Heap mine, Eveleth and North (1980) Red Cloud mines, DeMark (1980) Grant County, Alminas, Watts, and others (1978a) Riley-Puertecito area, Chapin, Osburn, and others (1979); Sierra County, Alminas, Watts, and others (1978a) Massingill (1978a, 1979a) road logs, Bornhorst and Elston (1978); Chapin (1978b); Winkler anticline, Hazen Research, Inc. (1979) skarn, Burt (1978a, b) Chapin, Chamberlin, and Hawley (1978); Chapin, Jahns, Smeltertown formation, Nodeland and Cornell (1976); Nye and others (1978); Hawley (1978c) Hawley, Chapin, and LeMone (1978); Strain (1976) Chamberlin, and others (1978); Hawley, Chapin, and Socorro County Osburn (1978); Hawley, Lovejoy, and others (1978) Abbe Spring area, Mayerson (1979) Roswell 2° quadrangle, DeCicco and Patterson (1979b) A-L Peak tuff, Chapin and Deal (1976) San Acacia, Machette (1978c) Baca Formation, Cather (1980); Chaiffetz (1979) San Acacia 71/2' quadrangle, Machette (1976a, 1978a) Bernardo, Machette (1978c) San Marcial Basin, Chapin (1978c) Cat Mountain area, Wilkinson (1976) San Mateo Mountains, Chapin and Deal (1976); Deal Claunch, Colvocoresses (1979); Fischer, W. A., and others (1978); Deal and Rhodes (1976) (1978, 1979)Scholle 71/2' quadrangle, Myers (1977) coal, Chapin, Osburn, and others (1979); Tabet (1976a, seismology, Brocher (1979a, b); Caravella (1976); Fender 1979a) (1978); Fisher, J. A. (1977); Frishman (1979); Geotimes Corkscrew Canyon area, Mayerson (1979); McLemore (1980); Guyn (1978); Johnston, J. A. (1978); Jurdy and Brocher (1980); Mott (1976); Murdock and Jaksha (1978); Ottolini (1978); Reinke (1978); Rinehart (1976, 1979); Datil, Reiter, M. A., Simmons, and others (1976) Datil Mountains, Harrison (1980) Rinehart and Sanford (1980): Rinehart and others (1979): Gallinas Peak area, Laroche (1980) Sanford (1976); Sanford and Oliver (1977); Sanford and geothermal studies, Chapin, Chamberlin, and others others (1976); Sanford, Rinehart, and others (1977); (1978a, b); Chapin, Sanford, and others (1979); Reiter, Sanford and Schlue (1979, 1980) Savage and others (1979); Sengupta and Ward (1977); Shuleski (1976); M. A., Simmons, and others (1976); Reiter, M. A., and Smith (1977); Sanford (1977a) Shuleski and others (1977); Tang (1978); Ward, R. M. gravity, Schlue (1978) (1980); Ward, R. W., and Sengupta (1977); West, K. ground water, Ecology Consultants, Inc. (1977) L. (1979); Yousef (1977) Fort Sumner 2° quadrangle, DeCicco and Patterson (1980g) Sierra Cuchillo, Jahns and others (1978); Maldonado (1974, Hansonburg mining district, Kottlowski and Steensma (1979); Putnam (1980); Steensma (1979); Taggart and Socorro Peak KGRA, Reiter, M. A., and Smith (1977) Socorro Peak volcanic center, Chamberlin (1980) Foord (1979) hydrology, Stone, W. J., and Foster (1977) Socorro 2º quadrangle, DeCicco, Patterson, and Lutz Jones Camp iron deposit, Bickford (1980) (1979); High Life Helicopters and Geodata International Jornada del Muerto, Reinke (1978); Schlue (1978); Tabet (1979); Machette (1978b) Squaw Peak area, Donze (1980) (1976a, 1979) Joyita Hills, Spradlin (1976) structural geology, Mott (1976) Kelly Limestone, Iovenitti (1977) Tertiary fill, Sanford and Schlue (1979) Kelly mining district, Iovenitti (1977) Tres Montosas area, Wilkinson (1976) Tularosa 2° quadrangle, Banaszyski and others (1979); Ladron Mountains, Callender and Zilinski (1976); Condie Geodata International (1978) (1976); Cookro (1978); White, D. L. (1978a, b) land classification map, Banaszyski and others (1979); Water Canyon-Jordan Canyon areas, Sumner (1980) DeCicco and Patterson (1979b, 1980g); DeCicco, Patsoil science terson, and Lutz (1979) Animas Valley, Fleischhauer (1977a) lead-zinc minerals, Narsavage (1979) Bernalillo County, Hacker (1977) Lemitar Mountains, Chamberlin (1976, 1978); Mccalcretes, Machette and Bachman (1978) Chaves County, Hodson and others (1980) Lemore (1980a-c) Doña Ana County, Bulloch and Neher (1980); Van de Pol Los Pinos Mountains, Beers (1976) Magdalena mining district, Iovenitti and Renault (1977); and others (1977) Narsavage (1979) fertilizer, McCaslin and Titman (1977) Magdalena Mountains, Allen (1979); Bowring (1980); general, Gile (1977) ground water, Van de Pol and others (1977) Donze (1980); Osburn, G. R. (1978); Petty (1979); Roth (1980); Siemers, W. T., and Blakestad (1976) Los Alamos County, Nyhan, Miera, and Peters (1976) magma body, Brocher (1979a, b); Brown, L. D., Krum-Los Esteros Dam, McDaniel and Decker (1979) hansl, Cook, and Kaufman (1978); Chapin, Sanford, Luna County, Neher and Buchanan (1980) and Brown (1980); Fender (1978); Fisher, J. A. (1977); moisture regimes, Zobeck (1980) Reilinger, Brown, and others (1979); Reilinger and Oliver Otero County, Neher (1976) (1976); Reilinger, Oliver, Brown, and others (1979); Quaternary, Shroba (1977) Reilinger, Oliver, and others (1980); Rinehart, E. J. rangeland, Honea (1978) (1976, 1979a, b); Rinehart, E. J., and Sanford (1980); Roosevelt County, Sridhar and others (1978) Rinehart, E. J., and others (1979); Sanford (1976, 1977b, Sandoval County, Hacker (1977) 1979); Sanford, Mott, and others (1977); Sanford and Sangre de Cristo Mountains, Graustein (1976) Oliver (1977); Sanford and others (1976); Sanford, San Juan County, Carey and Keetch (1979); Keetch (1980) Rinehart, and others (1977); Sanford and Schlue (1980); Tertiary, Schiebout (1979) Schuleski (1976); Schuleski and others (1977) Valencia County, Hacker (1977) magnetic survey, High Life Helicopters and Geodata In-White Sands Missile Range, Neher and Bailey (1976) ternational (1979) southern High Plains, Banks (1980); Brown, R. F., and

others (1976); Gutentag and Weeks (1980); Moodie and

Van Devender (1979); Reeves (1976, 1977); Stormer (1978);

Capitan Limestone or reef complex, Jagnow (1977)

Walker (1977); Weeks (1978)

speleology

Mount Withington cauldron, Chapin and Deal (1976)

Popotosa Formation, Brenner-Tourtelot and Machette

Pennsylvanian system, Siemers, W. T. (1978)

radon, Geotimes (1980); Schery and others (1980)

(1979)

Carlsbad Caverns, Folk, R. L. (1977); Folk, R. L., and Assereto (1976); Kendall and Broughton (1977); McLean (1976); VanCleave (1976) Eddy County, Byrd and Kunath (1978); Fieseler and Kunath (1978a, b); Folk, R. L. (1977); Folk, R. L., and Assereto (1976); Harris, A. H. (1978); Harris, A. H., and Porter (1980); Kunath (1978a, b); Lindsley and Lindsley (1978); Smith, A. R. (1978b) Guadalupe Mountains, Davis, D. G. (1980) nitrates, Hill, C. A. (1978) Ogle Cave, Davis, D. G. (1979) spinel lherzolites, Cunningham, M. P. (1977) staurolite, Holdaway (1978) stratigraphy Abiquiu embayment, Wilson, J. E. (1977) Abiquiu Tuff, Vazzana (1980); Vazzana and Ingersoll (1980) Abo Formation, Kottlowski, Seager, and others (1977) Baca Formation, Cather (1980); Cather and Johnson (1980); Johnson, B. D. (1978); Schiebout and Schrodt (1980) Banco Bonito vitrophyre, Pense (1977) Bandelier Tuff, Boden (1980) Basin and Range province, Hawley, Bachman, and Manley (1976) Bernalillo County faults, Machette (1976b) Black Prince Limestone, Spencer, P. K. (1980) Chamita Formation, MacFadden (1976, 1977); Mac-Fadden and Manley (1976) Chinle Formation, Kurtz (1978a) Cibola County, Maxwell, C. H. (1976b) Cliff House Sandstone, Mannhard (1976) Colfax County, MacLachlan (1976); Pillmore and Eicher (1976)Colina Limestone, Nielson, T. W. (1978) Colorado Plateau, Blakey (1978, 1979); Peterson, F., and Kirk (1977) conodonts, Sweet (1977, 1979) Cretaceous, Kirk (1979) crinoids, Webster (1978, 1979) Dakota Sandstone, Asquith and Gilbert (1976); Cobban (1977a, b); Hook, Cobban, and Landis (1980); Noon (1980); Owen and Siemers (1977) Desmoinesian, Gunter (1975) Doña Ana County, Strain (1976) Entrada Sandstone, Sarella (1977) Española Basin, Ingersoll (1979a); Manley (1978a, c, 1979a, b); May (1979); Steinpress (1980) Franklin Mountains, Chaiffetz (1977); Hair (1976, 1977); LeMone and Lovejoy (1976) Fruitland Formation, Erpenbeck and Flores (1979) Galisteo Formation, Lucas (1980); Lucas and Kues (1979) Great Plains province, Hawley, Bachman, and Manley (1976)Greenhorn Limestone, Hattin (1979) Hagan Basin, Ingersoll (1979a) Hagan embayment, Black, B. A. (1979c) Hell Canyon greenstone belt, Woodward, Parchman, and others (1979) Hueco Bolson, Uphoff (1978) Hueco Formation, Kottlowski, Seager, and others (1977); Simpson, R. D., and LeMone (1980) Jarilla Mountains, Strachan (1976) Lake Valley Limestone, Baghdad (1976) Lamar Limestone Member, Tyrrell and others (1978) Madera Formation, Kues and Kietzke (1976); Swenson mammalian correlation, Lucas and Raza (1979) Mancos Shale, Cobban (1977a, b); Hook and Cobban (1980a); Hook, Cobban, and Landis (1980) McKinley County, Best (1973) Menefee Formation, O'Sullivan (1980) Mesaverde Group, Kirk, Huffman, and others (1978); Mannhard (1976)

Mesilla Bolson, Uphoff (1978)

Mogollon-Datil volcanic field, Elston (1976b); Rhodes and Smith (1976) Montoya Group, Repetski and Drewes (1979) Mora County, MacLachlan (1976) Morrison Formation, Corken (1979); Green and Pierson (1977); Riese, W. C., and Brookins (1977) Nacimiento Formation, Taylor, L. H., and Butler (1980) northeastern New Mexico, Kudo (1976a) Orogrande Basin, Greenwood and others (1977) Panther Seep Formation, Hair (1976, 1977) Pedregosa Basin, Greenwood and others (1977) Pennsylvanian-Permian boundary, Clark, D. L. (1979) Permian Basin, Greenwood and others (1977); Hills and Hoenig (1979) Pictured Cliffs Sandstone, Erpenbeck and Flores (1979) Point Lookout Sandstone, Shetiwy (1978) Raton Basin, Fassett (1976); Roberts and others (1976) Rio Grande rift, Hawley ... 78d, e) Rustler Formation, Hiss (1976d) Sacramento Mountain escarpment, Pray (1977a) Sangre de Cristo Mountains, Ingersoll (1979a) San Juan Basin, Alvarez and Vann (1979); Butler, R. F., Lindsay, Jacobs, and Johnson (1976, 1977); Butler, R. F., Lindsay, and Johnson (1979); Erpenbeck and Flores (1979); Fassett (1976, 1977c, 1979); Green and Pierson (1977); Kirk, Huffman, and others (1978); Lindsay, Butler, and Johnson (1979); Lindsay, Butler, and others (1979); Lindsay, Jacobs, and Butler (1978); Lucas and Rigby (1979); Molenaar (1977b, c, 1978); O'Sullivan (1977); Owen and Siemers (1977); Sangree and Widmier (1978, 1979); Stevenson and Baars (1977); Stone, W. J. (1979a); Tsentas and Lucas (1980) San Rafael Group, Wright, J. C. (1978); Wright, J. C., and Dickey (1979a, b); Wright, J. C., Dickey, and Freeman (1979) Santa Fe Group, Lambert, P. W. (1978b); Lovejoy (1976a); Willingham (1979) sedimentation, Asquith, Gilbert, and Smith (1976) Socorro County, Chamberlin (1980); Siemers, W. T. (1978); Siemers, W. T., and Blakestad (1976); Spradlin (1976) Socorro Peak volcanic center, Chamberlin (1980) southern High Plains, Reeves (1976) southwestern New Mexico, LeMone (1977); Richardson, C. B. (1976); Thompson, S., III, LeMone, and Simpson (1977)Tansill Formation, Tyrrell and others (1978) Taos County, MacLachlan (1976) Taos trough, Casey and Scott (1980); McBryde (1979); McBryde and Casey (1979); Scott, A. J., and Casey (1979)Tatum Basin, Cys (1977a) Tempskya, Ash and Read (1976); Zeller (1976) Triassic Ciniza Lake, Ash (1978b) Tucumcari Basin, Roberts and others (1976) U-Bar Formation, Weise and LeMone (1978) Union County, MacLachlan (1976) Zuni Basin, Hook, Cobban, and Landis (1980) structural geology Abiquiu embayment, Wilson, J. E. (1977) aggregate resources, New Mexico State Highway Department (1978) Albuquerque Basin, Kelley, V. C. (1976) Bandelier Tuff, Rogers, M. A., Christie, and Budding Barrera fault, Hayes and Bachman (1979) Basin and Range province, Keller, G. R., and Braile Bernalillo County, Machette (1976b, 1978d) Brockman Hills, Corbitt and others (1977)

Capitan aquifer, Hiss (1976b, c)

Capitan Mountains, Blagbrough (1976) Cedar Mountains, Varnell and others (1976)

Cerro del Cristo Rey uplift, Lovejoy (1976b)

Cibola County, Maxwell, C. H. (1976b) Tularosa Basin, Seager (1980) Cimarron Range, Goodknight (1976) sulfur, Smith, A. R. (1978a, 1980) Colorado Plateau, Davis, G. H. (1978); Keller, G. R., Summit Mountains, Powers, R. S. (1976) and Braile (1979); Keller, G. R., Sinno, and others surface water (1979); Silver, L. T., and McGetchin (1978) chemical analysis, Burnside and Wenrich-Verbeek (1976) Cordillera, Hill, J. G. (1976) Cochiti Reservoir, Brackenridge (1976) crustal structure, Ander (1980); Brown, L. D., Brewer, Colfax County, Pillmore (1976c) and others (1978); Brown, L. D., Chapin, and others Colorado Plateau, Kondrat'yeva and Gorshkov (1979); (1980); Brown, L. D., Kaufman, and Oliver (1977); Lovejoy (1976c) Brown, L. D., Kaufman, and others (1979); Cape and Doña Ana County, Funderburg and Roybal (1977); Herothers (1980); Jurdy (1979); Jurdy and Brocher (1980); nandez (1978) Keller, G. R., and Braile (1979) Keller, G. R., Braile, erosion, Aldon (1976); Contessa (1975); Cooley (1979a, and Schlue (1979); Keller, G. R., and Lowrey (1976); b); Curtis, N. M., Jr. (1976); Leopold (1978); Tech-Long, G. H., and others (1977); Murdock and Jaksha nology Application Center (1978) (1980); Toppozada and Sanford (1976) evapotranspiration, Gay (1979) floods, Burkham (1976); Landwehr and others (1978); Doña Ana County, Uphoff (1977) Embudo fault zone, Muehlberger (1979a) Roeske and others (1978); Scott, A. G., and Kunkler Española Basin, Manley (1978a, c, 1979a); May (1979); (1976)Steinpress (1980) general, U.S. Geol. Survey (1976f) Franklin Mountains, LeMone and Lovejoy (1976); Love-Gila River, Dobyns (1978) joy and Seager (1978) mercury, Brandvold, L. A. (1977) Pecos River, Gay (1979); Havens and Wilkins (1979); Galisteo syncline, Lisenbee (1976a, b) Gallup 2° quadrangle, Hackman and Olson (1977) O'Connor and Cull (1977) Hagan embayment, Black, B. A. (1979c); Sanguinetti pollution, Brandvold, L. A., and others (1980); Hakonson and Loeber (1976) and others (1980) Hidalgo County, Drewes and Thorman (1978) rainfall, Osborn and others (1979); Rabinowitz and others Hueco Basin, Seager (1980); Uphoff (1978) (1977a-c) Jemez lineament, Nielsen, K. C., and Scott (1980) Rio Grande, Belcher and Galloway (1977); Brackenridge John Kerr Peak dome complex, Smith, E. I. (1976) (1976); Dewey and others (1979); Gay and Fritchen Klondike Hills, Corbitt and others (1978); Varnell and (1979); International Boundary and Water Commission others (1976) (1976); Moss and others (1978); New Mexico Water Lemitar Mountains, Chamberlin (1976, 1978) Quality Control Commission (1976); Popp and Laquer Lincoln fold belt, Dennis, J. G., and Häll (1978); Yuras (1980); Smith, R. W., and Popp (1980); Water Resources Engineers (1976) Rio Ojo Caliente, Wenrich-Verbeek (1977, 1978, 1979a); Little Hatchet Mountains, Loring and Loring (1980a) Lucero uplift, Callender and Zilinski (1976); Zilinski (1976) Wenrich-Verbeek and Suits (1979a, b) Mesilla Basin, Uphoff (1978) Rio Puerco, Aldon (1976); Shepherd (1976); Shepherd Mogollon Plateau, Coney (1976a); Rhodes and Smith and Macke (1978) (1976)Rocky Mountains, Lovejoy (1976c) Permian Basin, Djeddi (1979) salinity alleviation, Havens and Wilkins (1979); O'Con-Picuris Range, Muehlberger (1978) nor and Cull (1977) Pinos Altos Range, Brautigam and Norman (1980) salt cedar, Gay and Fritschen (1979) porphyry copper, Mitcham (1978) Sandoval County, Funderberg (1977); Rathbun and Ken-Raton Basin, Woodward and Snyder (1976b) nedy (1978) Rio Arriba County, Broomfield (1977) San Juan Basin, Busby (1979a, b) Gutierrez (1980b) Rio Grande rift, Brown, L. D., Brewer, and others (1978); sediment, Gloss and others (1978) Brown, L. D., Chapin, and others (1980); Callender, seston, Nuhfer (1979) Woodward, and Kelley (1976); Cape and others (1980); temperature, Clement (1978) Keller, G. R., and Braile (1979); Keller, G. R., Braile, trace metals, Dauchy and Brandvold (1976); Popp and and Schlue (1979); Keller, G. R., and Lowrey (1976); Laquer (1980) Oliver, J. E. (1978); Oliver, J. E., and Kaufman (1976); uranium, Brandvold, L. A., and others (1980); Townsend Oliver, J. E., and others (1976); Olsen, K. H., Keller, (1979)and Stewart (1979); Olsen, K. H., Keller, Stewart, and watersheds, Graustein and Armstrong (1978); Gutierrez others (1977); Olsen, K. H., and Stewart (1979); Ram-(1980b); Moore, D. I., and others (1978); U.S. Soil berg and others (1978) Conservation Serv. (1976); Wells, S. G., and White Rio Puerco fault zone, Lucas (1980); Slack and Campbell (1978); White, W. D., and Wells (1979) White Sands Missile Range, Scott, A. G. (1976) Rocky Mountains, Keller, G. R., and Braile (1979) syenites, Loring and Armstrong (1980) Rustler Formation, Hiss (1976d) talc, Fitzsimmons and Kelley (1980) Sacramento Mountain escarpment, Pray (1977a) Tamaroa sequence, Bahlburg (1977); Bahlburg and Silver San Miguel County, Bejnar, W., and Bejnar (1979) (1976); Wermiel (1978) Santa Rita-Hanover axis, Aldrich (1978) Tansill Formation, see Artesia Group Santo Domingo Basin, Sanguinetti and Loeber (1976) tantalites, Hlava (1979) Shiprock, Pollard and Delaney (1976) Taos County Sierra Cuchillo, Jahns and others (1978) Arroyo Peñasco breccia, Vaughan (1978); Vaughan and Silver City Range, Brautigam (1979); Brautigam and Meyers (1976) Norman (1980); Peterson, H. W. (1979); Peterson, H. Aztec 2° quadrangle, DeCicco, Patterson, and Lutz (1978b) W., and Norman (1980) Carson, Hagerman (1976b); U.S. Geol. Survey (1976d) Socorro County, Mott (1976) geomorphology, Colton (1976) Socorro Peak volcanic center, Chamberlin (1980)

Tijeras-Cañoncito fault zone, Lisenbee and others (1979)

Trans-Pecos region, McAnulty (1980); Muehlberger

(1979b)

ground water, Hagerman (1976b)

guidebook, Ingersoll (1979c); Ingersoll and Woodward

Harding pegmatite, Brookins, Chakoumakos and others

(1979); Chakoumakos (1978a, b); Cook, C. W. (1979); Ewing, R. C. (1979); Fenn and Jahns (1979); Hlava (1979); Jahns and Ewing (1976); Luth (1979); Nichols. J. (1980); Register, M. E., and Brookins (1979); Register, M. E., Brookins, and Della Valle (1978); Suchomel (1976); Taggart (1976) Holocene natural history, Martin (1976)

hydrogeology, Burroughs and McFadden (1976)

land classification map, DeCicco, Patterson, and Lutz (1978b, d, 1980)

magnetic survey, Geometrics (1979b); U.S. Geol. Survey (1976c, d)

No Agua dome complex, Brookins, Eppler, and Elston (1977); Naert and others (1980)

Ojo Caliente 71/2' quadrangle, Treimain (1977, 1978)

Peñasco-Dixon Precambrian, Long, P. E. (1976); Long, P. E., and Luth (1979)

Precambrian, Kirschner (1979)

Questa caldera, Lipman (1979)

Raton 2° quadrangle, DeCicco, Patterson, and Lutz (1978d, 1980); Geometrics (1979b); Morgan, T. L., and Broxton

Rio Hondo-Red River divide geology, Restrepo (1972) road logs, Budding, Robertson, and others (1979); Hawley, Burroughs, and others (1978); Muehlberger and Hawley (1978)

San Antonio Mountain, Brookins, Eppler, and Elston (1977); Eppler (1976)

Servilleta basalts, Crossey (1979)

stratigraphy, MacLachlan (1976)

Wheeler Peak, U.S. Geol. Survey (1976c)

Wismath crater, Brookins, Eppler, and Elston (1977)

Taos Plateau volcanic field, Brookins and Zimmerman (1980); Crossey (1979); Dungas and others (1978); Lipman and Mehnert (1979); Lofgren (1979); Pronold (1979); Williams, S., and Murthy (1978, 1979)

Taos Range, Condie (1979)

Taos trough, Casey (1979a, b, 1980a, b); Casey and Scott (1980); Cordell, L. (1976d, 1978a); McBryde (1979); McBryde and Casey (1979); Scott, A. J., and Casey (1979)

Tatum Basin, Cys (1977a)

Taylor Creek Rhyolite, Lufkin (1977)

tectonics

Abo Formation, Adams, R. D. (1978)

Albuquerque Basin, Kelley, V. C. (1976)

Basin and Range province, Eaton (1979b); Elston (1976c); Livaccari (1979); Lovejoy (1977); Mutschler and others

Cenozoic volcanism, Snyder, W. S., and others (1976) Colorado Plateau, Baars (1979d); Bird (1979); Blakey (1978); Dickinson and Suczek (1979); Livaccari (1979); McGetchin, Burke, and others (1979); Silver, L. T., and McGetchin (1978); Zoback (1979)

copper, Drewes (1978)

Delaware Basin, Hills (1979); Shurbet and Cebull (1978) Diablo Plateau, Brown, L. D., Reilinger, and Hagstrum (1978); Reilinger, Brown, and Powers (1980)

El Oro gneiss dome, Budding and Cepeda (1979)

El Paso region, Uphoff (1979)

fluorite, Van Alstine (1976)

Galisteo syncline, Lisenbee (1976a, b)

general, Olsen, K. H., Cash, and Bridwell (1976); Rona (1977); Woodward and Northrop (1976)

geochronology, Leeman (1979)

Hidalgo County, Elston and Erb (1977); Erb and Elston (1977)

Holder Formation, Dunning (1978)

Laramide orogeny, Coney (1976b)

Lemitar Mountains, McLemore (1980b)

Lincoln fold belt, Dennis, J. G., and Häll (1978); Yuras

Madera Formation, Adams, R. D. (1978)

Mesozoic, Hamilton, W. (1978)

Mississippian, Craig, L. C., and Connor (1979); Mapel and others (1979); Varnes (1979)

Morrison Formation, Saucier (1976)

ore deposits, Mutschler and others (1978); Rona (1977); Tooker (1978)

Otero Platform, Black, B. A. (1976a, b)

paleosubduction geometries, Keith (1978)

Palo Duro Basin, Handford and others (1980)

Peñasco uplift, Adams, R. D. (1980)

Permian Basin, Djeddi (1978); Elam (1980); Hills (1980); Keller, G. R., Hills, and Djeddi (1980a)

petroleum and natural gas, Thompson, S., III (1976)

Precambrian, Condie (1980a)

Raton Basin, Woodward and Snyder (1976a, b)

Rio Grande rift, Baldridge (1979d); Bridwell (1976, 1977); Bridwell and Anderson (1980); Brown, L. D., Miesen, and others (1980); Burke (1978); Chapin (1976, 1978a, 1979a, b); Eaton (1979a); Elston and Bornhorst (1978, 1979); Golombeck (1980); Kelley, V. C. (1979a); Livaccari (1979); Lovejoy (1976d); Mutschler and others (1978); Reilinger, Brown, and Jurkowski (1980); Reilinger and York (1978); Riecker (1979); Sales (1978); Seager (1977); Woodward (1977); Woodward and Callender (1977b); Woodward, Callender, and others (1978) Rio Puerco fault zone, Slack and Campbell (1976)

Rocky Mountains, Baltz (1979); Chapin (1979b); Kluth and Coney (1980); Woodward (1976, 1978)

Sacramento Mountains, Delgado (1977a)

sandstone compositions, Dickinson and Suczek (1979) San Juan Basin, Stevenson and Baars (1977); Woodward

and Callender (1977a) San Mateo Mountains, Deal and Rhodes (1976) Santa Fe country, Woodward and Ingersoll (1979)

Taos trough, Casey (1979a, 1980a, b); Casey and Scott (1980)

tephrochronology

Española Basin, Manley (1976b)

Tertiary

cauldrons and mineral resources, Elston (1978b, c); Elston, Rhodes, and Erb (1976)

flora, U.S. Geol. Survey (1979i)

general, Wolf (1979)

Grant County, Cunningham, J. E. (1979)

Ladron Mountains, Callender and Zilinski (1976) Lucero uplift, Callender and Zilinski (1976); Gambill

(1980)

paleontology, Schiebout (1979) Rio Grande rift, Axelrod and Bailey (1976)

San Juan Basin, Butler, R. F., Lindsay, Jacobs, and Johnson (1976, 1977); Butler, R. F., Lindsay, and Johnson (1979); Vizcaino and O'Neill (1977)

Santa Rita-Hanover axis, Aldrich (1978)

soil science, Schiebout (1979)

southwestern New Mexico, Elston (1976a)

White Mountains, Berry (1976)

Tesuque Formation, see Santa Fe Group

Tesuque Pueblo

hydrology, Balch and Clark (1978); Hearne (1980a, b)

Tewa Group

Bandelier Tuff, Baldridge and others (1980); Boden (1980); Dondanville (1979); Eichelberger and Koch (1979); Heiken and others (1976); Rogers, M. A., and Burton (1980); Rogers, M. A., Christie, and Budding (1980); Shaw, H. R., and others (1976); Sommer (1977, 1978); Warshaw and Smith (1980); Wohletz and Sheridan (1976) Battleship Rock Welded Tuff, McCormick (1980); McCormick and Smyth (1980)

Cerro Toledo Rhyolite, Izett and others (1978)

general, Prigmore (1978)

Dakota Formation, Della Valle and Brookins (1980b) exploration, Gableman (1977)

Florida Mountains, Brookins, Rautman, and Corbitt (1978)

Mancos Shale, Della Valle and Brookins (1980b) Morrison Formation, Della Valle and Brookins (1980b) Zuni Mountains, Brookins and Rautman (1978) Tierra Amarilla Grant, Butler, Charles (1977)

Tijeras-Cañoncito fault system, Lisenbee and others (1979) Tijeras greenstone, Condie (1980b)

tin

Black Range, Lufkin (1977)

Todilto Limestone, see San Rafael Group

topaz rhyolites, Bikun and others (1980); Burt, Bikun, and Christiansen (1980); Christiansen, E. H., and others (1980) **Torrance County**

Abo Pass, Brocher (1978); Jurdy (1978)

Albuquerque 2° quadrangle, DeCicco, Patterson, and Lutz (1978a); Geometrics (1979a); Maassen, Bolivar, and others (1979); Wyant and Olson (1978)

Arroyo de Yrisarri, Hagerman (1976a)

Bosque Peak 71/2' quadrangle, Edwards, D. L. (1978) Fort Sumner 2° quadrangle, DeCicco and Patterson (1980g) hydrology, Hagerman (1976a)

land classification map, DeCicco and Patterson (1980b,

g); DeCicco, Patterson, and Lutz (1978a, 1979) Lobo Hills, Loring and Armstrong (1980)

magnetic survey, Geometrics (1979a, b); High Life Helicopters and Geodata International (1979)

Pedernal Hills, Loring and Armstrong (1980)

Red Cloud mining district, Modreski (1979)

Santa Fe 2° quadrangle, DeCicco and Patterson (1980b); Geometrics (1979b)

Socorro 2º quadrangle, DeCicco, Patterson, and Lutz (1979); High Life Helicopters and Geodata International (1979);

Tortugas Mountains, Keller, G. R. (1979); King, W. E., and Kelley (1980)

Trans-Pecos region

Bouguer gravity surveys, Keller, G. R., and Covert (1977); Western and Aiken (1977)

Castile Formation, Kirkland and Evans (1980)

Cenozoic faulting, Muehlberger (1979b)

Gatuna Formation, Kelley, V. C. (1980)

general, McAnulty (1978); Veldhuluis and Keller (1980) guidebook, Dickerson and Hoffer (1980)

magmatic province, Barker, D. S. (1977, 1979a, b); Barker, D. S., Long, and others (1977)

magnetic surveys, Keller, G. R., and Covert (1977)

Montoya Group, Howe (1979) Precambrian, Denison (1980)

Tres Hermanos Sandstone Member, Cobban and Hook (1979, 1980)

Tres Piedras Granite, Maxon (1976) Triassic

Ciniza Lake, Ash (1978a-f); Ash, Dean, and others (1978); Dean (1978); Stone, J. F. (1978); Tasch (1978); Weber, D. J., and Lawler (1978)

Quay County, Finch and others (1976)

San Juan Basin, O'Sullivan (1977) Trinidad Sandstone, Pillmore and Maberry (1976)

Truchas Range, Grambling (1978, 1979a-c) Tucumcari Basin

Mesa Rica Sandstone, Gage and Asquith (1977a, b) stratigraphy, Roberts and others (1976)

Tularosa Basin

energy-water complex, Lansford and others (1976b, c); Reiter, M. A., and others (1976); U.S. Dept. Energy

faulting, Seager (1980) geophysical model, Reinke and Herrin (1979)

gravity survey, Healey and others (1978)

ground water, MacMillian and others (1976); U.S. Dept. Energy (1979)

gypsiferous playas, Sakai and others (1976)

hydrology, McLean and Garza (1977)

seismicity, Hoffman and Harding (1977); Reinke (1978)

tungsten, Moench and Erickson (1980)

turquoise, Weber, R. H. (1979b)

U-Bar Formation, see Bisbee Group Uncompangre uplift, Casey and Scott (1979)

underground waste disposal, see radioactive-waste disposal

Union County

clastics, Reynolds, D. M. (1979); Reynolds, D. M., and Gries (1980)

Clayton volcanic field, Phelps, Blanchard, and others (1979); Phelps, Blanchard, and Stormer (1980); Stormer

Dalhart 2° quadrangle, DeCicco, Patterson, and Robinson (1980); Morgan, T. L., and others (1980)

Dry Cimarron River valley, Reynolds, D. M., and Gries (1980)

land classification map, DeCicco and Patterson (1980h); DeCicco, Patterson, and Robinson (1980); U.S. Geol. Survey (1980g)

scoria, Cima (1978)

stratigraphy, MacLachlan (1976)

Tucumcari 2° quadrangle, DeCicco and Patterson (1980h); U.S. Geol. Survey (1980g)

uranium, Abbott (1979)

Abo Formation, Langford (1980)

Albuquerque 2° quadrangle, Maassen, Bolivar, and others

Ambrosia Lake uranium district, Brady and Rice (1977); Falkowski (1980a, b); Fitch (1977); Foster, J. F., and Quintanar (1980); Smith, D. A., and Peterson (1980); Vassiliou (1980a, b)

Aztec 2° quadrangle, Bolivar (1978)

Black Range, Burt and Sheridan (1980); Correa (1980); Sheridan and Burt (1979) Catron County, Morgan, T. L., and others (1980c)

Chaco Canyon, Brookins (1979e); Hicks and others (1980) Clifton 2° quadrangle, Sharp and others (1978) coal, Styron and others (1979)

Colorado Plateau, Langford (1977); Ortiz, Ethridge, and Sunada (1980); Ortiz and others (1980); Smith, L. T. (1976)

Dakota Formation, Della Valle and Brookins (1980b); Pierson and Green (1977, 1980)

Dalhart 2° quadrangle, Morgan, T. L., and others (1980a) Dockum Group, McGowen (1979); McGowen and others

Douglas 2° quadrangle, Sharp and others (1978)

Estancia Valley, Brookins and Olsen (1977); Olsen, C. E. (1977)

exploration methods, Bivins and others (1980); Brady and Rice (1977); Brookins, Riese, and Lee (1977); Chenoweth and Holen (1980); DeVoto and Mead (1979); DeVoto, Mead, Bergquist, and Martin (1977); DeVoto, Mead, Martin, and Bergquist (1980); Fitch (1980); Grutt (1977); Hayslip, Fuller, and others (1980); Hayslip and Renault (1976); Leach and Puchlick (1976); Reimer and others (1979); Reynolds, R. L., and Goldhaber (1978a, b); Rhett (1980); Rice and Reimer (1977); Riese, W. C., Lee, and others (1979); Veal (1977)

Florida Mountains, Brookins, Rautman, and Corbitt (1978) Galisteo Formation, Moore, J. C. (1979)

Gallup 2° quadrangle, Hackman and Olson (1977); Maassen, LaDelfe, and others (1980)

general, Anderson, O. J. (1978b); Anderson, O. J., Page, and Arnold (1977); Barr and others (1979); Bendix Field Engineering Corp. (1980a, b); Bivens and others (1980); Brierley (1977, 1979); Brookins and Della Valle (1977); Brooks, Robert (1978); Buddecke (1977); Burnside and Wenrich-Verbeek (1976); Chenoweth (1976); Coleman (1978); Energy Research and Development Administration (1976a, b); Engineering and Mining Journal (1976); Guarnera (1978); Langford (1977); Li and Wiebmer

(1978); Perkins (1979, 1980) Rautman (1976, 1977a. b); Rautman and Kottlowski (1977); Robinson, W. P. (1978)

geochronology, Brookins, Lee, and Shafiqullah (1977); Lee, M. J., and Brookins (1978); Lee, M. J., Brookins, and Shafiqullah (1977)

Grants uranium district, Brookins (1976a-c, 1977c, d, 1978b, d, 1979a-d, 1980f); Brookins, Riese, and Lee (1977); Chenoweth and Holen (1980); DeVoto and Mead (1979); DeVoto, Mead, Bergquist, and Martin (1977); DeVoto, Mead, Martin, and Bergquist (1980); Ethridge, Ortiz, Granger, and others (1980); Ethridge, Ortiz, Sunada, and others (1980); Fitch (1980); Granger and others (1980); Green (1979, 1980); Guertin (1979); Huang (1979); Lee, M. J. (1976a); Livingston (1980); Melvin (1976); Moore, S. C., and Lavery (1980); Place and others (1980); Rautman (1980); Riese, W. C., Brookins, and Della Valle (1978, 1980) Riese, W. C., Brookins, and Lee (1978); Riese, W. C., Lee, and Brookins (1977); Saucier (1977); Thompson, D. T. (1980); Wentworth and others (1980); Wright, R. J. (1980)

ground water, Ethridge, Ortiz, Granger, and others (1980); Hiss (1977); Kaufman, R. F., and others (1976, 1977); Ortiz and others (1980); Townsend (1979)

Hidalgo County, Walton and others (1980)

indicator plants, Massingill (1979b)

isotope disequilibria, Osmond and Cowart (1980)

Jackpile-Paguate deposit, Adams, S. S., and others (1978); Beck, R. G., and others (1980)

Laguna district, Jacobsen (1980)

Lincoln County, Black, K. D. (1977a)

Mancos Shale, Della Valle and Brookins (1980b)

McKinley County, Best (1973); Chemical Projects, Ltd. (1978)

migration, Gableman (1977)

mineral springs, Felmlee and Cadigan (1978)

Morrison Formation, Abbott (1979); Austin, S. R. (1979, 1980); Baird and Martin (1979); Baird, Martin, and Lowry (1980); Galloway, W. E. (1978, 1979); Della Valle and Brookins (1980b); Hicks and others (1980); Huffman, Kirk, and Corken (1980); Langford (1977); Lee, M. J. (1976a, b); Lee, M. J., and Brookins (1978); Peterson, R. J. (1980); Rhett (1980); Riese, W. C. (1977, 1980); Riese, W. C., and Brookins (1976, 1977, 1978, 1979, 1980); Saucier (1976); Tessendorf (1980); Turner-Peterson (1980); Turner-Peterson and others (1980); Wentworth and others (1980)

Mount Taylor volcanic field, Riese, W. C. (1977, 1980); Riese, W. C., and Brookins (1976, 1977, 1978, 1979,

NURE Program, Aamodt, Bunker, and others (1979); Aamodt, Hansel, and others (1977); Aamodt, Waterbury, and others (1979); Bendix Field Engineering Corporation (1980a, b); Bolivar (1978); Bolivar and others (1980); Brookins (1977d, 1978d, 1979c, e); Brookins and Olsen (1977); Broxton (1978); Christiansen, E. H., Bikun, and Burt (1980); Correa (1980); Earth Satellite Corporation (1979); Geodata International (1976a-c, 1978, 1980a, b); Geometrics (1979a, b); High Life Helicopters and Geodata International (1979); Lease (1979); Maassen, Bolivar, and others (1979); Maassen, LaDelfe, and others (1980); Maassen and others (1980); Morgan, T. L., and Broxton (1978); Morgan, T. L., and others (1980ac); Morris, W. A., Bunker, and others (1979); Morris, W. A., Bunker, and Steinhaus (1979); Nichols, C. E., and others (1976); Nunes and Weaver (1978); Olsen, C. E. (1977); Planner and others (1980); Reid, B. E., and others (1980); Rice and Reimer (1977); Sharp and others (1978); Texas Instruments (1978, 1979a, b); Vizcaino and O'Neill (1977); Walton and others (1980); Warren, R. G., and Nunes (1978); Weaver and others (1978); Wenrich-Verbeek (1977)

Ogallala Formation or aquifer, Reeves (1977, 1978)

organic chemistry, Leventhal (1979, 1980); Leventhal and Threlkeld (1978); Squyres (1980); Vassiliou (1980a, b) Permian, Campbell, J. A., and Steele (1976)

pitchblende, Langford (1977)

quartz thermoluminescence, Hayslip, Fuller, and others (1980); Hayslip and Renault (1976)

Ouay County, Finch and others (1976)

Raton 2° quadrangle, Morgan, T. L., and Broxton (1978); Reid, B. E., and others (1980)

remote sensing, Earth Satellite Corporation (1979); Gableman (1978)

Rio Ojo Caliente, Wenrich-Verbeek (1977, 1978, 1979a, b); Wenrich-Verbeek and Suits (1979a, b)

Saint Johns 2° quadrangle, Maassen and others (1980); Sharp and others (1978)

Sandoval County, Kozusko and Saucier (1980); Ridgley (1979a, c, 1980)

sandstone, Brookins and Della Valle (1979); Renault and Hayslip (1977)

San Juan Basin, Brookins, Della Valle, and Balagna (1979); Brookins, Della Valle, and Lee (1978b); Brookins, Lee. and Riese (1977); Chenoweth (1977); Clark, D. S. (1980); Cooley (1979a, b); Huffman and Lupe (1977); Stone, W. J. (1979c); Vizcaino and O'Neill (1977)

San Rafael Group, Langford (1980)

Santa Fe County, Chenoweth (1979)

Santa Fe 2° quadrangle, Bolivar and others (1980)

sedimentation, Aamodt, Bunker, and others (1979); Aamodt, Hansel, and others (1977); Aamodt, Waterbury, and others (1979)

Shiprock 2° quadrangle, Morgan, T. L., and others (1980b) Sierra Cuchillo, Correa (1980)

Silver City 2° quadrangle, Sharp and others (1978)

Socorro County, Chapin, Osburn, and others (1979)

Socorro 2° quadrangle, Planner and others (1980) solution mining, Conine (1980); Riese, A. C. and Popp

stratigraphy, Langford (1980)

surface water, Brandvold, L. A., and others (1980); Townsend (1979)

tailings, Beard and others (1980)

thermoluminescence, Renault and Hayslip (1977)

Todilto Limestone, Rawson (1976, 1980)

Tularosa 2° quadrangle, Broxton (1978)

Union County, Abbott (1979) vegetation, Marple (1979); Marple and others (1978)

waste water, City of Gallup (1977)

Zuni Mountains, Brookins and Rautman (1978) Ute Mountain Indian Reservation, Henkes and others (1976)

Uvas Valley, Clemons (1978, 1979)

Valencia County

see also Cibola County

Cebolleta Grant, Boyd (1976)

Chimney Hill, Ander, Heinken, and others (1979)

ground water, Boyd (1976)

hydrogeology, Brod (1979)

land classification map, DeCicco, Patterson, and Lutz (1979)

Los Lunas volcanics, Brookins, Kasten, and Kudo (1980) Lucero Mesa, Baldridge, Perry, and Gladney (1980); Kues and Kietzke (1976)

Lucero uplift, Fisher, R. A. (1979); Gambill (1980) magnetic survey, High Life Helicopters and Geodata In-

ternational (1979) road logs, Hawley, (1978c); Hawley, Chapin, Chamber-

lin, and others (1978); Saucier (1979b) soil survey, Hacker (1977)

Socorro 2º quadrangle, DeCicco, Patterson, and Lutz (1979); High Life Helicopters and Geodata International

Tome Hill, Brookins, Kasten, and Kudo (1980)

Valles caldera, Bailey (1976); Boden (1980); Dondanville (1979); Goff (1980); Jambon and Shelby (1980); Keller, G. V., Grose, and Crewdson (1978); Kolstad and McGetchin (1978); Lambert, S. J. (1976); Lambert, S. J., and Epstein (1980); Langhorst (1980); Shaw, H. R., and others (1976); Sherwood and Marquis (1980); Smith, R. L. (1980); Spence, W., Gross, and Jaksha (1979)

Valles Rhyolite

Banco Bonito Member, Pense (1977)

Valley of Fires State Park, Faris and Renault (1980); Weber, R. H. (1979a)

vanadinite, Narsavage (1979)

Vermejo Formation, Flores (1980)

Victorio Mountains, Thorman and Drewes (1980) volcanics

Aden-Afton basalt field, Stuart (1979)

Albuquerque Basin, Kelley, V. C., and Kudo (1978); Kudo and others (1977)

Alegros Mountain area, Jones, D. P. (1980)

A-L Peak tuff, Chapin and Deal (1976)

Animas Mountains, Erb (1979)

Arroyo Peñasco collapse breccia, Vaughan (1978); Vaughan and Meyers (1976)

Bandelier Tuff, Heiken and others (1976); Rogers, M. A., and Burton (1980); Rogers, M.A., Christie, and Budding (1980); Wohletz and Sheridan (1976)

Bandera Crater, Gallagher (1973)

Basin and Range province, Damon (1976); Elston (1976, 1977); Elston and Erb (1980); Mutschler and others (1978) Bear Mountain intrusive, Peterson, H. W., and Norman (1980)

Bell Top Formation tuffs, Clemons (1976b)

Bernalillo County, Baldridge, Perry, and Gladney (1980); Renault (1978b)

Black Range, Burt and Sheridan (1980); Erickson and Wedow (1976); Fodor (1976, 1978); Sheridan and Burt (1979)

Bursum cauldron, Elston (1978a)

Carlsbad evaporites, Loehr (1979)

Carrizozo basalt field, Faris (1980); Faris and Renault (1980)

Catron County, Bikerman (1976)

Cenozoic-centers map, Luedke and Smith (1979)

Cerros del Rio, Aubele (1978a, b, 1979)

Chuska Mountains, Ehrenberg (1977)

Clayton volcanic field, Phelps, Blanchard, and others (1979); Phelps, Blanchard, and Stormer (1980); Stormer (1978)

Colorado Plateau, Moore, R. B. (1978); Roden and others (1979); Smith, D. L., and Levy (1976)

Cone Peak rhyolite, Black, K. D. (1977a)

copper, Feis (1978)

Cow Creek ultramafic complex, Wyman, W. F. (1980b) Crosby Mountains, Bornhorst (1976)

Cuchillo Mountain laccolith, McMillan (1979); McMillan and Jahns (1979)

Delaware Basin, Calzia and Hiss (1978)

Doña Ana cauldron, Seager (1978a)

El Oro gneiss dome, Budding and Cepeda (1979)

Emory cauldron, Seager (1978b)

Engle Basin, Brookins, Warren, and Kudo (1980)

Española Basin, Manley (1976a, b); Manley and Naeser (1977)

Florida Mountains, Brookins (1980a, g)

general, Aubele and others (1976); Babcock, R. S. (1979); Barker, F., Arth, and others (1976); Barker, F., Friedman, and others (1976); Leeman (1979); Yoder (1976) Grant County, Aldrich, (1976); Cunningham, J. E. (1979); Wahl (1980)

Green Knobs diatreme, Smith, D. L., and Levy (1976) Hidalgo County, Deal, Elston, and others (1978); Elston and Erb (1977); Erb (1978, 1979); Erb and Elston (1977); Wahl (1980)

Hunt's Hole, Stuart (1979); Stuart and Brenner (1979)

Jemez lineament, Laughlin, Brookins, and Damon (1976); Laughlin, Brookins, Damon, and Shafiqullah (1979) Jemez Mountains, Bailey and Smith (1978); Eichelberger and Koch (1979); Smith, R. L., and others (1978) John Kerr Peak dome complex, Smith, E. I. (1976)

Jovita Hills, Socorro County, Spradlin (1976)

Kilbourne Hole, Minear and Irving (1979); Padovani (1977); Padovani and Carter (1976); Saito, Basu, and others (1977); Saito, Menzies, and others (1978); Stuart and Brenner (1979)

Ladron pluton, White, D. L. (1978a, b)

Laramide magmas, Allan and Swan (1978)

Los Medaños dike, Elliot (1976)

Magdalena pluton, White, D. L. (1978a, b)

Magollon–Datil volcanic field, Berry (1976); Bornhorst (1980); Bornhorst, Elston, and Della Valle (1980); Chapin and Elston (1978); Dodge (1979); Elston (1976b); Krohn (1976); Lindley (1979); Lindley and others (1980); Ratte and Grothro (1979); Rhodes (1976a, b); Rhodes and Smith (1976); Stinnett (1980); Stinnett and Stueber (1976) Mogollon Plateau, Coney (1976a); Elston, Rhodes, Coney, and Deal (1976); Smith, E. I., and others (1976);

Strangway and others (1976) Montoso maar, Aubele (1976)

Mount Taylor volcanic field, Crumpler (1976, 1977, 1978, 1980); Lipman and Mehnert (1980); Ridley (1979)

Mount Withington cauldron, Chapin and Deal (1976)

Navajo volcanic field, Ehrenberg (1978, 1979); Ehrenberg and Griffen (1979); Roden (1978)

northeastern New Mexico, Kudo (1976a)

Ocate volcanic field, O'Neill and Mehnert (1980a, b)

Ojita pluton, White, D. L. (1978a, b)

Ojo Caliente tuff ring, May (1977)

Organ cauldron, Macer (1978); Seager (1978a); Seager and Brown (1978)

Oscura pluton, White, D. L. (1978a, b)

Pecos greenstone belt, Robertson, J. M., Condie, and Mathewson (1978); Robertson, J. M., and Moench (1979) Peloncillo Mountains, Erb (1979)

petroleum and natural gas, Thompson, S., III (1976)

Potrillo Basalt field, Berman, R. G., and Reid (1976); Bersch (1977); Hoffer (1976a, b)

Precambrian granitic plutons, Condie (1978)

Questa caldera, Lipman (1979)

Rabb Park rhyolite complex, O'Brient (1980)

radioactive-waste disposal, Elliot (1976)

Raton volcanic field, Phelps, Blanchard, and others (1979); Phelps, Blanchard, and Stormer (1980); Stormer (1978) Riley maar, Bersch (1977); Saito, Menzies, and others (1978); Schwartz and Irving (1978)

Rio Grande rift, Baldridge (1976, 1977, 1978, 1979a-c); Chapin (1979b); Elston (1977); Elston and Bornhorst (1978, 1979); Kudo (1976b); Mutschler and others (1978); Reid, J. B. (1976, 1978); Reid, J. B., and Woods (1978a) Renault (1978a); Stormer (1978); Williams, S., and Murthy (1978, 1979); Zimmerman and Kudo (1978, 1979b)

Sandia Mountains, Bolton (1976); Thompson, T. B., and others (1980)

San Juan County, Delaney (1980); Delaney and Pollard (1978); Pollard and Delaney (1978)

San Mateo Mountains, Deal and Rhodes (1976)

San Pedro Mountains, Wobus and Hedges (1980)

scoria, Cima (1978); Osburn, J. C. (1980)

Servilleta basalts, Crossey (1979)

Shiprock, Delaney (1980); Delaney and Pollard (1978); Pollard and Delaney (1978)

Sierra Blanca igneous complex, Black, K. D. (1977b) Sierra County, Loeber (1976)

Sierra de las Uvas ash-flow field, Clemons (1976a) Socorro Peak volcanic center, Chamberlin (1980)

southern High Plains, Stormer (1978)

southwestern New Mexico, Elston (1976a); Elston and Northrup (1976)

Taos Plateau volcanic field, Brookins and Zimmerman (1980); Crossey (1979); Dungan and others (1978); Lipman and Mehnert (1979); Pronold (1979); Williams, S., and Murthy (1978, 1979)

tectonics, Keith (1978); Snyder, W. S., and others (1976) Tertiary cauldrons, Elston (1978b, c); Elston, Rhodes, and Erb (1976); Erb (1978)

Trans-Pecos magmatic province, Barker, D. S. (1977, 1979a, b); Barker, D. S., and Hodges (1977); Barker, D. S., Long, and others (1977)

uranium, Burt and Sheridan (1980); Sheridan and Burt (1979); Walton and others (1980)

Valencia County, Baldridge, Perry, and Gladney (1980); Brookins, Kasten, and Kudo (1980); Renault (1978b) Valles caldera, Bailey (1976); Jambon and Shelby (1980);

Lambert, S. J. (1976); Smith, R. L. (1980) Valley of Fires State Park, Weber, R. H. (1979a)

Wagon Mound basalt flow, Stewart, D. C., and Windom (1979)

Washington Pass volcanic center, Ehrenberg (1977) White Mountains, Berry (1976)

Waste Isolation Pilot Plant (WIPP), see radioactive-waste disposal

Westwater Canyon Sandstone, see Morrison Formation White Mountain Wilderness, Cordell, L. (1979c) White Mountains volcanic province, Berry (1976) White Sands Missile Range

ground water, Kelly, T. E., and Hearne (1976); Wilson, C. A., White, Roybal, and Gonzales (1978) hydrology, Cruz (1976, 1977, 1978, 1979, 1980); Scott,

A. G. (1976) missile craters, Moore, H. J. (1976)

petroleum and natural gas, Foster, R. W. (1978b) soil survey, Neher and Bailey (1976) Victorio Peak, Dolphin and others (1978)

Wind Mountain, Burton, J. C., and Jackson (1979) x-ray diffraction, Renault and Iovenitti (1978)

Yates Formation, see Artesia Group Zia Sand, Gawne (1976)

zinc, Alminas, Watts, and others (1978d); Zantop (1980) zircons, Heimlich (1976)

Zuni Basin, Hook, Cobban, and Landis (1980)

Zuni Mountains, Brookins (1978a); Brookins, Della Valle, and Lee (1977, 1978a); Brookins and Rautman (1978); Langford (1980); Laughlin and West (1976)

Editor:

Jane Calvert Love

Type faces:

Text in 8-pt. English Times, leaded one point Index in 7-pt. English Times, leaded one point Display heads in 18-pt. English Times

Presswork:

Miehle Single Color Offset Harris Single Color Offset

Binding:

Sewn with softbound cover

Paper:

Cover on 17 pt. Kivar Text on 60-lb. White Offset

Ink:

Cover—PMS 320 Text—Black

Quantity:

1000