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by Jane C. Love, Carol A. Hjellming, and Tobias M. Click

New Mexico Bureau of Mines and Mineral Resources, Socorro, New Mexico 87801

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Preface

The 1927 law that established the Bureau of Mines and Mineral Resources for the State of New Mexico included among the Bureau's responsibilities, "to collect a library and bibliography of literature pertaining to the progress of geology, mining, milling, smelting and the production of oil and natural gas and refining the same in New Mexico." Appropriately, Bulletin 5, *Geologic literature of New Mexico*, was published in 1930. Twelve other bibliographies of New Mexico geology and mineral technology have been published by the Bureau since 1930. This volume, Bulletin 151, is a compilation of approximately 1200 references to New Mexico geology published during 1987. These bibliographies provide researchers with a way to search comprehensively the geologic literature of the state published since the middle of the 19th century. The bibliographic literature of the Bureau also includes topical and annotated bibliographies available as published bulletins or as reproducible open-file reports (see listing on reverse side of front cover).

The bibliography cites literature that (1) deals directly with the geology of New Mexico, (2) describes geology outside of the state pertinent to New Mexico, and (3) includes New Mexico in a regional study of the Southwest. Bureau bibliographies reflect the growth of the geosciences, expanding to include geophysical, geochemical, geothermal, and paleontological investigations; the quantity, quality, and protection of water resources; geologic hazards and engineering geology; the safe disposal of hazardous and radioactive wastes; technology supporting economical and enhanced recovery of mineral and energy resources; and site reclamation.

References include articles published in scientific journals; reports, serials, and monographs published by federal and state agencies, professional societies, research institutions, and scientific publishers; abstracts of papers presented at professional meetings; and research papers, theses, and dissertations completed as part of M.S. and Ph.D. degree requirements. Additional information regarding publication elsewhere of the same paper or its abstract and

information regarding the availability of a report through a distributing agency are appended to the reference when known.

This volume comprises (1) a list of publications, from which references were compiled, and their abbreviations and a guide to the identification of acronyms that the reader may encounter; (2) the references arranged alphabetically by senior author; junior authors with cross references to the senior author are included in this alphabetical arrangement; and (3) an index, in which each reference is listed one or more times by subject, geographic location, age, and/or rock-stratigraphic unit.

Since 1981 the New Mexico Bureau of Mines and Mineral Resources has been compiling and maintaining its own annual bibliographic computer data files. These data files are continuously updated, and retrieval of data not yet published can be requested through the Bureau's Editing Department.

Acknowledgments—Significant contributions were made by many at the New Mexico Bureau of Mines and Mineral Resources. We are grateful to the geologists who brought to our attention those items not widely known or distributed. The cooperative exchange of information with other agencies of the State of New Mexico as well as those of neighboring states was an important contribution. We are grateful to the librarians on the campus of New Mexico Institute of Mining and Technology for alerting us to acquisitions relevant to our volume. Without this kind of support the thoroughness of our work would be jeopardized. We also thank Michael Coburn, James Gridley, Beth Seagen, Nyleen Troxel Stowe, and Gayla Williford.

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Socorro, New Mexico
October 28, 1994

New Mexico Bureau of Mines
and Mineral Resources

Publications and abbreviations

- Univ. Alabama, Coalbed Methane Symp., Proc.; Dept. Chemistry, Rept.: University of Alabama, Coalbed Methane Symposium, Proceedings; Department of Chemistry, Report. Tuscaloosa, Alabama
- Am. Assoc. Petroleum Geologists, Bull.; Studies in Geology: American Association of Petroleum Geologists, Bulletin; Studies in Geology. Tulsa, Oklahoma
- Am. Assoc. Stratigraphic Palynologists, 20th Ann. Mtg.: American Association of Stratigraphic Palynologists, 20th Annual Meeting, October 7–10, 1987, Halifax, Nova Scotia, Canada
- Am. Geophys. Union, Ann. Mtg., Proc.; (EOS), Trans.: American Geophysical Union, Annual Meeting, Proceedings; (EOS), Transactions. Washington, D.C.
- 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. Soc. Civil Engineers, Proc.: American Society of Civil Engineers, Proceedings (conference), May 12–14, 1987, New Orleans, Louisiana
- Am. Water Resources Assoc., 23rd Ann. Conf. and Symp., Proc.; Monograph Ser.: American Water Resources Association, 23rd Annual Conference and Symposium (November 1–6, 1987, Salt Lake City, Utah), Proceedings; Monograph Series. Bethesda, Maryland
- Arizona Bureau Geology Mineral Tech., Spec. Paper: Arizona Bureau of Geology and Mineral Technology, Special Paper. Tucson, Arizona
- Arizona Geol. Soc., Digest: Arizona Geological Society, Digest. Tucson, Arizona
- Arizona–Nevada Acad. Sci., Jour.: Arizona–Nevada Academy of Science, Journal. Flagstaff, Arizona
- Assoc. Eng. Geologists, Bull.; 30th Ann. Mtg., Abs. and Program: Association of Engineering Geologists, Bulletin; 30th Annual Meeting, Abstracts and Program. Sudbury, Massachusetts
- Atomnaya Energiya: Akademiya Nauk SSSR Gosudarstvennyy Komitet Soveta Ministrov SSSR po Ispol'zovaniyu Atomnoy Energii. Moscow, Russian Federation
- Bauingenieur: Der Bauingenieur, Springer-Verlag. Berlin, Germany
- Brown Univ., Dept. Geol. Sci., Rept.: Brown University, Department of Geological Sciences, Report. Providence, Rhode Island
- Bull. Minéral.: Bulletin de Minéralogie, superseded by European Journal of Mineralogy, E. Schweizerbart'sche Verlagsbuchhandlung. Stuttgart, Germany
- Canadian Jour. Earth Sci.: Canadian Journal of Earth Sciences, National Research Council of Canada. Ottawa, Ontario, Canada
- Carbonates and Evaporites: Northeastern Science Foundation, Inc. Troy, New York
- Chemical Geology: Elsevier Scientific Publishing Company. Amsterdam, The Netherlands
- Chevron Focus: Chevron Corporation. San Francisco, California
- Civil Engineering: American Society of Civil Engineers. New York, New York
- Clay Minerals Soc., Ann. Mtg., Program and Abs.: Clay Minerals Society, Annual Meeting, Program and Abstracts. Boulder, Colorado
- Colorado School Mines, Quart.: Colorado School of Mines, Quarterly. Golden, Colorado
- Compte Rendu du Symposium Canadien sur la Teledetection: Canadian Symposium on Remote Sensing, June 22–25, 1987, Proceedings, Waterloo, Ontario, Canada
- Contr. Mineralogy and Petrology: Contributions to Mineralogy and Petrology, Springer-Verlag. New York, New York
- Cushman Foundation for Foraminiferal Research, Spec. Publ.: Cushman Foundation for Foraminiferal Research, Special Publication, Museum of Comparative Zoology, Harvard University. Cambridge, Massachusetts
- Dissert. Abs. Internat.: Dissertation Abstracts International, University Microfilms. Ann Arbor, Michigan
- Divining Rod: The Divining Rod, New Mexico Water Resources Research Institute, New Mexico State University. Las Cruces, New Mexico
- Econ. Geology: Economic Geology and the Bulletin of the Society of Economic Geologists, The Economic Geology Publishing Company, Yale University. New Haven, Connecticut
- El Paso Geol. Soc., Guidebook: El Paso Geological Society, Guidebook, University of Texas (El Paso). El Paso, Texas
- Energy Prog.: Energy Progress, American Institute of Chemical Engineers. New York, New York (publication suspended)
- Eng. and Mining Jour.: Engineering and Mining Journal, McGraw-Hill Publishing Company. New York, New York
- Environ. Geology and Water Sci.: Environmental Geology and Water Science, Springer-Verlag. New York, New York
- Environ. Res. Inst. Mich.: Environmental Research Institute of Michigan. Ann Arbor, Michigan.
- Episodes. International Union of Geological Sciences. Herndon, Virginia
- Fieldnotes: Arizona Bureau of Geology and Mineral Technology. Tucson, Arizona
- Four Corners Geol. Soc., Guidebook: Four Corners Geological Society, Guidebook. Durango, Colorado
- Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf.: Friends of the Pleistocene—Rocky Mountains Cell, Guidebook 1987 field conference
- Gas Research Inst., Coalbed Methane Symp., Proc.; Rept.: Gas Research Institute, Coalbed Methane Symposium, Proceedings; Report. Chicago, Illinois
- Geochemical Jour.: Geochemical Journal, Geochemical Society of Japan, Business Center for Academic Societies Japan. Tokyo, Japan
- Geochim. et Cosmochim. Acta: Geochimica et Cosmochimica Acta, Journal of the Geochemical Society and the Meteoritical Society, Pergamon Press. Oxford, England
- Geokhimiya: Akademiya Nauk SSSR. Moscow, Russian Federation
- Geologica Balcanica. Sofia, Bulgaria

- Geol. Assoc. Canada, Mineral. Assoc. Canada, Canadian Geophys. Union, Joint Ann. Mtg., Program with Abs.: Geological Association of Canada, Mineralogical Association of Canada, Canadian Geophysical Union, Joint Annual Meeting, Program with Abstracts, University of Newfoundland. St. John's, Newfoundland, Canada
- Geol. Soc. America, Abs. with Programs; Bull.; Centennial Field Guide; Centennial Special Volume; The Geology of North America; Spec. Paper: Geological Society of America, Abstracts with Programs; Bulletin; Centennial Field Guide; Centennial Special Volume; The Geology of North America; Special Paper. Boulder, Colorado
- Geol. Soc. London, Spec. Publ.: Geological Society of London, Special Publication. London, England
- Geol. Soc. Mexico, Chihuahua Sec., Field Conf. Guidebook: Geological Society of Mexico, Chihuahua Section, Field Conference Guidebook
- Geol. Soc. Nevada, Symp., Abs. with Program: Geological Society of Nevada, Symposium, Abstracts with Program. Elko, Nevada
- Geology: Geological Society of America. Boulder, Colorado
- Geophys. Research Letters: Geophysical Research Letters, American Geophysical Union. Washington, D.C.
- Geothermal Resources Coun., Trans.: Geothermal Resources Council, Transactions. Davis, California
- Geothermics: International Journal of Geothermal Research, Pergamon Press. Oxford, England
- Geotimes: American Geological Institute. Alexandria, Virginia
- Government Reports Announcements and Index: U.S. Department of Commerce, National Technical Information Service. Springfield, Virginia
- Great Basin Naturalist: The Great Basin Naturalist, Brigham Young University, Department of Zoology and Entomology. Provo, Utah
- Ground Water: Journal of Ground Water Technology, Division of the National Water Well Association. Dublin, Ohio
- Gulf Coast Assoc. Geol. Soc., Trans.: Gulf Coast Association of Geological Societies, Transactions. Austin, Texas
- Houston Geol. Soc., Bull.: Houston Geological Society, Bulletin. Houston, Texas
- Hunteria: Societas Palaeontographica Coloradensis. Boulder, Colorado
- Hydrological Processes: John Wiley & Sons Ltd. Chichester, West Sussex, England
- Illinois State Museum, Illinois State Museum Scientific Papers. Springfield, Illinois
- Inst. British Geographers, Spec. Publ.: Institute of British Geographers, Special Publication. London, England
- Internat. Assoc. Hydrogeologists, Publ.: International Association of Hydrogeologists, Publication. Reston, Virginia
- Internat. Congr. on Carboniferous Stratigraphy and Geology: International Congress on Carboniferous Stratigraphy and Geology
- Internat. Comm. Nat. Zeolites: International Committee on Natural Zeolites. Brockport, New York.
- Internat. Groundwater Conf., Proc.: International Groundwater Conference (June 22-26, 1987), Proceedings, Kuala Lumpur, Malaysia
- Internat. Jour. Coal Geology: International Journal of Coal Geology, Elsevier Scientific Publishing Company. Amsterdam, The Netherlands
- Internat. Soc. for Rock Mechanics, 6th Congress, Proc.: International Society for Rock Mechanics, 6th Congress (August 30-September 3, 1987), Proceedings, Montreal, Quebec, Canada
- Internat. Union for Quaternary Research, 12th Internat. Congress, Program and Abs.: International Union for Quaternary Research, 12th International Congress (July 31-August 9, 1987), Program and Abstracts, Ottawa, Ontario, Canada
- Internat. Union of Geodesy and Geophysics, General Assembly XIX: International Union of Geodesy and Geophysics, General Assembly XIX (August 9-22, 1987), Vancouver, British Columbia, Canada
- Interstate Oil & Gas Compact & Comm., Bull.: The Interstate Oil & Gas Compact & Committee, Bulletin. Oklahoma City, Oklahoma
- Iowa Academy Sci., Proc.: Proceedings of the Iowa Academy of Sciences, University of Northern Iowa. Cedar Falls, Iowa
- Isochron/West: The Bulletin of Isotopic Geochronology, Nevada Bureau of Mines and Geology and New Mexico Bureau of Mines and Mineral Resources. Socorro, New Mexico
- Jour. Arid Environments: Journal of Arid Environments, Academic Press Ltd. London, England
- Jour. Field Archaeology: Journal of Field Archaeology, Boston University. Boston, Massachusetts
- Jour. Geography: Journal of Geography, National Council for Geographic Education, Indiana University of Pennsylvania. Indiana, Pennsylvania
- Jour. Geol. Education: Journal of Geological Education, National Association of Geology Teachers. Bellingham, Washington
- 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. Human Evolution: Journal of Human Evolution, Academic Press Ltd. London, England
- Jour. Hydrology: Journal of Hydrology, Elsevier Scientific Publishing Company. Amsterdam, The Netherlands
- Jour. of Irrigation and Drainage Engineering: Journal of Irrigation and Drainage Engineering, American Society of Civil Engineers. New York, New York
- Jour. Mammalogy: Journal of Mammalogy, American Society of Mammalogists. Lawrence, Kansas
- Jour. Paleontology: Journal of Paleontology, SEPM (Society for Sedimentary Geology) and The Paleontological Society. Tulsa, Oklahoma
- Jour. Petroleum Tech.: Journal of Petroleum Technology, Society of Petroleum Engineers of the American Institute of Mining, Metallurgical, and Petroleum Engineers. Richardson, Texas
- Jour. Petrology: Journal of Petrology, Oxford University Press. Oxford, England
- Jour. Sed. Petrology: Journal of Sedimentary Petrology, SEPM (Society for Sedimentary Geology). Tulsa, Oklahoma
- Jour. Soil and Water Conservation: Journal of Soil and Water Conservation, Soil Conservation Society of America. Ankeny, Iowa

- Jour. Vertebrate Paleontology: Journal of Vertebrate Paleontology, Society of Vertebrate Paleontology, University of Nebraska. Lincoln, Nebraska
- Jour. Volcanology and Geothermal Research: Journal of Volcanology and Geothermal Research, Elsevier Scientific Publishing Company. Amsterdam, The Netherlands
- Jour. Water Resources Planning and Management: Journal of Water Resources Planning and Management, American Society of Civil Engineers. New York, New York
- Kansas Geol. Survey, Guidebook: Kansas Geological Survey, Guidebook. Lawrence, Kansas
- Lawrence Livermore Natl. Lab., Rept.: Lawrence Livermore National Laboratory, Report. Berkeley, California
- Los Alamos Natl. Lab., Rept.: Los Alamos National Laboratory, Report. Los Alamos, New Mexico
- Mammoth Trumpet: Center for the Study of the First Americans, Department of Anthropology, Oregon State University. Corvallis, Oregon
- Materials Research Soc., Symp. Proc.: Materials Research Society, Symposia Proceedings, Elsevier Scientific Publishing Company. New York, New York
- Meteoritics: Journal of the Meteoritical Society, Department of Astronomy, University of Southern California. Los Angeles, California
- Mineraux et Fossiles—le Guide du Collectionneur: Editions Cedim. Paris, France
- Mining Engineering: Society of Mining Engineers of the American Institute of Mining, Metallurgical, and Petroleum Engineers. Littleton, Colorado
- Natl. Aeronautics and Space Admin., Rept.; Tech. Memorandum; Tech. Paper: National Aeronautics and Space Administration, Report; Technical Memorandum; Technical Paper
- Natl. Geog. Research: National Geographic Research, National Geographic Society. Washington, D.C.
- Natl. Tech. Inf. Serv., Rept.: National Technical Information Service, Report, U.S. Department of Commerce. Springfield, Virginia
- Natl. Speleological Soc., Bull.: National Speleological Society, Bulletin. Huntsville, Alabama
- Natl. Water Well Assoc., Conf., Proc.: National Water Well Association, Conference, Proceedings. Dublin, Ohio
- NATO Advanced Study Inst. Ser. C., Mathematical and Physical Sci.: North Atlantic Treaty Organization Advanced Study Institute Series C., Mathematical and Physical Sciences
- Natural History Museum of Los Angeles County, Contr. Sci.: Natural History Museum of Los Angeles County, Contributions to Science. Los Angeles, California
- Nature: Macmillan Ltd. London, England
- New Mexico Bureau Mines Mineral Resources, Bull.; Circ.; Geol. Map; Mem.; Open-file Rept.: New Mexico Bureau of Mines and Mineral Resources, Bulletin; Circular; Geologic Map; Memoir; Open-file Report. Socorro, New Mexico
- New Mexico Energy and Minerals Dept., Bureau of Geology, Rept. Inv.: New Mexico Energy and Minerals Department, Bureau of Geology, Report of Investigation. Santa Fe, New Mexico
- New Mexico Geol. Soc., Guidebook; 1987 Spring Mtg., Abs. with Programs: New Mexico Geological Society, Guidebook; 1987 Spring Meeting, Abstracts with Programs, New Mexico Bureau of Mines and Mineral Resources. Socorro, New Mexico
- New Mexico Geology: New Mexico Bureau of Mines and Mineral Resources. Socorro, New Mexico
- New Mexico Health and Environ. Dept., Environ. Improvement Div., Environ. Evaluation Group, Rept.; Ground Water/Hazardous Waste Bureau, Rept.: New Mexico Health and Environment Department, Environmental Improvement Division, Environmental Evaluation Group, Report; Ground Water/Hazardous Waste Bureau, Report. Santa Fe, New Mexico
- New Mexico Inst. Mining and Tech., New Mexico Mineral Symp.: New Mexico Institute of Mining and Technology, New Mexico Mineral Symposium. 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 Mag.: New Mexico Magazine, State of New Mexico. Santa Fe, New Mexico
- New Mexico Petroleum Recovery Research Center, Rept.: New Mexico Petroleum Recovery Research Center, Report, New Mexico Institute of Mining and Technology. Socorro, New Mexico
- New Mexico Research and Develop. Inst., Rept.: New Mexico Research and Development Institute, Report. Santa Fe, New Mexico
- New Mexico State Engineer, Map; Rept.: New Mexico State Engineer, Map; Report. Santa Fe, New Mexico
- New Mexico State Univ., Agric. Exp. Station, Research Rept.; Water Resources Research Inst., Rept.: New Mexico State University, Agricultural Experiment Station, Research Report; Water Resources Research Institute, Report. Las Cruces, New Mexico
- Univ. New Mexico, Natural Resources Center: University of New Mexico, Natural Resources Center. Albuquerque, New Mexico
- Nuclear and Chemical Waste Management: superseded by Waste Management, Pergamon Press. Oxford, England
- Oil and Gas Jour.: Oil and Gas Journal, PennWell Publishing Company. Tulsa, Oklahoma
- Pacific Northwest Lab., Rept.: Battelle Pacific Northwest Laboratories, Report. Richland, Washington
- Palaeogeography, Palaeoclimatology, Palaeoecology: Elsevier Scientific Publishing Company. Amsterdam, The Netherlands
- Paläontologische Zeitschrift: E. Schweizerbart'sche Verlagsbuchhandlung. Stuttgart, Germany
- Paleobiology. Lawrence, Kansas
- Physics Earth and Planet. Interiors: Physics of the Earth and Planetary Interiors, North Holland Publishing Company. Amsterdam, The Netherlands
- Phytologia. Huntsville, Texas
- Pollution Abs.: Pollution Abstracts, Cambridge Scientific Abstracts. Bethesda, Maryland
- Postilla: Peabody Museum of Natural History, Yale University. New Haven, Connecticut
- Quart. Review of Methane from Coal Seams Tech.: Quarterly Review of Methane from Coal Seams Technology, Gas Research Institute. Chicago, Illinois
- Quaternary Research: Academic Press. New York, New York

- Remote Sensing of Environment: Elsevier Scientific Publishing Company. New York, New York
- Rocky Mountain Caving: Colorado Grotto, National Speleological Society. Denver, Colorado
- Sandia Natl. Lab., Rept.: Sandia National Laboratories, Report. Albuquerque, New Mexico
- Science: Journal of the American Association for the Advancement of Science. Washington, D.C.
- Sed. Geology: Sedimentary Geology, Elsevier Scientific Publishing Company. Amsterdam, The Netherlands
- Sedimentology: Journal of the International Association of Sedimentologists, Blackwell Scientific Publications. Oxford, England
- Seismol. Research Letters: Seismological Research Letters, Eastern Section of the Seismological Society of America. El Cerrito, California (formerly Earthquake Notes)
- Seismol. Soc. America, Bull.: Seismological Society of America, Bulletin. El Cerrito, California
- Sel. Water Resources Abs.: Selected Water Resources Abstracts, U.S. Department of the Interior. Washington, D.C.
- Soc. Econ. Paleontologists and Mineralogists, Midyear Mtg., Abs. with Programs; Permian Basin Sec., Publ.; Spec. Publ.: Society of Economic Paleontologists and Mineralogists, Midyear Meeting (August 20-30, 1987, Austin, Texas), Abstracts with Programs; Permian Basin Section, Publication; Special Publication, SEPM (Society for Sedimentary Geology). Midland, Texas, and Tulsa, Oklahoma
- Soc. Exploration Geophys.: Society of Exploration Geophysicists. Tulsa, Oklahoma
- Soc. Mining Engineers (AIME), Trans.: Society of Mining Engineers (AIME), Transactions, Society of Mining Engineers of the American Institute of Mining, Metallurgical, and Petroleum Engineers. Littleton, Colorado
- Soc. Petroleum Engineers, preprint: Society of Petroleum Engineers, preprint, Society of Petroleum Engineers of the American Institute of Mining, Metallurgical, and Petroleum Engineers. Richardson, Texas
- Soil Sci. Soc. America, Jour.: Soil Science Society of America, Journal. Madison, Wisconsin
- Univ. Southern California, Dept. Geol. Sciences, Rept.: University of Southern California, Department of Geological Sciences, Report. Los Angeles, California
- Southwest Oil World: Hart Publications. Denver, Colorado (formerly Drill Bit)
- Southwestern Naturalist: The Southwestern Naturalist, Texas A&M University, Department of Wildlife. College Station, Texas
- SPE Formation Evaluation: Society of Petroleum Engineers of the American Institute of Mining, Metallurgical, and Petroleum Engineers. Richardson, Texas
- SPE Reservoir Engineering: Society of Petroleum Engineers of the American Institute of Mining, Metallurgical, and Petroleum Engineers. Richardson, Texas
- Tectonics: American Geophysical Union. Washington, D.C.
- Tectonophysics: Elsevier Scientific Publishing Company. Amsterdam, The Netherlands
- Terra Cognita: superseded by Terra Abstracts, European Union of Geosciences, Blackwell Scientific Publications. Oxford, England
- Univ. Texas (Austin), Bureau Econ. Geology, Open-file Rept.; Rept. Inv.: University of Texas (Austin), Bureau of Economic Geology, Open-file Report; Report of Investigation. Austin, Texas
- The Workbook: Southwest Research and Information Center. Albuquerque, New Mexico
- U.S. Bureau Land Management, rept.; Rept.: U.S. Bureau of Land Management, report; Report. Washington, D.C.
- U.S. Bureau Mines, Helium Field Operations, Rept.; Open-file Rept.; Rept. Inv.: U.S. Bureau of Mines, Helium Field Operations, Report; Open-file Report; Report of Investigation. Washington, D.C.
- U.S. Bureau Reclamation, rept.: U.S. Bureau of Reclamation, report. Washington, D.C.
- U.S. Dept. Agriculture, Forest Serv., General Tech. Rept.; Soil Conserv. Serv., rept.: U.S. Department of Agriculture, Forest Service, General Technical Report; Soil Conservation Service, report. Washington, D.C.
- U.S. Dept. Energy, Proc.; Rept.: U.S. Department of Energy, Proceedings; Report. Washington, D.C.
- U.S. Dept. Labor, Coalbed Methane Symp., Proc.: U.S. Department of Labor, Coalbed Methane Symposium, Proceedings. Washington, D.C.
- U.S. Environ. Protection Agency, Symp., Proc.: U.S. Environmental Protection Agency, Symposium (May 4-6, 1987), Proceedings, New Orleans, Louisiana
- U.S. Geol. Survey, Bull.; Circ.; Geol. Quad. Map; Hydrol. Inv. Atlas; Misc. Field Studies Map; Misc. Inv. Ser., Map; New Mexico District, rept.; Open-file Rept.; Prof. Paper; Water-data Rept.; Water-resources Inv., Rept.; Water-supply Paper: U.S. Geological Survey, Bulletin; Circular; Geologic Quadrangle Map; Hydrologic Investigations Atlas; Miscellaneous Field Studies Map; Miscellaneous Investigations Series, Map; New Mexico District, report; Open-file Report; Professional Paper; Water-data Report; Water-resources Investigations, Report; Water-supply Paper. Reston, Virginia
- Utah Univ. Research Inst., Earth Science Lab., Rept.: Utah University Research Institute, Earth Science Laboratory, Report. Salt Lake City, Utah
- Water Resources Research: American Geophysical Union. Washington, D.C.
- West Texas Geol. Soc., Bull.: West Texas Geological Society, Bulletin. Midland, Texas
- Western Oil World: Hart Publications. Denver, Colorado (formerly Western Oil Reporter)
- Wilderness: The Wilderness Society. Washington, D.C.

Acronyms

ACROFI	American Current Research on Fluid Inclusions
AE	acoustic energy
AFM	AlFeMg (ternary phase diagram)
AFY	annual fiscal year
AMS	accelerator mass spectrometry
BIEM	boundary integral-equation method
BLM	Bureau of Land Management
CDP	common depth point
COCORP	Consortium for Continental Reflection Profiling
CSDP	Continental Scientific Drilling Program
DC	direct current
DHLW	defense high level waste
DOE	Department of Energy
FFT	fast Fourier transform
FOP	Friends of the Pleistocene
GIS	Geographic Information System
GYPKAP	Gypsum Karst Project
HDR	hot dry rock
K-T	Cretaceous-Tertiary
LRG	lower Rio Grande
MHF	massive hydraulic fracturing
MIT	mechanical integrity testing
NASQAN	National Stream-Quality Accounting Network
NURE	National Uranium Resource Evaluation Program
RH-TRU	remote handled-transuranic
RISQ	rutile, ilmenite (hematite), aluminum silicate, quartz
SPOT	System Probatoire l'Observation de la Terre
SRL	Savannah River Laboratory
SURF	spent unreprocessed fuel
TDEM	time domain electromagnetic
USAF	United States Air Force
USGS	United States Geological Survey
VSP	vertical seismic profile
WIPP	Waste Isolation Pilot Plant

Bibliography

- Abeelee, Willy V.**
1987 (and Nyhan, John W.) Emanation and dispersal of tritiated water from disposal shafts: Nuclear and Chemical Waste Management, v. 7, nos. 3-4, p. 217-226
- Abeyta, Cynthia G.**
see Goetz and Abeyta, 1987; and Goetz, Abeyta, and Thomas, 1987
- Abitz, Richard J.**
1987 (and Brookins, Douglas G.) Evolution of Oligocene volcanism adjacent to the southern Rio Grande rift (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 44, p. 1532
1987 (and Matheney, Ronald K.) Sr and O isotope disequilibrium in a welded high-silica rhyolite tuff (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 566
1987 (Ward, David B., and Brookins, Douglas G.) Rb-Sr age for lower crust in the southern Rio Grande rift, New Mexico: Isochron/West, no. 49, p. 8-12, 2 tables, 2 figs.
see Elston and Abitz, 1987; Elston, Seager, and Abitz, 1987; and Reisinger, Wagener, and Abitz, 1987
- Agapito, J. F. T.**
1987 (and Shoemaker, D. R.) Ground stability and support in block caving operations at Molycorp's Questa mine, in Rock mechanics—proceedings of the 28th U.S. symposium, I. W. Farmer and others, editors: Rotterdam, Balkema, p. 1161-1174
- Agenbroad, Larry D.**
1987 (and Mead, Jim I.) Late Pleistocene alluvium and megafauna dung deposits of the central Colorado Plateau, in Geologic diversity of Arizona and its margins—excursions to choice areas, G. H. Davis and E. M. VandenDolder, editors: Arizona Bureau Geology Mineral Tech., Spec. Paper 5, p. 68-84, 5 tables, 19 figs.
- Aguilar, Ronald G.**
see Robinson, B. A., Aguilar, Kanaori, Trujillo, Counce, Birdsell, and Matsunaga, 1987
- Ake, Jon P.**
1987 (and Sanford, Allan R.) Internal structure of the Socorro magma body deduced from microearthquake P-phase reflections (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 39; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 44
see Carpenter, Sanford, and Ake, 1987; and Sanford, Ake, Jarpe, and Jaksha, 1987
- Aki, Keiiti**
1987 CSDP—the seismology of continental thermal regimes—final report for period April 1, 1986–April 1, 1987: Univ. Southern California, Dept. Geol. Sciences, Rept. DOE/ER/13336-2, 56 p.; Natl. Tech. Inf. Serv., Rept. DE87 014 100
see Roberts, Aki, and Fehler, 1987
- Albright, J. C.**
see Pittaway, Albright, Hoover, and Moore, 1987
- Al-Dabbagh, Ahmed Assim**
1987 Variations and boundary location of static and dynamic soil properties along a desert catena in southern New Mexico: Ph.D. dissertation, New Mexico State Univ., 244 p.; *abs. in* Dissert. Abs. Internat., v. 48, no. 6, p. 1553-B
- Aldrich, Merritt J., Jr.**
1987 (Chapin, Charles E., Laughlin, A. William, and Zoback, Mary Lou) Colorado Plateau Oligocene to Quaternary stress history (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 569
- Aldridge, Byron N.**
see Wahl, Collins, and Aldridge, 1987
- Aleinikoff, John N.**
1987 (Reed, John C., Jr., and Pallister, John S.) Tectonic interpretations of the Colorado Proterozoic province based on common Pb data from feldspars in 1400-Ma and 1700-Ma plutons (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 257
see Reed, Bickford, Premo, Aleinikoff, and Pallister, 1987; and Wooden and Aleinikoff, 1987
- Alford, Dean E.**
1987a Geochemistry of the Hembrillo Canyon succession, Sierra and Doña Ana Counties, New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 25; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 42
1987b Geology and geochemistry of the Hembrillo Canyon succession, San Andres Mountains, Sierra and Doña Ana Counties, NM: M.S. thesis, New Mexico Inst. Mining and Tech., 180 p.
- Allen, Bruce D.**
see Lucas, Allen, and Hayden, 1987
- Alley, William M.**
1987 (and Schefter, John E.) External effects of irrigators' pumping decisions, High Plains aquifer: Water Resources Research, v. 23, no. 7, p. 1123-1130, 7 figs.
- Almquist, Carl L.**
see Leibold, Saltus, Grauch, Lindsey, and Almquist, 1987
- Aluka, I. J.**
1987a Discriminant analysis of components of El Paso Group rocks in southern Hueco Mountains, Hudspeth County, Texas—approach to depositional environments (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 8, p. 999
1987b Microfacies analysis and depositional environments of middle unit of El Paso Group, southern Hueco Mountains, Hudspeth County, Texas (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 8, p. 999-1000
- Anderholm, Scott K.**
1987a Hydrogeology of the Socorro-La Jencia Basins, Socorro County, New Mexico: U.S. Geol. Survey, Water-resources Inv., Rept. 84-4342, 62 p.
1987b Reconnaissance of hydrology, land use, groundwater chemistry, and effects of land use on groundwater chemistry in the Albuquerque-Belen Basin, New Mexico: U.S. Geol. Survey, Water-resources Inv., Rept. 86-4174, 37 p., 3 sheets
1987 (and Bullard, Thomas F.) Description of piezometer nests and water levels in the Rio Grande valley near Albuquerque, Bernalillo County, New Mexico: U.S. Geol. Survey, Open-file Rept. 87-122, 51 p., 8 tables, 28 figs.
- Andersen, Henrik T.**
1987 Analytic continuation in the interpretation of transient electromagnetic data: Ph.D. dissertation, Colorado School Mines, 164 p.
- Anderson, Orin J.**
1987a Geology and coal resources of Atarque Lake 1:50,000 quadrangle, New Mexico: New Mexico Bureau Mines Mineral Resources, Geol. Map 61, 2 sheets, scale 1:50,000
1987b Second day road log from Window Rock, Arizona, at intersection of Navajo Highway 12 and 264, to Lupton, Arizona, via Navajo Highway 12, in Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico,

G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 17–18, 2 figs.

1987 (Chamberlin, Richard M., and Roybal, Gretchen H.) Road log from Fence Lake, New Mexico, to Springerville, Arizona, in Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 26–30, 1 fig.

1987a (and Hafenfeld, Stan R.) Road log from Lupton, Arizona, to Gallup, New Mexico, in Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 18–22, 1 fig.

1987b (and Hafenfeld, Stan R.) Third day road log from Gallup, New Mexico, to Show Low, Arizona; road log from Gallup to Fence Lake, New Mexico, in Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 23–26, 1 fig.

1987 (and Stricker, Gary D.) Stratigraphy and coal occurrences of the Tres Hermanos Formation and Gallup Sandstone (Upper Cretaceous), Zuni Basin, west-central New Mexico, in Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 59–63, 4 figs.

1987a (and Wolberg, Donald L.) Economics of coal production cyclicity—with special reference to New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 8, p. 1000; New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 41; New Mexico Geology, 1988, v. 10, no. 2, p. 44

1987b (and Wolberg, Donald L.) The economics of coal production cycles in New Mexico: New Mexico Geology, v. 9, no. 3, p. 45–49, 3 tables, 4 figs.

see Roybal, Anderson, and Beaumont, 1987

Anderson, Roger Y.

1987 Thresholds and triggering of sediment transport into lakes—evidence from sediment traps and varves (abs.): Internat. Union for Quaternary Research, 12th Internat. Congress, July 31–August 9, 1987, Ottawa, Ontario, Canada, Program and Abs., p. 121

1987 (and Kirkland, Douglas W.) Banded Castile evaporites, Delaware Basin, New Mexico, in Rocky Mountain Section of the Geological Society of America, S. S. Beus, editor: Geol. Soc. America, Centennial Field Guide, v. 2, p. 455–458, 10 figs.

Anonymous

1987a Flood dedicated in New Mexico: Oil and Gas Jour., v. 85, no. 18, p. 23

1987b Hard times mean hard choices in New Mexico: Western Oil World, v. 44, no. 3, p. 9

1987c Mountain lakes susceptible to acid rain: Divining Rod, v. 10, no. 3, p. 2

1987d Shorelines give clues to desert lakes: Divining Rod, v. 10, no. 3, p. 1

Apodaca, Lori E.

1987 Geochemical study of the Cochiti mining district, Sandoval County, NM: M.S. thesis, New Mexico Inst. Mining and Tech., 99 p.

Archer, Allen W.

see Laferriere, Hattin, and Archer, 1987

Archibald, J. D.

1987 (Gingerich, P. O., Lindsay, E. H., Clemens, W. A., Krause, D. W., and Rose, K. D.) First North American land mammal ages of the Cenozoic Era, in Cenozoic mammals of North America—geochronology and biostratigraphy, M. O. Woodburne, editor: Berkeley, Univ. California Press, p. 24–76

Archuleta, Ralph J.

1987 (and Goldstein, Peter) Imaging a magma chamber using a vertical seismic array (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 44, p. 1347

Ardito, Cynthia P.

1987 The relationship between mineralogy, groundwater chemistry and groundwater flow in the Moreno Hill Formation: M.S. thesis, New Mexico Inst. Mining and Tech., 183 p.

Argüello, José G.

1987 (and Beraun, Ricardo) Numerical simulation of drift response in rock salt resulting from the emplacement of RH-TRU waste in an array of horizontal long boreholes in a separate panel at the WIPP, in Rock mechanics—proceedings of the 28th U.S. symposium, I. W. Farmer and others, editors: Rotterdam, Balkema, p. 643–652

1987 (and Munson, Darrell E.) Preliminary results of the three-dimensional modeling of the WIPP (Waste Isolation Pilot Plant) excavation sequence: Sandia Natl. Lab., Rept. SAND86-2380-C, 10 p.; Natl. Tech. Inf. Serv., Rept. DE87 007 027

1987 (Munson, Darrell E., and Preece, Dale S.) Preliminary results of the three-dimensional modeling of the WIPP Room D excavation sequence, in Rock mechanics—proceedings of the 28th U.S. symposium, I. W. Farmer and others, editors: Rotterdam, Balkema, p. 863–872

1987 (and Torres, Teresa M.) WIPP panel entryway seal—numerical simulation of seal component/formation interaction for preliminary design evaluation: Sandia Natl. Lab., Rept. SAND87-2591, 33 p.

Arkell, Brian

see Cook and Arkell, 1987

Armin, Richard A.

1987 Sedimentology and tectonic significance of Wolfcampian (Lower Permian) conglomerates in the Pedregosa Basin—southeastern Arizona, southwestern New Mexico, and northern Mexico: Geol. Soc. America, Bull., v. 99, no. 1, p. 42–65, 4 tables, 2 figs.

Armitage, H. H.

see Rowe and Armitage, 1987

Armstrong, Augustus K.

1987 (and Mamet, Bernard L.) Stratigraphy, facies, and paleotectonics, Mississippian System, New Mexico, in Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 87–95, 5 figs.

Armstrong, Dale G.

see Loring, Clemons, and Armstrong, 1987

Arnold, J. R.

1987 (and Pennstrom, W. J.) Gold electrowinning/rectifier circuits at Gold Fields' Ortiz and Mesquite operations: Soc. Mining Engineers (AIME), Trans., v. 282, p. 65–67, 3 tables

Aronson, E. A.

see Yost and Aronson, 1987

Arrant, B. G.

see Mazzullo, L. J., and Arrant, 1987

Ash, Sidney R.

1987 The Upper Triassic red bed flora of the Colorado Plateau, western United States: Arizona-Nevada Acad. Sci., Jour., v. 22, no. 1, p. 95–105, 5 figs.

- 1987 (and Tidwell, William D.) *Arnophyton*, a new name for *Arnoldia* Ash and Tidwell, 1986: *Phytologia*, v. 63, no. 1, unpaginated
- Asher-Bolinder, Sigrid**
1987 (and Whitney, C. Gene) Mechanism of lithium enrichment in the Popotosa Formation, Socorro County, New Mexico (abs.), in USGS research on mineral resources, 1987—program and abstracts, J. S. Sachs, editor: U.S. Geol. Survey, Circ. 995, p. 2–4; U.S. Geol. Survey, Open-file Rept. 87–608, p. 8–9
- Attebery, Liz**
1987 Riding roller coaster economy a way of life in San Juan Basin: *New Mexico Mag.*, v. 65, no. 3, p. 24–27, 4 figs.
- Aubele, Jayne C.**
1987 (Crumpler, L. S., and Condit, Christopher D.) Tectonic deformation of the late Cenozoic Springerville volcanic field, southern margin of the Colorado Plateau, Arizona (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 576
see Condit, Aubele, and Crumpler, 1987
- Aubrey, William M.**
1987 Eustasy, alluvial plain incision and the mid-Cretaceous sub-Dakota unconformity, southeastern Colorado Plateau (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 576
- Aydin, Atilla**
see DeGraff and Aydin, 1987
- Baars, Donald L.**
see Stevenson and Baars, 1987
- Bachhuber, Frederick W.**
1987 An early to mid-Wisconsin climatic record from the Estancia Valley, central New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 577
see Goebel and Bachhuber, 1987
- Bachman, George O.**
1987a Evaporite karst in the Pecos drainage, southeastern New Mexico, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 118–123, 2 figs.
1987b Karst in evaporites in southeastern New Mexico: Sandia Natl. Lab., Rept. SAND86–7078, 82 p., 1 table, 31 figs.; Natl. Tech. Inf. Serv., Rept. DE88 001 315
1987c Stratigraphy and dissolution of the Rustler Formation, in *The Rustler Formation at the WIPP site—report of a workshop on the geology and hydrology of the Rustler Formation as it relates to the WIPP project*, L. Chaturvedi, editor: New Mexico Health and Environ. Dept., Environ. Improvement Div., Environ. Evaluation Group., Rept. EEG–34, p. 16–25, 2 figs.
- Bair, E. Scott**
1987a Analysis of hydraulic gradients across the host rock at the proposed Texas panhandle nuclear-waste repository site: *Ground Water*, v. 25, no. 4, p. 441–447, 2 tables, 5 figs.
1987b Regional hydrodynamics of the proposed high-level nuclear-waste repository sites in the Texas panhandle: *Jour. Hydrology*, v. 92, nos. 1/2, p. 149–172, 12 figs.
- Baker, L.**
see Kuellmer, Kendrick, and Baker, 1987a,b
- Baldrige, W. Scott**
1987 (Perry, Frank V., and Shafiqullah, Muhammad) Late Cenozoic volcanism of the southeastern Colorado Plateau—I, volcanic geology of the Lucero area, New Mexico: *Geol. Soc. America, Bull.*, v. 99, no. 4, p. 463–470, 1 table, 6 figs.
1987 (Vaniman, David T., and Shafiqullah, Muhammad) Late Miocene to Pliocene development of the northern Jemez volcanic field, New Mexico (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1352
see Duncker, Wolff, Harmon, Leat, Thompson, and Baldrige, 1987; Ingersoll, Cavazza, Baldrige, and Shafiqullah, 1987; Olsen, Baldrige, and Callender, 1987; and Perry, Baldrige, and DePaolo, 1987a,b
- Ball, John R.**
see Munson, Jones, Hoag, and Ball, 1987
- Balling, Robert C., Jr.**
1987 (and Wells, Stephen G.) Historic rainfall patterns and arroyo activity within the Zuni River drainage basin, New Mexico (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1269
- Bally, Albert W.**
1987 Phanerozoic basin evolution in North America: *Episodes*, v. 10, no. 4, p. 248–252, 5 figs.
- Balsley, Steven D.**
1987 (Wolff, John A., Kuentz, David C., Kyle, Philip R., and Gardner, Jamie N.) The inter-relationship of the upper and lower Bandelier Tuffs—evidence from incompatible trace elements (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1512
see Wolff, Balsley, Kuentz, Self, and Kyle, 1987
- Bame, M. A.**
see Stensrud, Bame, Lantz, LaVenue, Palmer, and Saulnier, 1987
- Bancroft, G. M.**
see Muir, Bancroft, MacRae, and Metson, 1987
- Banz, I.**
1987 (Bradshaw, P., Cockman, J. S., Fisher, N. T., Prince, J. K., Rodriguez, A. L., and Uhland, D.) Annual site environmental monitoring report for the Waste Isolation Pilot Plant CY 1986: U.S. Dept. Energy, Rept. DOE-WIPP–87–002
- Barazangi, Muwawia**
see Beghoul and Barazangi, 1987
- Barclay, C. S. Venable**
see Sheppard, Eyde, and Barclay, 1987
- Barker, Charles E.**
1987 (and Pawlewicz, Mark J.) The effects of igneous intrusions and higher heat flow on the thermal maturity of Leonardian and younger rocks, western Delaware Basin, Texas, in *The Leonardian facies in west Texas and SE New Mexico and guidebook to the Glass Mountains, west Texas*, D. Cromwell and L. J. Mazzullo, editors: *Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec.*, Publ. 87–27, p. 69–84, 2 tables
- Barker, Colin**
see Sullivan, G. E., and Barker, 1987a,b
- Barker, Daniel S.**
see Price, Henry, Barker, and Parker, 1987
- Barker, James M.**
1987 (Hingtgen, John S., and Bowie, Mark R.) Perlite expansion and testing at the New Mexico Bureau of Mines and Mineral Resources, Socorro, NM: *Eng. and Mining Jour.*, v. 39, no. 7, p. 877–882, 2 tables, 1 fig.; *Soc. Mining Engineers (AIME), Trans.*, v. 282, p. 877–882
see Bowie, Barker, and Peterson, 1987; and McLemore and Barker, 1987
- Barnes, Donald**
see Pavlovich and Barnes, 1987
- Barrie, Donald S.**
1987 Engineering geology of northern Estancia Valley, north-central New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 110 p.
see Johnpeer, Bobrow, Robinson–Cook, and Barrie, 1987a,b; and Johnpeer, Robinson–Cook, Bobrow, Barrie, Kelliher, and McNeil, 1987
- Barroll, Margaret W.**
see Reiter, Barroll, Minier, and Clarkson, 1987

Barton, Harlan N.

1987 (and Day, Gordon W.) Analytical results and sample locality map of heavy-mineral-concentrate samples from the Lower Gila Box Wilderness Study Area (NM-030-023), Grant and Hidalgo Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 87-294, 8 p., 2 tables, 2 figs.

Barton, Jane W.

see Saller, Barton, and Barton, 1987

Barton, Rickey E.

see Saller, Barton, and Barton, 1987

Bauer, Paul W.

1987a Porphyroblast microstructures as indicators of early strain events in metamorphic rocks—with examples from Precambrian rocks of the Picuris Range, northern New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 24; *abs. also in New Mexico Geology*, 1988, v. 10, no. 2, p. 42

1987b Precambrian geology of the Picuris Range, north-central New Mexico: Ph.D. dissertation, New Mexico Inst. Mining and Tech., 81 p.; New Mexico Bureau Mines Mineral Resources, Open-file Rept. 325, 280 p., 1 table, 61 figs., 2 appendices, 1 sheet, scale 1:12,000

1987c Structural and stratigraphic relationships between the Early Proterozoic Vadito and Ortega Groups, Picuris Range, northern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 259

Baugh, Timothy G.

1987 (and Nelson, Fred W., Jr.) New Mexico obsidian sources and exchange on the Southern Plains: *Jour. Field Archaeology*, v. 14, p. 313-329, 3 tables, 8 figs.

Baumgardner, Robert W., Jr.

1987 Morphometric studies of subhumid and semiarid drainage basins, Texas panhandle and northeastern New Mexico: Univ. Texas (Austin), Bureau Econ. Geology, Rept. Inv. 163, 68 p., 15 tables, 35 figs.

Bayhurst, G. K.

1987 (and Janecky, D. R.) Investigation of alteration mineralogy and geochemistry in CSDP hole VC-2a, Valles caldera, New Mexico (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 16, p. 469

Bayliss, G. S.

1987 Organic geochemical analyses of the Santa Fe Energy Operating Partners No. 1 Rohmer well, Eddy County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 262, 106 p., 11 tables, 3 figs., 1 appendix (revised 1988)

1987a (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Austra-Tex No. 1 Exxon Mineral well, sec. 23, T12N, R4W, Valencia County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 316, 15 p., 5 tables, 1 fig., 3 appendices

1987b (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Austra-Tex No. 1 Rio Puerco well, sec. 7, T12N, R2W, Sandoval County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 310, 19 p., 5 tables, 1 fig., 1 appendix

1987c (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Austra-Tex No. 1 Rio Puerco well, sec. 7, T12N, R2W, Sandoval County, New Mexico (resampling of Yeso Formation): New Mexico Bureau Mines Mineral Resources, Open-file Rept. 314, 13 p., 5 tables, 1 fig., 3 appendices

1987d (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Baker and Taylor Drilling Co. No. 1 T-4 Cattle Co. well, sec. 7, T11N, R27E, San Miguel County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 303, 13 p., 5 tables, 1 fig., 1 appendix

1987e (and Schwarzer, R. R.) Hydrocarbon source-rock

evaluation, Cambridge and Nail SFP No. 1 well, sec. 19, T4N, R9W, Catron County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 296, 15 p., 5 tables, 1 fig., 1 appendix

1987f (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Continental Oil Co. No. 1 Federal Land Bank 2 well, sec. 2, T24N, R36E, Union County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 289, 12 p., 5 tables, 1 fig., 1 appendix

1987g (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Continental Oil Co. No. 1 Mares-Duran well, sec. 14, T23N, R17E, Mora County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 284, 13 p., 5 tables, 1 fig., 1 appendix

1987h (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Continental Oil Co. No. 1 Maxwell Land Grant well, sec. 11, T28N, R22E, Colfax County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 285, 12 p., 5 tables, 1 fig., 1 appendix

1987i (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, EPNG Elliott State well, sec. 36, T19N, R2W, Sandoval County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 298, 14 p., 5 tables, 1 fig., 1 appendix

1987j (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Gulf Oil Co. No. 1 Gallo Canyon well, sec. 26, T23N, R6W, Sandoval County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 306, 14 p., 5 tables, 1 fig., 1 appendix

1987k (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, J. D. Hancock No. 1 Sedberry well, sec. 25, T17N, R16E, San Miguel County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 302, 13 p., 5 tables, 1 fig., 1 appendix

1987l (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Marshall Drilling Co. No. 1 Beal-Miller well, sec. 3, T15N, R19W, McKinley County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 297, 12 p., 5 tables, 1 fig., 1 appendix

1987m (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Miami Petroleum Co. No. 3 Hoover Ranch well, sec. 25, T13N, R26E, San Miguel County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 308, 12 p., 5 tables, 1 fig., 1 appendix

1987n (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Morris B. Jones No. 1 Blue Quail Energy Addison well, sec. 13, T2N, R7E, Torrance County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 309, 12 p., 5 tables, 1 fig., 1 appendix

1987o (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Odessa Natural Gas Corp. No. 3 W.S. Ranch well, sec. 24, T29N, R19E, Colfax County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 286, 12 p., 5 tables, 1 fig., 1 appendix

1987p (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Phillips Petroleum Co. No. 6 Leamex well, sec. 23, T17S, R33E, Lea County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 300, 23 p., 5 tables, 1 fig., 1 appendix

1987q (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Pure Oil Co. Red Hills No. 1 well, sec. 32, T25S, R33E, Lea County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 287, 20 p., 5 tables, 1 fig., 1 appendix

1987r (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Refiners Petroleum No. 1 White Ridge well, sec. 7, T6N, R3W, Valencia County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 295, 15 p., 5 tables, 1 fig., 1 appendix

1987s (and Schwarzer, R. R.) Hydrocarbon source-rock

- evaluation, Standard of Texas No. 10-1 Lillian Coll well, sec. 10, T16S, R31E, Eddy County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 311, 15 p., 5 tables, 1 fig., 1 appendix
- 1987t** (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Sun No. 1 Acoma Pueblo No. 1 well, sec. 2, T7N, R7W, Valencia County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 313, 15 p., 5 tables, 1 fig., 3 appendices
- 1987u** (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Sun Oil Co. No. 1 San Augustine well, sec. 29, T3S, R9W, Catron County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 288, 15 p., 5 tables, 1 fig., 1 appendix
- 1987v** (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Sunray Mid-Continent Oil Co. No. 1 R. Paddilla well, sec. 4, T8N, R19E, Guadalupe County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 304, 11 p., 5 tables, 1 fig., 1 appendix
- 1987w** (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Tenneco Oil Co. No. 1 Federal well, sec. 35, T1S, R13W, Catron County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 291, 14 p., 5 tables, 1 fig., 1 appendix
- 1987x** (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Texaco, Inc. No. 1 Cruz well, sec. 14, T29N, R36E, Union County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 294, 12 p., 5 tables, 1 fig., 1 appendix
- 1987y** (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Transocean Henderson No. 1 SFPRR well, sec. 35, T1N, R6W, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 293, 13 p., 5 tables, 1 fig., 1 appendix
- 1987z** (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Transocean Major No. 1 well, sec. 27, T4N, R6W, Socorro County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 290, 14 p., 5 tables, 1 fig., 1 appendix
- 1987aa** (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Transocean McKee No. 1 well, sec. 4, T13N, R9E, Santa Fe County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 315, 20 p., 5 tables, 1 fig., 3 appendices
- 1987bb** (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Transocean No. 1 State 2111 well, sec. 12, T2N, R18W, Catron County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 299, 14 p., 5 tables, 1 fig., 1 appendix
- 1987cc** (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Transocean No. 1 Turner well, sec. 32, T3N, R9W, Catron County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 292, 12 p., 5 tables, 1 fig., 1 appendix
- 1987dd** (and Schwarzer, R. R.) Hydrocarbon source-rock evaluation, Yates Petroleum La Mesa No. 2 well, sec. 24, T17N, R8E, Santa Fe County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 305, 13 p., 5 tables, 1 fig., 1 appendix
- 1987ee** (and Schwarzer, R. R.) Organic geochemical analyses of outcrop samples, Cambrian-Mississippian rocks, Mescal Canyon section, secs. 28, 29, T30S, R15W, Hidalgo County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 312, 25 p., 5 tables, 1 appendix
- Bazrafshan, Khosrow**
1987 (and Norman, David I.) Fluid inclusion study of Hermosa mining district (abs.): Am. Current Research on Fluid Inclusions (ACROFI) mtg., Socorro, New Mexico, January 5-7, 1987, Program and Abs., unpaginated
- Beal, Linda V.**
1987 (and Gold, Robert L.) Water resources data—New Mexico, water year 1986: U.S. Geol. Survey, Water-data Rept. NM-86-1, 454 p.; Natl. Tech. Inf. Serv., Rept. PB88 148 531; *abs. in* Government Reports Announcements and Index, 1988, v. 88, no. 8, p. 147
- Bean, Kevin**
see Shuey, Rich, and Bean, 1987
- Beard, K. C.**
1987 *Jemezius*, a new omomyid primate from the early Eocene of northwestern New Mexico: Jour. Human Evolution, v. 16, p. 457-468
- Beard, Robert D.**
1987a Geology and geochemistry of the central part of the Gold Hill mining district, Hidalgo and Grant Counties, New Mexico: M.S. thesis, Univ. New Mexico, 157 p.
1987b Gold-bearing quartz veins of the central part of the Gold Hill mining district, Hidalgo and Grant Counties, New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 44; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 45
- Beauheim, Richard L.**
1987a Analysis of pumping tests of the Culebra Dolomite conducted at the H-3 hydropad at the Waste Isolation Pilot Plant (WIPP) site: Sandia Natl. Lab., Rept. SAND86-2311, 154 p., 6 tables, 59 figs.; Natl. Tech. Inf. Serv., Rept. DE87 008 992
1987b Interpretation of the WIPP-13 multipad pumping test of the Culebra Dolomite at the Waste Isolation Pilot Plant (WIPP) site: Sandia Natl. Lab., Rept. SAND87-2456, 165 p., 3 tables, 74 figs., 3 appendices; Natl. Tech. Inf. Serv., Rept. DE88 013 155
1987c Interpretations of single-well hydraulic tests conducted at and near the Waste Isolation Pilot Plant (WIPP) site, 1983-1987: Sandia Natl. Lab., Rept. SAND87-0039, 168 p.; Natl. Tech. Inf. Serv., Rept. DE88 012 110
see Kelley, V. A., Pickens, Reeves, and Beauheim, 1987; and Mercer, Beauheim, Snyder, and Fairer, 1987
- Beaumont, Edward C.**
1987a First day road log from Albuquerque to Gallup, New Mexico, *in* Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 7-15, 2 figs.
1987b Geology and mining activity in the Lee Ranch area, McKinley County, New Mexico, *in* Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 37-40, 2 figs.
1987c Second day road log from Gallup, New Mexico, to Window Rock, Arizona, *in* Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 16
see Roybal, Anderson, and Beaumont, 1987; and Roybal, Campbell, Beaumont, Cohen, Kuellmer, Kottlowski, and Cook, 1987
- Becker, Mary J.**
see Sipiera, Becker, and Dod, 1987; and Sipiera, Becker, and Kawachi, 1987
- Becker, Naomi M.**
see Purtymun, Ferenbaugh, Becker, Williams, and Maes, 1987
- Bedinger, M. S.**
1987 (Langer, W. H., and Reed, J. E.) Synthesis of hy-

- draulic properties of rocks with reference to the Basin and Range province, southwestern United States, in Selected papers in the hydrologic sciences 1986, S. Subitzky, editor: U.S. Geol. Survey, Water-supply Paper W-2310, p. 35-43
- Beehner, Terri S.**
 1987a Earthquake-potential at White Sands Missile Range, New Mexico (abs.): Assoc. Eng. Geologists, 30th Ann. Mtg., Abs. with Programs, v. 30, p. 34
 1987b Quaternary deformation at White Sands Missile Range, New Mexico; "the White Sands Project" (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 584
- Beghoul, M. Noureddine**
 1987 (and Barazangi, Muwawia) A detailed mapping of uppermost mantle Pn velocities in western North America—results from the Colorado Plateau (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 16, p. 351
- Belkin, Harvey E.**
 1987 (and Libelo, Laurence E.) Fibers and cylinders of cryptomelane-hollandite in Permian bedded salt, Palo Duro Basin, Texas: Am. Mineralogist, v. 72, nos. 11-12, p. 1211-1224, 2 tables, 8 figs.
- Belle, Eddie R.**
 1987 A geochemical study of the organic matter within the Lower Cretaceous Mesilla Valley Shale, Cerro de Cristo Rey uplift, Doña Ana County, New Mexico: M.S. thesis, Univ. Texas (El Paso)
- Belski, Dave**
 1987 (editor) GYPKAP 1987 annual report: Natl. Speleological Soc., Southwestern Region
- Bennett, Victoria C.**
 1987 (and DePaolo, Donald J.) Proterozoic crustal history of the western United States as determined by neodymium isotopic mapping: Geol. Soc. America, Bull., v. 99, no. 5, p. 674-685, 1 table, 8 figs.
 1987 (DePaolo, Donald J., and Smith, Brian M.) Neodymium and oxygen isotopic evidence for the origin of Middle Proterozoic anorogenic granites of the western United States (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 586
- Beraun, Ricardo**
 1987 (and Molecke, M. A.) Thermal analysis of the WIPP in situ Room A1 DHLW package experiments: Sandia Natl. Lab., Rept. SAND86-0681, 55 p.; Natl. Tech. Inf. Serv., Rept. DE87 010 523
 see Argüello and Beraun, 1987
- Berger, Angie**
 see de Gruyter, DeLong, Berger, and Vincent, 1987a,b; de Gruyter, Lutonsky, Vincent, and Berger, 1987; and DeLong, Lutonsky, Berger, de Gruyter, and Vincent, 1987
- Berkley, John L.**
 see Goodrich, Keil, Berkley, Laul, Smith, Wacker, Clayton, and Mayeda, 1987
- Berman, David S.**
 1987a (Reisz, Robert R., and Eberth, David A.) A new genus and species of trematopid amphibian from the Late Pennsylvanian of north-central New Mexico: Jour. Vertebrate Paleontology, v. 7, no. 3, p. 252-269, 1 table, 11 figs.
 1987b (Reisz, Robert R., and Eberth, David A.) *Seymouria sanjuanensis* (Amphibia, Batrachosauria) from the Lower Permian Cutler Formation of north-central New Mexico and the occurrence of sexual dimorphism in that genus questioned: Canadian Jour. Earth Sci., v. 24, no. 9, p. 1769-1784, 1 table, 10 figs.
- Betancourt, Julio L.**
 1987 Paleocology of pinyon-juniper woodlands—summary, in Proceedings of the pinyon-juniper conference, Reno, Nevada, January 13-16, 1986, R. L. Everett, compiler: U.S. Dept. Agriculture, Forest Serv., General Tech. Rept. INT-215, p. 129-139
 see Van Devender, Thompson, and Betancourt, 1987
- Beus, Stanley S.**
 1987 (editor) Rocky Mountain Section of the Geological Society of America: Geol. Soc. America, Centennial Field Guide, v. 2, 475 p.
- Bickford, M. E.**
 see Reed, Bickford, Premo, Aleinikoff, and Pallister, 1987
- Bikerman, Michael**
 1987 Observations on the geochemistry of the Mogollon-Datil volcanics (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 588
 see Marvin, Naeser, Bikerman, Mehnert, and Ratté, 1987
- Birdsell, Stephen A.**
 see Robinson, B. A., Aguilar, Kanaori, Trujillo, Counce, Birdsell, and Matsunaga, 1987
- Black, C. C.**
 see Krishtalka, West, Black, Dawson, Flynn, Turnbull, Stucky, McKenna, Bown, Golz, and Lillegraven, 1987
- Blandford, T. Neil**
 1987 (and Wilson, John L.) Large scale parameter estimation through the inverse procedure and uncertainty propagation in the Columbus Basin, New Mexico: New Mexico State Univ., Water Resources Research Inst., Rept. WRR1-226, 247 p., 11 tables
- Blodgett, Robert H.**
 see Dubiel, Blodgett, and Brown, 1987
- Boadi, Isaac O.**
 1987 (Norman, David I., and Robertson, James M.) The Hopewell Lake gold district, Tusas Mountains, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 593
- Bobrow, Danny J.**
 see Johnpeer, Bobrow, Robinson-Cook, and Barrie, 1987a,b; Johnpeer, Robinson-Cook, Bobrow, Barrie, Kelliher, and McNeil, 1987; and Love, D. W., Reimers, Hawley, Johnpeer, and Bobrow, 1987
- Bogaards, Mark A.**
 1987 (Stump, B. W., and Herrin, E. T.) Utilization of high resolution F-K spectra in the analysis of full wave refraction data (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 44, p. 1380
- Bohor, Bruce F.**
 1987 (Modreski, Peter J., and Foord, Eugene E.) Shocked quartz in the Cretaceous-Tertiary boundary clay—evidence for a global distribution: Science, v. 236, no. 4802, p. 705-709
- Bokov, P.**
 1987 Oil and gas potentials and deficient sedimentation zones, III: Geologica Balcanica, v. 17, no. 3, p. 55-70, 1 table (Russian summary)
- Bonnichsen, Robson**
 1987 What is the meaning of Clovis?: Episodes, v. 10, no. 1, p. 18-20, 3 figs.
- Borduain, Leon C.**
 see Koenig, Borduain, Hutchins, Vavruska, and Warner, 1987
- Borns, David J.**
 1987a Rates of evaporite deformation—the role of pressure solution: Sandia Natl. Lab., Rept. SAND85-1599
 1987b Structural development of evaporites in the northern Delaware Basin, in Geology of the western Delaware Basin, west Texas and southeastern New Mexico, D. W. Powers and W. C. James, editors: El Paso Geol. Soc., Guidebook 18, p. 80-97, 6 figs., 2 pls.
 1987c The geologic structures observed in drillhole DOE-2 and their possible origins—Waste Isolation Pilot Plant: Sandia Natl. Lab., Rept. SAND86-1495, 24 p., 18 figs.
 1987 (and Stormont, John C.) Delineation of the dis-

- turbed rock zone around excavations in salt, Waste Isolation Pilot Plant (WIPP), SE New Mexico (abs.): *Geol. Soc. America, Abs. with Program*, v. 19, no. 7, p. 595
- Bouwer, Herman**
see Sabol, Bouwer, and Wierenga, 1987
- Bowie, Mark R.**
1987 Scanning electron microscopy of authigenic zeolites in volcanoclastic sedimentary rocks from New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs*, p. 45; *abs. also in New Mexico Geology*, 1988, v. 10, no. 2, p. 45
1987 (Barker, James M., and Peterson, Stephen L.) Comparison of selected zeolite deposits of Arizona, New Mexico and Texas, in *Aggregates to zeolites in Arizona and the Southwest*, proceedings of the 21st Forum on the Geology of Industrial Minerals, H. Wesley Peirce, editor: Arizona Bureau Geology Mineral Tech., Spec. Paper 4, p. 90-105
1987 (and McLemore, Virginia T.) Clay mineralogy of selected sedimentary and volcanic rocks, Socorro County, New Mexico, in *Guidebook to the Socorro area, New Mexico*, V. T. McLemore and M. R. Bowie, compilers: New Mexico Bureau Mines Mineral Resources, p. 46-54, 3 tables, 5 figs.
see Barker, J. M., Hingtgen, and Bowie, 1987; Chamberlin, McLemore, Bowie, and Hawley, 1987; Chamberlin, McLemore, Bowie, and Post, 1987; Hawley, McLemore, and Bowie, 1987a,b; McLemore and Bowie, 1987; and McLemore, Bowie, and Hawley, 1987a,b
- Bowker, David E.**
1987 (and Davis, Richard E.) Effects of aerosols and surface shadowing on bidirectional reflectance measurements of deserts: *Natl. Aeronautics and Space Admin., Tech. Paper 2756*, 23 p., 1 table
- Bown, T. M.**
see Krishtalka, West, Black, Dawson, Flynn, Turnbull, Stucky, McKenna, Bown, Golz, and Lillegraven, 1987
- Bowring, Samuel A.**
1987 (and Heatherington, A. L.) Isotopic constraints on the magmatic evolution of the south-central Rio Grande rift (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 597
- Bowsher, Arthur L.**
1987 Paleozoic reef complexes of the Sacramento Mountains, New Mexico, in *Rocky Mountain Section of the Geological Society of America*, S. S. Beus, editor: *Geol. Soc. America, Centennial Field Guide*, v. 2, p. 447-450, 9 figs.
- Boyd, Felicia M.**
1987 (and Kreitler, Charles W.) Hydrogeology of a gypsum playa, northern Salt Basin, Texas, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 170-183, 6 figs., 1 appendix
- Boyer, Steven E.**
see Cossey, Swanson, and Boyer, 1987
- Boyle, Darcy C.**
see Love, J. C., Hjellming, and Boyle, 1987
- Brabb, Earl E.**
see Guzzetti and Brabb, 1987
- Bradbury, J. Platt**
see Markgraf and Bradbury, 1987
- Bradley, George L.**
see Van Devender, Bradley, and Harris, 1987
- Bradshaw, Peggy L.**
1987 (and Louderbough, Ellen T.) Compilation of historical radiological data collected in the vicinity of the WIPP site: U.S. Dept. Energy, Rept. DOE-WIPP-87-004
see Banz, Bradshaw, Cockman, Fisher, Prince, Rodriguez, and Uhland, 1987
- Bragg, Linda J.**
see Coleman, Finkelman, and Bragg, 1987
- Breed, Carol S.**
1987 (Musick, H. Brad, and Helm, Paula J.) Effects of eolian processes on surface properties of semiarid lands, in *Interdisciplinary science land surface climatology—executive summaries: Natl. Aeronautics and Space Admin., Rept. X-624-88-1*, p. 53-59, 3 figs.
- Brennan, Daniel J.**
1987 Oil and gas developments in Four Corners—Intermountain area in 1986: *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 10, pt. B, p. 68-71, 3 tables, 1 fig.
- Bretz, Robert E.**
1987 (and Orr, Franklin M., Jr.) Interpretation of miscible displacements in laboratory cores: *SPE Reservoir Engineering*, v. 2, no. 4, p. 492-500, 2 tables, 11 figs.
- Broadhead, Ronald F.**
1987a Carbon dioxide in Union and Harding Counties, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field Conf.*, p. 339-349, 4 tables, 3 figs.
1987b Oil and gas discovery wells drilled in New Mexico in 1986: *New Mexico Geology*, v. 9, no. 4, p. 82-86, 3 tables, 2 figs.
1987c Petroleum exploration targets in New Mexico for the late 1980's and beyond: *New Mexico Geology*, v. 9, no. 2, p. 31-36, 5 figs.
1987 (and King, William E.) Petroleum geology of Pennsylvanian and Lower Permian strata, Tucumcari Basin, east-central New Mexico (abs.): *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 5, p. 534
see Budding and Broadhead, 1987
- Brookins, Douglas G.**
1987a K-Ar and Rb-Sr study of evaporite minerals, WIPP (Waste Isolation Pilot Plant) site, Delaware Basin, New Mexico, in *The geological disposal of high-level radioactive wastes*, D. G. Brookins, editor: Athens, Greece, Theophrastus Publ., p. 573-588, 7 tables
1987b Sandstone uranium deposits—analogs for SURF disposal in some sedimentary rocks, in *Natural analogues in radioactive waste disposal*, B. Come, editor: London, United Kingdom, Graham & Trotman, p. 73-81, 2 tables
1987c Sandstone uranium deposits as analogs for SURF, in *The geological disposal of high-level radioactive wastes*, D. G. Brookins, editor: Athens, Greece, Theophrastus Publ., p. 535-544, 2 tables
1987a (and Lambert, Steven J.) K-Ar and Rb-Sr age determinations from clay minerals and related minerals from the WIPP (Waste Isolation Pilot Plant), southeastern New Mexico, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 133-139, 3 tables, 1 fig.; *Isochron/West*, no. 49, p. 4-7, 3 tables, 1 fig.
1987b (and Lambert, Steven J.) Radiometric dating of Ochoan (Permian) evaporites, WIPP site, Delaware Basin, New Mexico, USA, in *Scientific basis of nuclear waste management*, Vol. X, J. K. Bates and W. S. Seefeldt, editors: New York, Elsevier Scientific Publishing Company, p. 771-780
1987 (and Rigby, J. Keith, Jr.) Geochronologic and geochemical study of volcanic ashes from the Kirtland Shale (Cretaceous), San Juan Basin, New Mexico, in *The Cretaceous-Tertiary boundary in the San Juan and Raton Basins, New Mexico and Colorado*, J. E. Fassett and J. K. Rigby, Jr., editors: *Geol. Soc. America, Spec. Paper 209*, p. 105-110, 2 tables, 3 figs.

- see Abitz and Brookins, 1987; Abitz, Ward, and Brookins, 1987; and Laughlin, Charles, and Brookins, 1987
- Brothers, Sara C.**
1987 Theoretical phase relations in the assemblage—rutile, ilmenite (hematite), aluminum silicate, quartz (RISQ)—implications for geothermometry and oxygen barometry: M.S. thesis, Univ. New Mexico, 77 p.
- Brower, Kay R.**
see Morrow, Buckley, Cather, and Brower, 1987a,b; and Morrow, Buckley, Cather, Brower, and Dandge, 1987
- Brown, Donald W.**
1987 (Franke, Paul R., Jr., Smith, Morton C., and Wilson, Majorie G.) Hot dry rock geothermal energy development program—annual report fiscal year 1985: Los Alamos Natl. Lab., Rept. LA-11101-HDR, 23 p.
see Dey and Brown, 1987
- Brown, F. H.**
see Purtymun, Peters, Buhl, Maes, and Brown, 1987
- Brown, F. Lee**
1987 (and Ingram, Helen) Water and poverty in the Southwest: Tucson, Univ. Arizona Press
- Brown, Karen B.**
1987a Cañoncito de la Uva area, Socorro County, New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 36; abs. also in New Mexico Geology, 1988, v. 10, no. 2, p. 44
1987b Geology of the southern Cañoncito de la Uva area, Socorro County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 98 p., 5 tables, 35 figs., 12 sheets, scale 1:10,000
- Brown, L.**
see Lundy, Hauser, Brown, Oliver, and Kaufman, 1987
- Brown, Larry D.**
1987 Seismic bright spots, deep fluids, magma emplacement and crustal rheology (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 602–603
- Brown, S. Don**
1987 Mineral investigation of the Manzano Wilderness Study Area (NM-010-092), Torrance County, New Mexico: U.S. Bureau Mines, Open-file Rept. MLA-82-87, 9 p., 2 figs.
- Brown, Thomas M.**
see Dubiel, Blodgett, and Brown, 1987
- Brown and Ruth Laboratories, Inc.**
1987 (GeoChem Laboratories, Inc., and Precision Service, Inc.) Geochemical analyses of hydrocarbons, cuttings, and cuttings headspace gas, Mar Oil and Gas, No. 1 Estes well, Torrance County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 301, 38 p., 7 tables, 5 figs.
- Brown University**
1987 Thermal regimes of major volcanic centers—magnetotelluric constraints—progress report: Brown Univ., Dept. Geol. Sci., Rept. DOE/ER/13665-TI, 13 p.; Natl. Tech. Inf. Serv., Rept. DE90 005 335
- Bruce, Robert N.**
see Larson, Mutschler, and Bruce, 1987
- Brumbaugh, D. S.**
1987 A tectonic boundary for the southern Colorado Plateau: Tectonophysics, v. 136, nos. 1/2, p. 125–136, 14 figs.
- Brunner, Jake**
see Magee, Moore, and Brunner, 1987
- Bruno, Lawrence**
1987 Depositional environments and diagenesis of the Cable Canyon Sandstone and Upham Dolomite, Ordovician of southern New Mexico: M.S. thesis, Univ. Houston, 278 p., 4 tables, 58 figs., 3 appendices
- Bryant, Laurie J.**
1987 A new genus and species of Amiidae (Holostei; Osteichthyes) from the Late Cretaceous of North America, with comments on the phylogeny of the Amiidae: Jour. Vertebrate Paleontology, v. 7, no. 4, p. 349–361
- Buckley, Jill S.**
see Morrow, Buckley, Cather, and Brower, 1987a,b; and Morrow, Buckley, Cather, Brower, and Dandge, 1987
- Budding, Antonius J.**
1987 (and Broadhead, Ronald F.) Geology and geochemistry of Santa Rosa tar sands, in Exploration for heavy crude oil and natural bitumen, R. F. Meyer, editor: Am. Assoc. Petroleum Geologists, Studies in Geology, no. 25, p. 293–299, 3 tables, 3 figs.
- Budnik, Roy T.**
1987 Late Miocene reactivation of ancestral Rocky Mountain structures in the Texas panhandle—a response to Basin and Range extension: Geology, v. 15, no. 2, p. 163–166, 4 figs.
- Buhl, Thomas E.**
1987 (Van Etten, Don M., and Hansen, Wayne R.) Investigation of thorium contamination at two target areas at White Sands Missile Range: Los Alamos Natl. Lab., Rept. LA-10893-MS, 31 p.
see Purtymun, Peters, Buhl, Maes, and Brown, 1987
- Bullard, Thomas F.**
see Anderholm and Bullard, 1987
- Bullock, Scott**
see LeMone, Sandidge, Fararro, Kiely, Bullock, and Sivils, 1987a,b
- Burdick, Donald G.**
see Dufford, Burdick, Garvey, Gibson, Grimes, Pausé, and Turmelle, 1987a,b
- Burgin, Lorraine B.**
1987 (and Eveleth, Robert W.) The mineral industry of New Mexico, in Minerals yearbook, 1987—v. II area reports—domestic: U.S. Bureau Mines, p. 271–280, 5 tables, 1 fig. (1989)
- Burns, Kerry L.**
1987a Geological structures from televiewer logs of GT-2, Fenton Hill, New Mexico—part 1, feature extraction: Los Alamos Natl. Lab., Rept. LA-10619-HDR-pt. 1, 43 p.; Natl. Tech. Inf. Serv., Rept. DE87 014 710
1987b Geological structures from televiewer logs of GT-2, Fenton Hill, New Mexico—part 2, rectification: Los Alamos Natl. Lab., Rept. LA-10619-HDR-pt. 2, 43 p.; Natl. Tech. Inf. Serv., Rept. DE87 014 711
1987c Geological structures from televiewer logs of GT-2, Fenton Hill, New Mexico—part 3, quality control: Los Alamos Natl. Lab., Rept. LA-10619-HDR-pt. 3, 20 p.; Natl. Tech. Inf. Serv., Rept. DE88 005 086
- Burt, Donald M.**
see Reece, Ruiz, Patchett, and Burt, 1987
- Butler, R. F.**
see Lindsay, Johnson, Opdyke, and Butler, 1987
- Byrer, C. W.**
1987 (Mroz, T. H., and Covatch, G. L.) Coalbed methane production potential in U.S. basins: Jour. Petroleum Tech., v. 39, no. 7, p. 821–834, 2 tables, 30 figs.
- Cahenzli, L.**
see Chylek, Srivastava, Cahenzli, Pinnick, and Dod, 1987
- Cain, Doug**
1987 (Helsel, Dennis R., and Ragone, Stephen E.) Reconnaissance appraisals of anthropogenic effects on regional ground-water quality: U.S. Geol. Survey, Open-file Rept. 87-0109E, p. E25–E31
- Caldwell, Jack A.**
1987 (and Hobbs, Bryan T.) Environmental geotechnology and tailings reclamation, in Proceedings of a spe-

- cialty conference on geotechnical practice for waste disposal '87, R. D. Woods, editor: Geotechnical Special Publication, v. 13, p. 362–376
- 1987 (Larson, Ned, and Rager, Ron) Assessment of the effects of potential ground subsidence on a reclaimed tailings pile, in *Geotechnical and geohydrological aspects of waste management*, D. van Zyl, editor: Chelsea, Michigan, Lewis Publishers, Inc., p. 110–114, 1 table
see D'Antonio, Caldwell, and Thiers, 1987
- Caldwell, Kenneth R.**
1987 Depositional history and paleotectonic implications of the Pennsylvanian–Permian Sangre de Cristo Formation, northern New Mexico: M.S. thesis, Univ. Texas (Dallas), 149 p., 40 figs., 2 appendices
see Soegaard and Caldwell, 1987
- Calhoun, Charles A.**
1987 Operations on the upper Rio Grande, in *Managing the river—proceedings of the thirty-first annual New Mexico water conference*, L. G. Harris, editor: New Mexico State Univ., Water Resources Research Inst., Rept. WRR1-219, p. 31–43, 3 figs.
- Callender, Jonathan F.**
see Olsen, Baldrige, and Callender, 1987
- Calvin, Edward M.**
1987 A review of the volcanic history and stratigraphy of northeastern New Mexico, the Ocate and Raton–Clayton volcanic fields, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 83–85, 2 tables, 3 figs.
- Campbell, Andrew R.**
1987 (and Robinson–Cook, Sylveen) Infrared fluid inclusion microthermometry on coexisting wolframite and quartz: *Econ. Geology*, v. 82, no. 6, p. 1640–1645, 1 table, 5 figs.
see Manrique and Campbell, 1987
- Campbell, Frank W.**
1987a Coal geology of the Salt Lake coal field, in *Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico*, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 65–71, 4 tables, 6 figs.
1987b Use of sulfates to identify weathered coal: *New Mexico Geology*, v. 9, no. 1, p. 7–10, 1 table, 4 figs.
1987 (and Roybal, Gretchen H.) Characterization of New Mexico coals, Menefee and Crevasse Canyon Formations, in *Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico*, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 41–48, 6 tables, 6 figs.
see Roybal, Campbell, Beaumont, Cohen, Kuellmer, Kottlowski, and Cook, 1987
- Campbell, G. S.**
see Weeks, E. P., Weaver, Campbell, and Tanner, 1987
- Candelaria, Magell P.**
1987a Marine sheet sandstones of the upper Yates Formation, southern Guadalupe Mountains, New Mexico (abs.): *New Mexico Inst. Mining and Tech.*, *New Mexico Geol. Soc.*, 1987 Spring Mtg., Abs. with Programs, p. 10–11; abs. also in *New Mexico Geology*, 1988, v. 10, no. 2, p. 39
1987b Origin of sandstone-carbonate alterations of the upper Yates Formation, Northwest shelf, Delaware Basin, New Mexico (abs.): *New Mexico Inst. Mining and Tech.*, *New Mexico Geol. Soc.*, 1987 Spring Mtg., Abs. with Programs, p. 12–13; abs. also in *New Mexico Geology*, 1988, v. 10, no. 2, p. 40
- Caparis, Petros P.**
1987 Stable isotope chemistry of the reservoir of the active geothermal system in Valles caldera, New Mexico: M.S. thesis, Univ. California (Davis), 88 p.
- Capetta, H.**
1987 Chondrichthyes II, Mesozoic and Cenozoic Elosmobranchii: *Handbook of Paleichthyology*, v. 3B, 193 p.
- Carman, M. R.**
1987 Conodonts of the Lake Valley Formation (Kinderhookian–Osagean), Sacramento Mountains, New Mexico, USA, in *Selected studies in Carboniferous paleontology and biostratigraphy: Frankfurt am Main, Germany*, Courier Forschungsinstitut Senckenberg, p. 47–73
- Carpenter, Philip J.**
1987 (Sanford, Allan R., and Ake, Jon P.) A technique to obtain a Q(f) model from microearthquake swarms: *Geophys. Research Letters*, v. 14, no. 8, p. 828–831, 3 tables
- Carr, David A.**
see Franczyk, Flores, and Carr, 1987
- Carrasco, R. C.**
see Uhland, Randall, and Carrasco, 1987
- Carter, Joel A.**
see Lambert and Carter, 1987
- Casas, E.**
1987 (and Lowenstein, Tim K.) Shallow burial diagenesis of Quaternary halite rocks, Basin and Range province, U.S. (abs.): *Soc. Econ. Paleontologists and Mineralogists, Midyear Mtg., Abs. with Programs*, v. 4, p. 14
- Case, John B.**
1987 (and Deal, Dwight E.) Preliminary hydrologic and geomechanical evaluations of brine inflow from bedded salt to a nuclear waste repository (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 614
1987 (and Kelsall, Peter C.) Coupled processes in repository sealing, in *Coupled processes associated with nuclear waste repositories*, C.–F. Tsang, editor: Orlando, Florida, Harcourt Brace Jovanovich, p. 591–604
1987 (Withiam, James L., and Kelsall, Peter C.) Laboratory investigation of crushed salt consolidation, in *Rock mechanics—proceedings of the 28th U.S. symposium*, I. W. Farmer and others, editors: Rotterdam, Balkema, p. 189–196, 1 table
see Deal and Case, 1987; and Deal, Case, Deshler, Drez, Myers, and Tyburski, 1987
- Cash, Daniel J.**
1987 (and Wolff, Joyce J.) Seismic activity in north-central New Mexico, 1983, in *United States earthquakes, 1983*, C. W. Stover, editor: U.S. Geol. Survey, Bull. 1698, p. 143–144
see Sanford, Jaksha, and Cash, 1987
- Cather, Steven M.**
1987 Prediagenetic sedimentary fractionation of andesitic volcanoclastic detritus in a semiarid climate—an example from the Eocene Datil Group, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 615
1987 (McIntosh, William C., and Chapin, Charles E.) Stratigraphy, age, and rates of deposition of the Datil Group (upper Eocene–lower Oligocene), west-central New Mexico: *New Mexico Geology*, v. 9, no. 3, p. 50–54, 1 table, 4 figs.
see Chapin, C. E., Cather, and McIntosh, 1987; Morrow, Buckley, Cather, and Brower, 1987a,b; and Morrow, Buckley, Cather, Brower, and Dandge, 1987
- Cavazza, William**
1987 Miocene sediment dispersal in the central Española Basin, Rio Grande rift, New Mexico, USA: *Sed. Geology*, v. 51, nos. 1–2, p. 119–135
see Ingersoll, Cavazza, Baldrige, and Shafiqullah, 1987

Cesbron, F.

1987 New minerals—obradovicite $H_4(K,Na)CuFe_2(AsO_4)(MoO_4)_5 \cdot 12H_2O$, chenite $Pb_4Cu(SO_4)_2(OH)_6$, and georgechaoite $NaKZrSi_3O_9 \cdot 2H_2O$: *Mineraux et Fossiles—le Guide du Collectionneur*, v. 140, p. 28–30 (French)

Chadam, J.

see Ortleva, Chadam, and Moore, 1987

Chafetz, Henry S.

1987 (Rush, P. F., and Schoderbek, D.) Black stromatolites of Pennsylvanian age—an ancient analogue to the Mn-rich sub-recent stromatolites from the Dead Sea (abs.): *Soc. Econ. Paleontologists and Mineralogists, Midyear Mtg., Abs. with Programs*, v. 4, p. 15

Chakoumakos, Bryan C.

1987 (and Lumpkin, Gregory R.) Constraints on the crystallization of the Harding pegmatite, Taos County, New Mexico (abs.): *Geol. Assoc. Canada, Mineral. Assoc. Canada, Canadian Geophys. Union, Joint Ann. Mtg., Program with Abs.*, v. 12, p. 30

see Lumpkin and Chakoumakos, 1987

Chakrabarti, S.

1987 (Patrick, W. C., and Duplancic, N.) Digital signal processing of data from borehole creep closure, in *Rock mechanics—proceedings of the 28th U.S. symposium*, I. W. Farmer and others, editors: Rotterdam, Balkema, p. 249–256, 1 table

Chamberlin, Richard M.

1987 Compositionally distinct Eocene fluvial systems in the San Juan Basin (NM–CO)—a preliminary interpretation of “NURE” stream-sediment geochemical data (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 265

1987 (McLemore, Virginia T., Bowie, Mark R., and Hawley, John W.) Roadlog from Socorro to Sedillo Hill and to Escondida, in *Guidebook to the Socorro area, New Mexico*, V. T. McLemore and M. R. Bowie, compilers: New Mexico Bureau Mines Mineral Resources, p. 22–24, 1 fig.

1987 (McLemore, Virginia T., Bowie, Mark R., and Post, James L.) Roadlog from Socorro to Blue Canyon area of Socorro Peak, to US–60 clay pit, and to Luis Lopez manganese district, in *Guidebook to the Socorro area, New Mexico*, V. T. McLemore and M. R. Bowie, compilers: New Mexico Bureau Mines Mineral Resources, p. 15–21, 6 figs.

see Anderson, O. J., Chamberlin, and Roybal, 1987

Channell, James K.

1987 (Chaturvedi, Lokesh, and Chapman, Jenny B.) Modeling of radionuclide transport in the Rustler Formation, southeastern New Mexico (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 16, p. 318

Chapin, Charles E.

1987 Laramide strike-slip faults in the southern Rocky Mountains—examples, piercing points, structural style (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 265

1987 (Cather, Steven M., and McIntosh, William C.) Evolution of the Rio Grande rift—an outline (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 617
see Aldrich, Chapin, Laughlin, and Zoback, 1987; and Cather, McIntosh, and Chapin, 1987

Chapin, Mark A.

1987 (and Nelson, Eric P.) Laramide basement-involved deformation in the Fra Cristobal Range, south-central New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 265

Chapman, Jenny B.

see Channell, Chaturvedi, and Chapman, 1987

Charles, Robert W.

see Hulén, Nielson, Goff, Gardner, and Charles, 1987;

Janecky, Charles, and Goff, 1987; and Laughlin, Charles, and Brookins, 1987

Chase, C.

see Wallace and Chase, 1987

Chaturvedi, Lokesh

1987 (editor) The Rustler Formation at the WIPP site—report of a workshop on the geology and hydrology of the Rustler Formation as it relates to the WIPP project: New Mexico Health and Environ. Dept., Environ. Improvement Div., Environ. Evaluation Group., Rept. EEG–34, 70 p.; *Natl. Tech. Inf. Serv., Rept. DE87 010 503*

see Channell, Chaturvedi, and Chapman, 1987

Chavez, L. D.

see Gallaher, McQuillan, Chavez, Hull, and Eidson, 1987

Chavez–Quirarte, Ramon

see Dyer, Chavez–Quirarte, and Guthrie, 1987

Chen, Chia–Shyun

1987 (and Wilson, John L.) Radon production in pumping wells, in *Radon, radium, and other radioactivity in ground water—hydrogeologic impact and application to indoor airborne contamination*, B. Graves, editor: Chelsea, Michigan, Lewis Publishers, Inc. and Natl. Water Well Assoc. (Proc. of Natl. Water Well Assoc. Conf., April 7–9, 1987, Somerset, New Jersey), p. 423–436, 5 figs.

Cheng, C. H.

1987 Fracture characterization using hydrophone and 3–component VSPs at Fenton Hill (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1346–1347

Chenoweth, William L.

1987 Developments in uranium in 1986: *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 10, pt. B, p. 384–389, 2 tables, 3 figs.

Chevron USA, Inc.

1987 Organic geochemical analyses, Baker and Taylor No. 1–10 State well, Quay County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 274, 2 p., 1 table

see Core Laboratories, Inc. and Chevron USA, Inc., 1987; and GeoChem Laboratories, Inc. and Chevron USA, Inc., 1987

Christenson, Scott C.

see Parkhurst and Christenson, 1987

Chronic, Halka

1987a Pages of stone—geology of western national parks and monuments; the desert Southwest: *The Mountaineers*, v. 3, 168 p.

1987b *Roadside geology of New Mexico*: Missoula, Montana, Mountain Press Publishing Company, 255 p.

Churan, Kenneth R.

see Trauger and Churan, 1987

Chylek, P.

1987 (Srivastava, V., Cahenzli, L., Pinnick, R. G., and Dod, R. L.) Aerosol and graphitic carbon contents of snow: *Jour. Geophys. Research*, v. 92, no. 8, p. 9801–9809, 8 tables, 8 figs.; *abs. in Sel. Water Resources Abs.*, 1988, v. 21, no. 5, p. 5–6

Cipar, John J.

1987 Crustal structure of the Tularosa Valley, southern Rio Grande rift, New Mexico (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1360

Clark, Ira G.

1987 *Water in New Mexico—a history of its management and use*: Albuquerque, Univ. New Mexico Press., 839 p.

Clarkson, Gerry

1987 (and Reiter, Marshall) The thermal regime of the San Juan Basin since Late Cretaceous time and its relationship to San Juan Mountains thermal sources: *Jour. Volcanology and Geothermal Research*, v. 31, p. 217–237
see Reiter, Barroll, Minier, and Clarkson, 1987

- Clayton, Robert N.**
see Goodrich, Keil, Berkley, Laul, Smith, Wacker, Clayton, and Mayeda, 1987
- Clemens, W. A.**
see Archibald, Gingerich, Lindsay, Clemens, Krause, and Rose, 1987
- Clemons, Russell E.**
1987a El Paso Formation—a Lower Ordovician platform carbonate deposit (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 5, p. 539
1987b Mineralization, alteration, and igneous activity in the Florida Mountains, southwestern New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 42; abs. also in New Mexico Geology, 1988, v. 10, no. 2, p. 44–45
see Evans and Clemons, 1987; and Loring, Clemons, and Armstrong, 1987
- Clopine, William W.**
1987 (Manger, Walter L., and Sutherland, Patrick K.) Basal Pennsylvanian biostratigraphic relations, west Texas–southern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 3, p. 148
see Manger, Sutherland, and Clopine, 1987
- Cobban, William A.**
1987a Ammonite faunas of the Sarten Sandstone (Cretaceous), Luna County, New Mexico: U.S. Geol. Survey, Bull. 1641–B, 17 p., 5 pls., 4 tables, 1 fig.
1987b An ammonoid fauna from the Glencairn Shale Member of the Lower Cretaceous Purgatoire Formation, Baca County, Colorado, in Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 217–222, 4 figs.
1987c The Upper Cretaceous ammonite *Eubostriochoceras matsumoto* in the Western Interior of the United States, in Shorter contributions to paleontology and stratigraphy, W. J. Sando, editor: U.S. Geol. Survey, Bull. 1690–A, p. A1–A5, 1 pl.
1987d The Upper Cretaceous (Cenomanian) ammonites *Metengonoceras dumbli* (Cragin) and *M. acutum* Hyatt, in Shorter contributions to paleontology and stratigraphy, W. J. Sando, editor: U.S. Geol. Survey, Bull. 1690–C, p. C1–C7, 3 pls.
- Cockman, J. S.**
see Banz, Bradshaw, Cockman, Fisher, Prince, Rodriguez, and Uhland, 1987
- Cohen, Arthur D.**
see Roybal, Campbell, Beaumont, Cohen, Kuellmer, Kottlowski, and Cook, 1987
- Coleman, S. Lynn**
1987 (Finkelman, Robert B., and Bragg, Linda J.) Selenium concentration and mode of occurrence in coals of the United States (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 624
- Collins, Dannie L.**
see Wahl, Collins, and Aldridge, 1987
- Condie, Kent C.**
1987 Early Proterozoic arc terranes and continental accretion in the southwestern United States (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 625
see Norman, Condie, Smith, and Thomann, 1987
- Condit, Christopher D.**
1987 (Aubele, Jayne C., and Crumpler, L. S.) Volcanic record of the Springerville volcanic field, east-central Arizona (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 625
see Aubele, Crumpler, and Condit, 1987
- Connolly, James R.**
1987 (and Kues, Barry S.) Precambrian–upper Paleozoic geology along I–40 east of Albuquerque, New Mexico, in Rocky Mountain Section of the Geological Society of America, S. S. Beus, editor: Geol. Soc. America, Centennial Field Guide, v. 2, p. 437–440, 5 figs.
- Connors, Kathryn F.**
1987 (Gardner, Thomas W., and Petersen, Gary W.) Classification of geomorphic features and landscape stability in northwestern New Mexico using simulated SPOT imagery: Remote Sensing of Environment, v. 22, no. 2, p. 187–207, 4 tables, 7 figs.
see Petersen, Connors, Miller, Day, and Gardner, 1987
- Conrad, Kelly**
1987 (Lockley, Martin G., and Prince, Nancy K.) Triassic and Jurassic vertebrate-dominated trace fossil assemblages of the Cimarron Valley region—implications for paleoecology and biostratigraphy, in Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 127–138, 13 figs.
- Conselman, Frank B.**
1987 Upper Permian (Guadalupian) facies and their association with hydrocarbons—Permian Basin, west Texas and New Mexico—discussion: Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 2, p. 224–225
- Conti, R. D.**
1987 Wolfcampian depositional systems—the transformation of the Palo Duro Basin from open-marine to restricted-marine depositional environments (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 626
- Cook, Kevin H.**
1987 (and Arkell, Brian) Geology and coal resources of the Mariano Springs quadrangle, Catron County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 326, 18 p., 4 figs., 2 sheets, scale 1:24,000
see Roybal, Campbell, Beaumont, Cohen, Kuellmer, Kottlowski, and Cook, 1987
- Corbetta, Patricia A.**
1987 Mineral investigation of a part of the Brokeoff Mountains (NM–030–112) Wilderness Study Area, Otero County, New Mexico, and the Lonesome Ridge (NM–060–801) and a part of the Devil's Den (NM–060–145) Wilderness Study Areas, Eddy County, New Mexico: U.S. Bureau Mines, Open-file Rept. MLA–43–87, 17 p., 3 tables, 2 figs.
- Core Laboratories, Inc.**
1987 (and Chevron USA, Inc.) Hydrocarbon source-rock analysis, True Oil Company No. 21 Medina well, Colfax County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 272, 8 p., 2 tables, 1 fig.
see GeoChem Laboratories, Inc. and Core Laboratories, Inc., 1987
- Cornell, William C.**
1987 (and LeMone, David V.) The Anapra sandstone of Cerro de Cristo Rey, Doña Ana County, New Mexico (abs.): New Mexico Jour. Sci., v. 27, no. 2, p. 123
- Cossey, Stephen P. J.**
1987 (Swanson, Steven C., and Boyer, Steven E.) A comparison of the geologic history of Arizona, New Mexico, and west Texas—Precambrian to recent (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 628
- Counce, Dale A.**
see Robinson, B. A., Aguilar, Kanaori, Trujillo, Counce, Birdsell, and Matsunaga, 1987; Shevenell, Goff, Vuataz, Trujillo, Counce, Janik, and Evans, 1987; and Trujillo, Counce, Grigsby, Goff, and Shevenell, 1987
- Courington, Donna L.**
1987a Sandstone member of Lower Cretaceous U–Bar Formation in East Potrillo Mountains, south-central New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Pro-

- grams, p. 17; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 41
- 1987b** Shallow shelf sand ridges of the Lower Cretaceous U-Bar Formation (upper Aptian to middle Albian), East Potrillo Mountains, south-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 628-629
- Covatch, G. L.**
see Byrer, Mroz, and Covatch, 1987
- Cox, Eugene W.**
1987 (Hermann, Michael L., and Hesse, Cortney E.) Geology and ore deposits of the southern San Mateo Mountains, Socorro County, New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 43; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 45
- Cox, Warren**
see Stephens, Cox, and Havlena, 1987
- Crane, Michael P.**
1987 San Juan GIS project (abs.): U.S. Geol. Survey, Open-file Rept. 87-314, p. 21
- Cravens, Daniel L.**
1987 Subsurface investigations for petroleum on the Emery uplift, southeast Utah: M.S. thesis, New Mexico State Univ., 60 p.
- Cromwell, Dave**
1987 (and Mazzullo, Louis J., editors) The Leonardian facies in west Texas and SE New Mexico and guidebook to the Glass Mountains, west Texas: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Publ. 87-27, 111 p.
- Crone, Anthony J.**
1987 (and Omdahl, Eleanor M., editors) Directions in paleoseismology—proceedings of the 39th conference: U.S. Geol. Survey, Open-file Rept. 87-673, 456 p.
- Crumpler, L. S.**
see Aubele, Crumpler, and Condit, 1987; and Condit, Aubele, and Crumpler, 1987
- Cruver, S. K.**
see Krason, Wodzicki, Cruver, Juilland, and King, 1987
- Crysdale, B. L.**
1987 Fluid inclusion evidence for the origin and diagenesis of sparry calcite cement in the Capitan Limestone, McKittrick Canyon, Permian Basin, west Texas (abs.): Am. Current Research on Fluid Inclusions (ACROFI) mtg., Socorro, New Mexico, January 5-7, 1987, Program and Abs., unpaginated
- Cummings, Ronald G.**
see DuMars, Rodgers, Cummings, and others, 1987
- Cummings, S. G.**
1987 Natural gas drilling methods and practice—San Juan Basin, New Mexico: Soc. Petroleum Engineers, preprint no. SPE-16167
- Cunico, John J.**
1987 Water management responsibilities for the Rio Grande basin, *in* Managing the river—proceedings of the thirty-first annual New Mexico water conference, L. G. Harris, editor: New Mexico State Univ., Water Resources Research Inst., Rept. WRR1-219, p. 23-30
- Curtis, J.**
see Jiracek, Curtis, Meile, and Vozoff, 1987
- Curtiss, G.**
see Larson, Patterson, Curtiss, Drake, and Mutschler, 1987
- Cushman, Robert A., Jr.**
see Newman and Cushman, 1987
- Czaminske, Gerald K.**
see Dillet and Czaminske, 1987
- Dam, William L.**
1987a Methods and preliminary results of geochemical sampling, San Juan Basin, New Mexico (abs.); Am. Water Resources Assoc., 23rd Ann. Conf. and Symp., Salt Lake City, Utah, November 1-6, 1987, Proc.
- 1987b** Methods and preliminary results of geochemical sampling, San Juan Basin, New Mexico, Colorado, Arizona, and Utah, *in* Regional aquifer systems of the United States—aquifers of the western mountain area, J. S. McLean and A. I. Johnson, editors: Am. Water Resources Assoc., Monograph Ser., no. 14, p. 203-217
- Dandge, V.**
see Morrow, Buckley, Cather, Brower, and Dandge, 1987
- D'Antonio, John R.**
1987 (Caldwell, Jack A., and Thiers, G. R.) Burying the nuclear past: Civil Engineering, v. 57, no. 2, p. 55-57, 3 figs.
- Dash, Zora V.**
see Dreesen, Malzahn, Fehler, and Dash, 1987; and Kelkar, Dash, Malzahn, and Hendron, 1987
- Daugherty, L. A.**
see Monger, Daugherty, McCurry, and Earl, 1987
- Daves, Gary**
1987 Albuquerque and the Rio Grande, *in* Managing the river—proceedings of the thirty-first annual New Mexico water conference, L. G. Harris, editor: New Mexico State Univ., Water Resources Research Inst., Rept. WRR1-219, p. 52-69
- Davidow-Henry, Beth R.**
1987 New metoposaurus from southwestern United States and their phylogenetic relationships: M.S. thesis, Texas Tech Univ., 75 p.
- Davies, Peter B.**
1987 Modeling areal, variable-density, ground-water flow using equivalent freshwater head—analysis of potentially significant errors: Natl. Water Well Assoc., Conf., Denver, Colorado, February 10-12, 1987, Proc., v. II, p. 888-903
- Davis, Donald G.**
1987 Revelations in Lechuguilla Cave: Rocky Mountain Caving, v. 4, no. 4, p. 19-23
- Davis, George H.**
1987 (and VandenDolder, Evelyn M., editors) Geologic diversity of Arizona and its margins—excursions to choice areas: Arizona Bureau Geology Mineral Tech., Spec. Paper 5, 422 p.
- Davis, Linda L.**
1987a The geology, petrography, and geochemistry of the intrusives at Reilly Peak, New Mexico with a description of the associated iron-rich polymetallic skarn: M.S. thesis, Univ. Georgia (Athens), 109 p., 9 tables, 18 figs., 4 appendices, 1 sheet, scale 1:12,000
- 1987b** The petrology and geochemistry of the intrusive rocks and associated iron-rich polymetallic skarn at Reilly Peak, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 269
- Davis, Richard E.**
see Bowker and Davis, 1987
- Dawson, M. R.**
see Krishtalka, West, Black, Dawson, Flynn, Turnbull, Stucky, McKenna, Bown, Golz, and Lillegraven, 1987
- Day, Gordon W.**
see Barton and Day, 1987; Delaney, T. A., Day, Turner, and Jones, 1987; and Jones, Turner, and Day, 1987
- Day, J. E.**
1987 Fauna and biostratigraphy of the Juniper Hill Member (early Late Devonian) of the Lime Creek Formation, north-central Iowa: Iowa Academy Sci., Proc., v. 94, no. 1
- Day, R. L.**
see Petersen, Connors, Miller, Day, and Gardner, 1987

Deal, Dwight E.

1987 Brine occurrences in the Permian Salado Formation as observed in the underground workings for the Waste Isolation Pilot Plant (WIPP) project, southeastern New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 637-638

1987 (and Case, J. B.) Brine sampling and evaluation program—phase I report: U.S. Dept. Energy, rept. prepared by IT Corp. for Engineering and Repository Technology Dept., Westinghouse Electric Corp., Rept. DOE-WIPP-87-008, 46 p., 2 tables, 9 figs., 5 appendices

1987 (Case, J. B., Deshler, R. M., Drez, P. E., Myers, J., and Tyburski, J. R.) Brine sampling and evaluation program—phase II report: U.S. Dept. Energy, rept. prepared by IT Corp. for Engineering and Repository Technology Dept., Westinghouse Electric Corp., Rept. DOE-WIPP-87-010, 198 p., 11 tables, 25 figs., 2 appendices; *Natl. Tech. Inf. Serv., Rept. DE89 017 240*

see Case and Deal, 1987

de Albuquerque, J. Stephen

see Neuhauser, Lucas, de Albuquerque, Loudon, Hayden, Kietzke, Oakes, and Des Marais, 1987

Decker, David

1987 Coal bed methane—dynamic new segment of petroleum industry (abs.): *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 5, p. 547

1987 (and Horner, D. M.) Origin and production implications of abnormal coal reservoir pressure: *Gas Research Inst., Univ. Alabama and U.S. Dept. Labor, Coalbed Methane Symp., Tuscaloosa, Alabama, November 16-19, 1987, Proc.*, p. 51-62

see Kelso, Decker, Wicks, and Horner, 1987

DeGraff, James M.

1987 (and Aydin, Atilla) Surface morphology of columnar joints and its significance to mechanics and direction of joint growth: *Geol. Soc. America, Bull.*, v. 99, no. 5, p. 605-617, 16 figs.

de Gruyter, Beverly

1987a (DeLong, Harry, Berger, Angie, and Vincent, Dwain) Draft protection plan for Elk Springs—an area of critical environmental concern: U.S. Bureau Land Management, rept., 27 p., 2 tables, 8 figs.

1987b (DeLong, Harry, Berger, Angie, and Vincent, Dwain) Draft protection plan for San Luis Mesa raptor area—an area of critical environmental concern: U.S. Bureau Land Management, rept., 27 p., 2 tables, 5 figs.

1987 (DeLong, Harry, Hester, Pat, and Walter, Kathy) Draft protection plan for Tent Rocks—an area of critical environmental concern: U.S. Bureau Land Management, rept., 37 p., 3 tables, 14 figs.

1987 (Lutonsky, Tony, Vincent, Dwain, and Berger, Angie) Draft protection plan for Cabezon Peak—an area of critical environmental concern: U.S. Bureau Land Management, rept., 31 p., 5 tables, 5 figs.

see DeLong, Lutonsky, Berger, de Gruyter, and Vincent, 1987

Delaney, Paul T.

1987 Ship Rock, New Mexico—the vent of a violent volcanic eruption, in *Rocky Mountain Section of the Geological Society of America, S. S. Beus, editor: Geol. Soc. America, Centennial Field Guide*, v. 2, p. 411-415, 5 figs.

Delaney, Tracy A.

1987 (Day, Gordon W., Turner, Robert L., and Jones, Janet L.) Analytical results and sample locality map of heavy-mineral-concentrate and rock samples from the Organ Mountains Wilderness Study Area (NM-030-074), Doña Ana County, New Mexico: U.S. Geol. Survey, Open-file Rept. 87-638, 15 p., 1 sheet, scale 1:24,000

DeLong, Harry

1987 (Lutonsky, Tony, Berger, Angie, de Gruyter, Bev-

erly, and Vincent, Dwain) Draft protection plan for Ojito—an area of critical environmental concern: U.S. Bureau Land Management, rept., 32 p., 3 tables, 12 figs.

see de Gruyter, DeLong, Berger, and Vincent, 1987a,b; and de Gruyter, DeLong, Hester, and Walter, 1987

DeMark, Ramon S.

1987 Mining development and minerals of the Hansonburg mining district, Socorro, New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Mineral Symp.; abs. also in New Mexico Geology*, 1988, v. 10, no. 1, p. 17-18

De Nault, Kenneth J.

1987 The Valles caldera, Jemez Mountains, New Mexico, in *Rocky Mountain Section of the Geological Society of America, S. S. Beus, editor: Geol. Soc. America, Centennial Field Guide*, v. 2, p. 425-429, 3 figs.

Dennis, Bert R.

1987 (Kolar, J. D., and Lawton, R. G.) Vapor mass ratio measurements in geothermal production wells: Los Alamos Natl. Lab., Rept. LA-UR-87-2006, 6 p.; *Natl. Tech. Inf. Serv., Rept. DE87 011 774*

see Whetten, Dennis, Dreesen, House, Murphy, Robinson, and Smith, 1987

DePaolo, Donald J.

see Bennett and DePaolo, 1987; Bennett, DePaolo, and Smith, 1987; and Perry, Baldrige, and DePaolo, 1987a,b

Deshler, R. M.

see Deal, Case, Deshler, Drez, Myers, and Tyburski, 1987

Des Marais, David

see Neuhauser, Lucas, de Albuquerque, Loudon, Hayden, Kietzke, Oakes, and Des Marais, 1987

Dethier, David P.

1987a (and Harrington, Charles D.) Geologic dating of late Cenozoic erosion surfaces near Española, New Mexico, in *Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico, C. Menges, editor: Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf.*, p. 111-131, 2 tables, 5 figs.

1987b (and Harrington, Charles D.) Late Cenozoic incision of the western Española Basin, New Mexico—evidence from dating of geomorphic surfaces (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 641-642

see Harrington and Dethier, 1987; and Menges, Dethier, Love, and Karas, 1987

DeWitt, Ed

see Shannon, Naeser, DeWitt, and Wallace, 1987

Dey, Thomas N.

1987 (and Brown, Donald W.) Stress measurements in a deep granitic rock mass using hydraulic fracturing and differential strain curve analysis, in *International Symposium on Rock Stress and Rock Stress Measurements, Stockholm, Sweden: Centek, Proc.*, p. 351-357

1987 (and Kranz, Robert L.) Flake mechanics, borehole breakouts and thermal spallation: Los Alamos Natl. Lab., Rept. LA-UR-87-1026, 15 p.; also in *Rock mechanics—proceedings of the 28th U.S. symposium, I. W. Farmer and others, editors: Rotterdam, Balkema*, p. 413-420

Dickerson, Patricia W.

1987 Influence of antecedent structures upon Laramide deformation in southwestern U.S. and northern Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 271

Dickerson, R. P.

see Holdaway, Geving, Goodge, Dickerson, and Dutton, 1987

Dickinson, William R.

1987 (and Klute, Margaret A., editors) *Mesozoic rocks*

- of southern Arizona and adjacent areas: *Arizona Geol. Soc., Digest*, v. 18, 394 p.
- 1987** (Klute, Margaret A., Hayes, Michael J., Janecke, Suzanne U., Lundin, Erik A., McKittrick, Mary A., and Olivares, Mark D.) Laramide tectonics and paleogeography inferred from sedimentary record in Laramide basins of central Rocky Mountain region (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 271
- Dillet, Brigitte**
1987 (and Czamanske, Gerald K.) Aspects of the petrology, mineralogy, and geochemistry of the granitic rocks associated with Questa caldera, northern New Mexico: *U.S. Geol. Survey, Open-file Rept.* 87-258, 238 p., 26 tables (1989)
- Dixon, Kevin L.**
1987 (and Lee, Ramon G.) Radon survey of the American Water Works System, in Radon, radium, and other radioactivity in ground water—hydrogeologic impact and application to indoor airborne contamination, B. Graves, editor: Chelsea, Michigan, Lewis Publishers, Inc. and Natl. Water Well Assoc. (Proc. of Natl. Water Well Assoc. Conf., April 7-9, 1987, Somerset, New Jersey), p. 311-346, 14 tables, 1 fig.
- Dod, B. D.**
see Sipiera, Becker, and Dod, 1987
- Dod, R. L.**
see Chylek, Srivastava, Cahenzli, Pinnick, and Dod, 1987
- Dohrenwend, John C.**
1987 Basin and Range, in *Geomorphic systems of North America*, W. L. Graf, editor: *Geol. Soc. America, Centennial Special Volume 2*, p. 303-342, 4 tables, 20 figs.
- Dolzani, M.**
1987 Profiles of the past—interview with Vance Haynes: *Mammoth Trumpet*, v. 3, no. 2, p. 4, 8
- Donnan, Gary T.**
1987 Stratigraphy and structural geology of the northern part of the Animas Mountains, Hidalgo County, New Mexico: M.S. thesis, New Mexico State Univ., 121 p., 2 sheets, scale 1:6,000
- Donohue, David R.**
1987 (and Duffy, Christopher J.) Analysis of fluctuations in groundwater levels in a closed desert basin (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 16, p. 323
- Doser, Diane T.**
1987 The 16 August 1931 Valentine, Texas earthquake—evidence for normal faulting in west Texas: *Seismol. Soc. America, Bull.*, v. 77, no. 6, p. 2005-2017, 1 table, 8 figs.
- Drake, R. E.**
see Larson, Patterson, Curtiss, Drake, and Mutschler, 1987
- Dreesen, Donald S.**
1987 (Malzahn, Mark V., Fehler, Michael C., and Dash, Zora V.) Identification of MHF (massive hydraulic fracturing) fracture planes and flow paths—a correlation of well log data with patterns in locations of induced seismicity: *Los Alamos Natl. Lab., Rept. LA-UR-87-2082*, 9 p.; *Natl. Tech. Inf. Serv., Rept. DE87 011 765*; *Geothermal Resources Coun., Trans.*, v. 11, p. 339-348
- 1987** (Miller, J. R., and Nicholson, R. W.) Developing hot dry rock reservoirs with inflatable open hole packers: *Los Alamos Natl. Lab., Rept. LA-UR-87-2083*, 7 p.; *Natl. Tech. Inf. Serv., Rept. DE87 011 764*
see Fehler, Dreesen, and Malzahn, 1987; Murphy, Hendron, Miller, and Dreesen, 1987; and Whetten, Dennis, Dreesen, House, Murphy, Robinson, and Smith, 1987
- Drewes, Harald**
see Richter, Houser, Watts, Klein, Sharp, Drewes, Hedlund, Raines, and Hassemer, 1987
- Drez, P. E.**
see Deal, Case, Deshler, Drez, Myers, and Tyburski, 1987
- Dromgoole, Edward L.**
1987 (and Pasteris, Jill D.) Interpretation of the sulfide assemblages in a suite of xenoliths from Kilbourne Hole, New Mexico, in *Mantle metasomatism and alkaline magmatism*, E. M. Morris and J. D. Pasteris, editors: *Geol. Soc. America, Spec. Paper 215*, p. 25-46, 4 tables, 7 figs.
- Dubiel, Russell F.**
1987a Sedimentology of the Upper Triassic Chinle Formation, southeastern Utah: Ph.D. dissertation, Univ. Colorado (Boulder), 132 p.; *abs. in Dissert. Abs. Internat.*, v. 48, no. 5, p. 1277-B
- 1987b** Sedimentology of the Upper Triassic Chinle Formation, southeastern Utah—paleoclimatic implications: *Arizona-Nevada Acad. Sci., Jour.*, v. 22, no. 1, p. 35-45, 9 figs.
- 1987** (Blodgett, Robert H., and Brown, Thomas M.) Lungfish burrows in the Upper Triassic Chinle and Dolores Formations, Colorado Plateau: *Jour. Sed. Petrology*, v. 57, no. 3, p. 512-521, 1 table, 6 figs.
see Good, Parrish, and Dubiel, 1987
- Du Bray, E. A.**
1987 (and Duffield, Wendell A.) Compositions of feldspar phenocrysts and petrogenetic implications, Taylor Creek Rhyolite, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 272
- Duffield, Wendell A.**
1987a Fire fountains of high-silica rhyolite magma—a tin-rich aerosol? (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 648
- 1987b** Relations between cassiterite-bearing veins and rhyolite lavas, southwestern New Mexico: *U.S. Geol. Survey, Circ.* 995, p. 16-17
- 1987** (Richter, Donald H., and Priest, Susan S.) Preliminary geologic map of the Taylor Creek Rhyolite, Catron and Sierra Counties, New Mexico: *U.S. Geol. Survey, Open-file Rept.* 87-515, 1 sheet, scale 1 inch = approx. 0.8 mi, 2 tables, 5 figs. (1988)
see Du Bray and Duffield, 1987; and Ruiz, Patchett, Reece, and Duffield, 1987
- Dufford, Scott**
1987a (Burdick, Donald G., Garvey, Charles F., Gibson, Wayne R., Grimes, David N., Pausé, Paul H., and Turmelle, Thomas J.) Oil and gas developments in west Texas and eastern New Mexico in 1986: *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 10, pt. B, p. 157-164, 3 tables, 6 figs.
- 1987b** (Burdick, Donald G., Garvey, Charles F., Gibson, Wayne R., Grimes, David N., Pausé, Paul H., and Turmelle, Thomas J.) Significant oil and gas wells in the Permian Basin—1986: *West Texas Geol. Soc., Bull.*, v. 27, no. 1, p. 5-9, 3 tables, 1 fig.
- Duffy, Christopher J.**
see Donohue and Duffy, 1987
- DuMars, Charles T.**
1987 (Rodgers, Ann B., Cummings, Ronald G., and others) State appropriation of unappropriated groundwater—a strategy for insuring New Mexico a water future: *Univ. New Mexico, Natural Resources Center and New Mexico State Univ., Water Resources Research Inst., 2nd report to the Governor of New Mexico*
- Duncker, Katherine E.**
1987 (Wolff, John A., Harmon, R. S., Leat, P. T., Thompson, R. N., and Baldrige, W. Scott) Stable isotope constraints on the petrogenesis of Cerros del Rio magmas (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1532

- 1987 (Wolff, John A., Leat, P. T., and Kyle, Philip R.) Petrology and geochemistry of lavas from the northwest Cerros del Rio (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 26; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 42
- Dungan, Michael A.**
1987 Open system magmatic evolution of the Taos Plateau volcanic field, northern New Mexico, II—the genesis of cryptic hybrids: *Jour. Petrology*, v. 28, no. 5, p. 955–977, 2 tables, 8 figs.
- Duplancic, N.**
see Chakrabarti, Patrick, and Duplancic, 1987
- Dutrow, B. L.**
see Holdaway, Geving, Goodge, Dickerson, and Dutrow, 1987
- Dutton, Alan R.**
1987a Geomorphologic and climatic controls on aquifer recharge beneath the southern Great Plains, Texas and New Mexico (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1270
1987b Origin of brine in the San Andres Formation, evaporite confining system, Texas panhandle and eastern New Mexico: *Geol. Soc. America, Bull.*, v. 99, no. 1, p. 103–112, 3 tables, 8 figs.
- Duval, Thomas A.**
see Mattick, Duval, and Phillips, 1987
- Dyer, Russ**
1987 (Chavez–Quirarte, Ramon, and Guthrie, Robert S.) Mesozoic evolution of Trans-Pecos Texas and Chihuahua tectonic belt (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 650
see Handschy and Dyer, 1987
- Earl, R. A.**
see Monger, Daugherty, McCurry, and Earl, 1987
- Earth Technology Corporation**
1987 Final report for time domain electromagnetic (TDEM) surveys at the WIPP: Earth Tech. Corp., rept. prepared for Sandia Natl. Lab., Rept. SAND87–7144, 35 p., 26 figs. (1988)
- Eaton, Gordon P.**
1987 Topography and origin of the southern Rocky Mountains and Alvarado ridge, in *Continental extensional tectonics*, M. P. Coward, J. F. Dewey, and P. L. Hancock, editors: Published for Geol. Soc. London by Blackwell Scientific Publications, Spec. Publ. 28, p. 355–369
- Eberth, David A.**
1987 Stratigraphy, sedimentology, and paleoecology of Cutler Formation red beds (Permo–Pennsylvanian) in north-central New Mexico: Ph.D. dissertation, Univ. Toronto, 264 p.; *abs. in* *Dissert. Abs. Internat.*, 1988, v. 48, no. 11, p. 3228–B
see Berman, Reisz, and Eberth, 1987a,b
- Edwards, C. L.**
see Schlue, Hostettler, and Edwards, 1987
- Egemeier, Stephen J.**
1987 A theory for the origin of Carlsbad Caverns: *Natl. Speleological Soc., Bull.*, v. 49, no. 2, p. 73–76, 2 figs.
- Eggleston, Ted L.**
1987 The Taylor Creek district, New Mexico—geology, petrology, and tin deposits: Ph.D. dissertation, New Mexico Inst. Mining and Tech., 473 p.
1987a (and Norman, David I.) A new Rb/Sr isochron date for the Hells Mesa Tuff, Socorro County, New Mexico: *Isochron/West*, no. 48, p. 21–22, 1 table, 2 figs.
1987b (and Norman, David I.) Glass-bearing inclusions in cassiterite, topaz, and quartz—Taylor Creek tin district, New Mexico (abs.): *Am. Current Research on Fluid Inclusions (ACROFI) mtg.*, Socorro, New Mexico, January 5–7, 1987, Program and Abs., unpaginated
1987c (and Norman, David I.) New isotopic dates for the Taylor Creek Rhyolite and associated rocks in the Black Range of New Mexico: *Isochron/West*, no. 48, p. 23–25, 1 table, 2 figs.
- Eiceman, Gary A.**
1987 Hazardous organic wastes from natural gas products processing and distribution—environmental fates: New Mexico State Univ., Water Resources Research Inst., Rept. 227, 98 p.; *Natl. Tech. Inf. Serv., Rept. PB89 113 948*
- Eidson, M.**
see Gallaher, McQuillan, Chavez, Hull, and Eidson, 1987
- Elder, William P.**
1987a Molluscan paleoecology of the Cenomanian–Turonian extinction boundary in the southern Colorado Plateau (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 654
1987b The Cenomanian–Turonian (Cretaceous) Stage boundary extinctions in the Western Interior of the United States: Ph.D. dissertation, Univ. Colorado, 621 p.; *abs. in* *Dissert. Abs. Internat.*, v. 45, no. 5, p. 1285–B
- Elias, Scott A.**
1987a Colorado ground beetles (Coleoptera: Carabidae) from the Rotger collection, University of Colorado Museum, Boulder, Colorado: *Great Basin Naturalist*, v. 47, no. 4, p. 631–637
1987b Paleoenvironmental significance of late Quaternary insect fossils from packrat middens in south-central New Mexico: *Southwestern Naturalist*, v. 32, no. 3, p. 383–390
- Ellingson, David**
1987 Phelps Dodge has something to smile about: *Eng. and Mining Jour.*, v. 188, no. 8, p. 24–32, 8 figs.
- Elmore, D.**
see Leavy, Phillips, Elmore, Kubik, and Gladney, 1987; and Leavy, Phillips, Smith, Jannik, Elmore, and Kubik, 1987
- Elston, Wolfgang E.**
1987a Magma evolution in a mid-Tertiary extensional orogen, New Mexico and Colorado (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 273
1987b Problems of Bloodgood Canyon Tuff (Oligocene, Mogollon–Datil volcanic field, southwestern New Mexico)—a review (abs.): *New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs*, p. 30; *abs. also in* *New Mexico Geology*, 1988, v. 10, no. 2, p. 43
1987 (and Abitz, Richard J.) Characterization of non-basaltic post-40 Ma magmatic-tectonic provinces of southwestern North America by potassium contents (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 655
1987 (Seager, William R., and Abitz, Richard J.) The Emory resurgent ash-flow tuff (ignimbrite) cauldron of Oligocene age, Black Range, southwestern New Mexico, in *Rocky Mountain Section of the Geological Society of America*, S. S. Beus, editor: *Geol. Soc. America, Centennial Field Guide*, v. 2, p. 441–445, 3 figs.
1987 (and Wohletz, Kenneth H.) Quaternary basalt fields of west-central New Mexico—McCarty's pahoehoe flow, Zuni Canyon aa flow, Zuni ice cave, Bandera crater and Zuni Salt Lake maar, in *Rocky Mountain Section of the Geological Society of America*, S. S. Beus, editor: *Geol. Soc. America, Centennial Field Guide*, v. 2, p. 431–436, 7 figs.
see Seaman and Elston, 1987
- Ely, Richard W.**
see Wong, Humphrey, and Ely, 1987

Emslie, Steven D.

1987 The origin, evolution and extinction of condors in the New World: Ph.D. dissertation, Univ. Florida, 183 p.; *abs. in* Dissert. Abs. Internat., 1989, v. 49, no. 8, p. 3074-B

Enick, Robert M.

1987 (Holder, Gerald D., and Mohamed, Rahoma) Four-phase flash equilibrium calculations using the Peng-Robinson equation of state and a mixing rule for asymmetric systems: SPE Reservoir Engineering, v. 2, no. 4, p. 687-694, 3 tables, 6 figs.

Erickson, Wayne R.

1987 (Johnson, Stephen L., Klingler, John C., Wildman, Nancy A., and Wilson, John) McKinley mine, in Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 55-58

Eriksson, K. A.

see Gibson, Harris, Eriksson, and Simpson, 1987

Erwin, Douglas H.

1987 Speciation patterns in Permian *Glyptospira* (Gastropoda) (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 656

Etchieson, M.

1987 Limited testing at LA854, Doña Ana County, New Mexico: U.S. Bureau Reclamation, rept., 16 p., 1 table, 11 figs.; *abs. in* Sel. Water Resources Abs., 1988, v. 21, no. 8, p. 139

Ethridge, Frank C.

1987 (Flores, Romeo M., and Harvey, Michael D., editors) Recent developments in fluvial sedimentology: Soc. Econ. Paleontologists and Mineralogists, Spec. Publ. 39, 389 p.

Evans, Karl V.

1987 (and Clemons, Russell E.) U-Pb geochronology of the Florida Mountains, New Mexico—new evidence for latest Cambrian—earliest Ordovician alkalic plutonism (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 657-658

Evans, William D.

see Shevenell, Goff, Vuataz, Trujillo, Counce, Janik, and Evans, 1987

Eveleth, Robert W.

1987a Exploration 1986—New Mexico: Mining Engineering, v. 39, no. 5, p. 336-337

1987b Exploration roundup in New Mexico during 1986: New Mexico Geology, v. 9, no. 3, p. 63

1987c New Mexico's extractive minerals industries—a three-year summary: New Mexico Geology, v. 9, no. 4, p. 87, 1 table

see Burgin and Eveleth, 1987

Eyde, D. T.

1987 (and Eyde, Ted H.) Geology and mining of the Cheto bentonite deposit, Apache County, Arizona, in Zeolite '87—an excursion to selected zeolite and clay deposits in southwestern New Mexico and eastern Arizona, F. A. Mumpton, editor: Internat. Comm. Nat. Zeolites, Brockport, New York, p. 47-54

Eyde, Ted H.

see Eyde and Eyde, 1987; and Sheppard, Eyde, and Barclay, 1987

Fairer, George M.

see Mercer, Beauheim, Snyder, and Fairer, 1987

Fall, Patricia L.

1987 Pollen taphonomy in a canyon stream: Quaternary Research, v. 28, no. 3, p. 393-406, 2 tables, 7 figs.

Fallin, J. A. Tony

1987 Hydrogeology of Lower Cretaceous strata under

the southern High Plains of Texas and New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 659

Fararro, John

see LeMone, Sandidge, Fararro, Kiely, Bullock, and Sivils, 1987a,b

Fassett, James E.

1987a Geometry and depositional environments of Fruitland Formation coal beds, San Juan Basin, New Mexico and Colorado—anatomy of a giant coal-bed methane deposit: Gas Research Inst., Univ. Alabama and U.S. Dept. Labor, Coalbed Methane Symp., Tuscaloosa, Alabama, November 16-19, 1987, Proc., p. 19-35

1987b Is it possible to identify eustatic sea-level-change events in the Upper Cretaceous rocks of the San Juan Basin, New Mexico and Colorado? (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 659

1987c The ages of the continental, Upper Cretaceous Fruitland Formation and Kirtland Shale based on a projection of ammonite zones from the Lewis Shale, San Juan Basin, New Mexico and Colorado, in The Cretaceous-Tertiary boundary in the San Juan and Raton Basins, New Mexico and Colorado, J. E. Fassett and J. K. Rigby, Jr., editors: Geol. Soc. America, Spec. Paper 209, p. 5-16, 2 tables, 7 figs.

1987 (Lucas, Spencer G., and O'Neill, F. Michael) Dinosaurs, pollen and spores, and the age of the Ojo Alamo Sandstone, San Juan Basin, New Mexico, in The Cretaceous-Tertiary boundary in the San Juan and Raton Basins, New Mexico and Colorado, J. E. Fassett and J. K. Rigby, Jr., editors: Geol. Soc. America, Spec. Paper 209, p. 17-34, 15 figs.

1987 (and Rigby, J. Keith, Jr., editors) The Cretaceous-Tertiary boundary in the San Juan and Raton Basins, New Mexico and Colorado: Geol. Soc. America, Spec. Paper 209, 200 p.

Feder, Allen M.

see Pyron and Feder, 1987

Fedosejevs, G.

see Teillet, Slater, Jackson, Fedosejevs, and Moran, 1987

Fehler, Michael C.

1987a New method for determining dominant fluid flow paths during hydraulic fracturing: Los Alamos Natl. Lab., Rept. LA-UR-87-115, 5 p.; *also in* Geothermal program review, Washington, D.C.: U.S. Dept. Energy, Proc., v. 5, p. 153-156

1987b New method for determining fluid flow paths during hydraulic fracturing: Los Alamos Natl. Lab., Rept. LA-UR-87-0878, 6 p.

1987c Stress control of seismicity patterns observed during hydraulic fracturing experiments at the Fenton Hill hot dry rock geothermal energy site, New Mexico: Los Alamos Natl. Lab., Rept. LA-UR-87-1223, 22 p.; Natl. Tech. Inf. Serv., Rept. DE87 008 992

1987 (Dreesen, Don, and Malzahn, Mark) A model of the Fenton Hill reservoir based on locations of induced microseismic events (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 44, p. 1346

1987 (House, Leigh S., and Kaidea, Hideshi) Determining planes along which earthquakes occur—method and application to fracturing: Jour. Geophys. Research, v. 92, no. B9, p. 9407-9414

see Dreesen, Malzahn, Fehler, and Dash, 1987; Potter, R. M., and Fehler, 1987; and Roberts, Aki, and Fehler, 1987

Fekete, Thomas E.

see Franseen, Pray, and Fekete, 1987

Felch, Roger N.

1987 A study of the seismic crustal structure in the Valles caldera region of northern New Mexico: Ph.D. dis-

- sertation, Pennsylvania State Univ., 271 p.; *abs. in* *Dissert. Abs. Internat.*, 1988, v. 48, no. 10, p. 2905-B
- Felicetti, S.**
see Millard, Pei, Felicetti, Gray, Thompson, and Phelan, 1987
- Ferenbaugh, Roger W.**
see Purtymun, Ferenbaugh, Becker, Williams, and Maes, 1987
- Fernandez, Ricardo**
see Jiracek, Martinez, Rodriguez, Romo, and Fernandez, 1987; and Rodriguez, Martinez, Fernandez, Romo, and Jiracek, 1987
- Fields, R. W.**
see Tedford, Skinner, Fields, Rensberger, Whistler, Galusha, Taylor, Macdonald, and Webb, 1987
- Figuers, Sands H.**
1987 Structural geology and geophysics of the Pipeline complex, northern Franklin Mountains, El Paso, Texas: Ph.D. dissertation, Univ. Texas (El Paso), 278 p., 11 tables, 57 figs., 5 sheets, scale 1 inch = approx. 500 ft
- Finfinger, Gerald L.**
see Kravits, Sainato, and Finfinger, 1987
- Fink, Jonathan H.**
see Manley, C. S., and Fink, 1987
- Finkelman, Robert B.**
see Coleman, Finkelman, and Bragg, 1987
- Finnell, Tommy L.**
1987 Geologic map of the Cliff quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Misc. Inv. Series, Map I-1768, 1 sheet, scale 1:50,000
- Fisher, N. T.**
see Banz, Bradshaw, Cockman, Fisher, Prince, Rodriguez, and Uhland, 1987
- Fisher, R. Stephen**
1987 Results of analyses of the amount of bromide in halite, Palo Duro Basin, Texas panhandle uninterpreted data: Univ. Texas (Austin), Bureau Econ. Geology, Open-file Rept. WTWI-1987-1
1987 (and Hovorka, Susan D.) Relations between bromide content and depositional processes in bedded halite, Permian San Andres Formation, Palo Duro Basin, Texas: *Carbonates and Evaporites*, v. 2, p. 67-82
see Knauth, Hovorka, and Fisher, 1987
- Fishman, Neil S.**
1987 (Turner-Peterson, Christine E., and Owen, Douglas E.) Early diagenetic formation of illite—implications for clay geothermometry (abs.): *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 5, p. 556-557
see Turner-Peterson, Fishman, and Owen, 1987
- Fitzpatrick, Joan J.**
see Foord, Hlava, Fitzpatrick, and Maxwell, 1987
- Fleming, R. Farley**
1987 Paleoenvironmental significance of fossil chlorococcalean algae from the Raton Formation, Colorado and New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 275
- Flores, Romeo M.**
1987 Sedimentology of Upper Cretaceous and Tertiary siliciclastics and coals in the Raton Basin, New Mexico and Colorado, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 255-264, 17 figs.
1987 (and Pillmore, Charles L.) Tectonic control on alluvial paleoarchitecture of the Cretaceous and Tertiary Raton Basin, Colorado and New Mexico, in *Recent developments in fluvial sedimentology*, F. C. Ethridge, R. M. Flores, and M. D. Harvey, editors: *Soc. Econ. Paleontologists and Mineralogists, Spec. Publ.* 39, p. 311-320, 9 figs.
see Ethridge, Flores, and Harvey, 1987; Franczyk, Flores, and Carr, 1987; and Pillmore and Flores, 1987
- Flynn, J. J.**
see Krishtalka, West, Black, Dawson, Flynn, Turnbull, Stucky, McKenna, Bown, Golz, and Lillegraven, 1987
- Foerster, H.**
1987 Uplift of metamorphic cores and detachment planes in extension zones (abs.): *Terra Cognita*, v. 7, no. 1, p. 57
- Fogg, Graham E.**
1987 (and Lucia, F. J.) The role of geologic information in aquifer description—comparison of two case studies (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 16, p. 299
see Senger and Fogg, 1987; and Senger, Kreitler, and Fogg, 1987
- Fonteyn, Paul J.**
see Schlesinger, Fonteyn, and Marion, 1987
- Foord, Eugene E.**
1987 (Hlava, Paul F., Fitzpatrick, Joan J., and Maxwell, Charles H.) Three new minerals from Squaw Creek, stoltzite from Nugget Gulch, and tilasite from Willow Springs Draw, Black Range tin district, New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Mineral Symp.; abs. also in New Mexico Geology*, 1988, v. 10, no. 1, p. 19, 22
see Bohor, Modreski, and Foord, 1987
- Forester, Richard M.**
1987 Late Quaternary paleoclimate records from lacustrine ostracodes, in *North America and adjacent oceans during the last deglaciation*, W. F. Ruddiman and H. E. Wright, Jr., editors: *Geol. Soc. America, The Geology of North America*, v. K-3, p. 261-276, 11 figs.
- Foxx, Teralene S.**
see Wenzel, Foxx, Gallegos, Tierney, and Rodgers, 1987
- Fracasso, Michael A.**
1987a Braincase of *Limnoscelis paludis* Williston: *Postilla*, v. 201, p. 1-22
1987b Fluvial deposition and paleoenvironment of the Cutler Formation red beds, El Cobre Canyon, New Mexico: *New Mexico Geology*, v. 9, no. 1, p. 14-18, 8 figs.
1987 (and Hovorka, Susan D.) First occurrence of a phylloidont tooth plate (Osteichthyes, Platysomidae) from the Permian San Andres Formation, subsurface, Texas panhandle: *Jour. Paleontology*, v. 61, no. 2, p. 375-379, 3 figs.
- Franczyk, Karen J.**
1987 (Flores, Romeo M., and Carr, David A.) Implications of Late Cretaceous depositional sequences in northeastern Arizona and northwestern New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 667
- Franke, Paul R., Jr.**
see Brown, D. W., Franke, Smith, and Wilson, 1987
- Franklin, R. R.**
1987 (Self, Stephen A., and Wolff, John A.) Lava-like tuffs of Trans-Pecos Texas—the Star Mountain Formation (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1544
- Franklin, Stanley P.**
1987 Diagenesis of the Dakota Sandstone, West Lindrieth field, Rio Arriba County, New Mexico: M.S. thesis, Texas A&M Univ., 126 p.
- Franseen, Evan K.**
1987 (Pray, Lloyd C., and Fekete, Thomas E.) Mid-Permian shelf margin erosion surfaces, western escarpment, Guadalupe Mountains, Texas (abs.): *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 5, p. 557
- Freethy, Geoffrey W.**
1987 Upper Colorado River basin regional aquifer-sys-

- tems analysis—Mesozoic rocks in Colorado, Utah, Wyoming, Arizona, and New Mexico, *in* Regional aquifer systems of the United States—aquifers of the western mountain area, J. S. McLean and A. I. Johnson, editors: Am. Water Resources Assoc., Monograph Ser., no. 14, p. 57–70
- Freeze, G. A.**
see Saulnier, Freeze, and Stensrud, 1987
- Frelief, A. P.**
1987 Sedimentology, fluvial paleohydrology, and paleomorphology of the Dockum Formation (Triassic), west Texas: M.S. thesis, Texas Tech Univ., 198 p.
- Friedman, Gerald M.**
see Lee, Y. I., and Friedman, 1987; and Melas and Friedman, 1987
- Friedman, Samuel A.**
1987 (Jones, Richard W., Treworgy, Colin G., and Smith, Carl J.) Developments in coal in 1986: Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 10, pt. B, p. 364–373, 4 tables, 3 figs.
- Fulp, Michael S.**
1987 Proterozoic tungsten mineralization in the southern Sangre de Cristo Mountains, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 670
1987 (and Woodward, Lee A.) Geology and mineralization at the Milagros gold deposit, Manzano Mountains, central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 670
see Robertson and Fulp, 1987
- Gabelman, Joan L.**
1987 (Robertson, J. M., and McLemore, Virginia T., compilers) Road log from Albuquerque to Taos via I-25, US-285, and NM-68 (USGS Cluster Meeting, November 3–6, 1987): New Mexico Bureau Mines Mineral Resources, Open-file Rept. 337, 42 p., 10 figs.
- Gallaher, Bruce M.**
1987 (and Keller, Natalie) Ground-water quality in the Albuquerque South Valley—raw data and statistical summary: New Mexico Health and Environ. Dept., Environ. Improvement Div., Ground Water/Hazardous Waste Bureau, Rept. EID/GWB-87/1
1987 (McQuillan, Dennis M., Chavez, L. D., Hull, H. F., and Eidson, M.) Ground-water quality and public health, Albuquerque South Valley: New Mexico Health and Environ. Dept., Environ. Improvement Div., Ground Water/Hazardous Waste Bureau, Rept. EID/GWH-87/1, 240 p.
- Gallegos, Anthony F.**
see Wenzel, Foxx, Gallegos, Tierney, and Rodgers, 1987
- Galusha, T.**
see Tedford, Skinner, Fields, Rensberger, Whistler, Galusha, Taylor, Macdonald, and Webb, 1987
- Ganju, Ashutosh M.**
1987 Development of a portable seismic reflection data processing package and its application to data collected from the Jemez Mountains of New Mexico: M.S. thesis, Purdue Univ., 91 p.
- Gans, Phillip G.**
1987 (Mahood, Gail, and Schermer, Elizabeth) Synextensional magmatism in the Basin and Range province—a case study from the eastern Great Basin (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 671
- Gardner, Jamie N.**
1987 Neotectonic activity along the Pajarito fault system, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 277
1987 (Goff, Fraser, Goff, Sue, Maassen, Larry W., Mathews, K., Wachs, Daniel, and Wilson, D.) Core lithology, Valles caldera no. 1, New Mexico: Los Alamos Natl. Lab., Rept. LA-10957-OBES, 273 p.; Natl. Tech. Inf. Serv., Rept. DE87 010 831
1987 (and House, Leigh S.) Seismic hazards investigations at Los Alamos National Laboratory, 1984 to 1985: Los Alamos Natl. Lab., Rept. LA-11072-MS, 76 p., 4 tables, 11 figs., 1 appendix, 12 sheets, scale 1:62,500
see Balsley, Wolff, Kuentz, Kyle, and Gardner, 1987; Goff and Gardner, 1987; Goff, Gardner, Shevenell, and Rowley, 1987; Goff, Nielson, Gardner, Hulen, Lysne, Shevenell, and Rowley, 1987; Goff, Nielson, Gardner, and Hulen, 1987; Goff, Shevenell, and Gardner, 1987; Hulen, Nielson, Goff, and Gardner, 1987; Hulen, Nielson, Goff, Gardner, and Charles, 1987; Rowley, Hawkins, and Gardner, 1987; Self, Gardner, and Goff, 1987; Spell, Kyle, and Gardner, 1987; and Wolff, Self, Kyle, and Gardner, 1987
- Gardner, Thomas W.**
see Connors, Gardner, and Petersen, 1987; and Petersen, Connors, Miller, Day, and Gardner, 1987
- Garn, Herbert S.**
1987 Establishment of a federal reserved water right for a New Mexico wild and scenic river, *in* Managing the river—proceedings of the thirty-first annual New Mexico water conference, L. G. Harris, editor: New Mexico State Univ., Water Resources Research Inst., Rept. WRR-219, p. 112–123, 1 table, 3 figs.
- Garvey, Charles F.**
see Dufford, Burdick, Garvey, Gibson, Grimes, Pausé, and Turmelle, 1987a,b
- Gawloski, Ted F.**
1987 Nature, distribution, and petroleum potential of Bone Spring detrital sediments along the Northwest shelf of the Delaware Basin, *in* The Leonardian facies in west Texas and SE New Mexico and guidebook to the Glass Mountains, west Texas, D. Cromwell and L. J. Mazzullo, editors: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Publ. 87–27, p. 85–105
- Geary, Dana H.**
1987 Evolutionary tempo and mode in a sequence of the Upper Cretaceous bivalve Pleurocardia: Paleobiology, v. 13, no. 2, p. 140–151, 1 table
- Gebert, Warren A.**
1987 (Graczyk, David J., and Krug, William R.) Average annual runoff in the United States, 1951–80: U.S. Geol. Survey, Hydrol. Inv. Atlas HA-710, 1 sheet, scale 1:7,500,000
- Geissman, John W.**
1987 Thermoviscous/thermochemical partial remagnetization of late Paleozoic strata, VC-1 corehole, Valles caldera, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 44, p. 1250
- Gelden, A. L.**
1987 Ground water hydrology of the central Raton Basin, Colorado and New Mexico: U.S. Geol. Survey, Water-supply Paper 2288, 81 p.
- GeoChem Laboratories, Inc.**
1987a Hydrocarbon source-rock analyses, Houston Oil and Minerals No. 14–28 Federal well, Torrance County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 280, 7 p., 3 tables
1987b Organic geochemical analyses, Gardner No. 1 Kidwell well, Torrance County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 278, 4 p., 1 table
1987c Organic geochemical analyses, Lea No. 1 Milburn well, Torrance County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 279, 3 p., 1 table
1987d Organic geochemical analyses, Olsen No. 1 Means well, Torrance County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 277, 4 p., 1 table
1987e Organic geochemical analyses, Superior Oil Co.

- No. 1 Blackwell well, Torrance County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 276, 3 p., 1 table
- 1987** (and Chevron USA, Inc.) Hydrocarbon source-rock analyses, Amoco Production Co. No. 1 Baker well, Quay County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 273, 18 p., 5 tables, 5 figs., 2 pls.
- 1987** (and Core Laboratories, Inc.) Organic geochemical analyses, Sunray Mid-Continent Oil Co. No. 1 Briscoe well, Quay County, New Mexico: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 275, 15 p., 4 tables, 15 figs.
- see Brown and Ruth Laboratories, Inc., GeoChem Laboratories, Inc., and Precision Service, Inc., 1987
- Geving, R. L.**
see Holdaway, Geving, Goodge, Dickerson, and Dutton, 1987
- Ghazi, A. M.**
1987 (and Wampler, J. M.) Potassium-argon dates of clays from brecciated and hydrothermally altered rocks from VC-1, Valles caldera, New Mexico (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1515
- Gibbens, R. P.**
see Herbel and Gibbens, 1987
- Gibson, R. G.**
1987 (Harris, C. W., Eriksson, K. A., and Simpson, C.) Regional implications of Proterozoic deformation and lithostratigraphy in the Needle Mountains, Colorado (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 675
- Gibson, Wayne R.**
see Dufford, Burdick, Garvey, Gibson, Grimes, Pausé, and Turmelle, 1987a,b
- Gile, Leland H.**
1987a A pedogenic chronology for Kilbourne Hole, southern New Mexico—I, soils in the tuff: *Soil Sci. Soc. America, Jour.*, v. 51, no. 3, p. 746–751, 5 figs.
1987b A pedogenic chronology for Kilbourne Hole, southern New Mexico—II, time of the explosions and soil events before the explosions: *Soil Sci. Soc. America, Jour.*, v. 51, no. 3, p. 752–760, 3 tables, 4 figs.
1987c Late Holocene displacement along the Organ Mountains fault in southern New Mexico: *New Mexico Bureau Mines Mineral Resources, Circ.* 196, 43 p., 8 tables, 24 figs.
- Giles, David L.**
1987 Proterozoic framework and metallogeny—southern Rocky Mountain province of Colorado and New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 676
- Gillespie, B. Marcus**
see Marston, Gillespie, von Finger, and Nickling, 1987
- Gillette, David D.**
1987a A giant sauropod from the Jackpile Sandstone Member of the Morrison Formation (Upper Jurassic) of New Mexico (abs.): *Jour. Vertebrate Paleontology*, v. 7, supplement to no. 3, p. 16A–17A
1987b The age of transition—Coelophysis and the Late Triassic Chinle fauna, in *Dinosaurs past and present—Volume 1*, S. J. Czerkas and E. C. Olson, editors: *Natural History Museum, Los Angeles, California, and Seattle, Univ. Washington Press*, p. 133–152
see Hill and Gillette, 1987
- Gilmore, James S.**
see Orth, Gilmore, and Knight, 1987
- Gingerich, P. O.**
see Archibald, Gingerich, Lindsay, Clemens, Krause, and Rose, 1987
- Gladney, Ernest S.**
see Leavy, Phillips, Elmore, Kubik, and Gladney, 1987
- Goebel, Kurt**
1987 (and Bachhuber, Frederick W.) Relict earthflow features in the Estancia Valley, central New Mexico—a geomorphic response to climatic change (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 677–678
- Goetz, Carole L.**
1987 Portable field-chamber measurement of evapotranspiration and comparison to Bowen-ratio, energy-balance measurement of evapotranspiration rate (abs.): *Am. Geophys. Union, Ann. Mtg.*, San Francisco, California, December 6–11, 1987, Proc.
1987 (and Abeyta, Cynthia G.) Adequacy of NASQAN data to describe areal and temporal variability of water quality of the San Juan River drainage basin upstream from Shiprock, New Mexico: *U.S. Geol. Survey, Water-resources Inv., Rept.* 85–4043, 89 p.
- 1987** (Abeyta, Cynthia G., and Thomas, Edward V.) Application of techniques to identify coal-mine and power-generation effects on surface-water quality, San Juan River basin, New Mexico and Colorado: *U.S. Geol. Survey, Water-resources Inv., Rept.* 86–4076, 80 p., 12 tables, 34 figs.
- Goff, Fraser**
1987 (and Gardner, Jamie N.) Jemez volcanics cored in second D.O.E. hole: *Geotimes*, v. 32, no. 3, p. 11–12, 2 figs.
1987 (Gardner, Jamie N., Shevenell, Lisa A., and Rowley, John C.) Preliminary results of CSDP core hole VC-2A, Sulphur Springs, Valles caldera, New Mexico (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 16, p. 469
1987 (Nielson, Dennis L., Gardner, Jamie N., and Hulén, Jeffrey B.) Continental scientific drilling into an active caldera—Valles caldera, New Mexico, USA (abs.): *Internat. Union of Geodesy and Geophysics, General Assembly XIX*, v. 2, p. 411
1987 (Nielson, Dennis L., Gardner, Jamie N., Hulén, Jeffrey B., Lysne, P., Shevenell, Lisa A., and Rowley, John C.) Scientific drilling at Sulphur Springs, Valles caldera, New Mexico—core hole VC-2A: *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 30, p. 649, 661–662
1987 (and Shevenell, Lisa A.) Travertine deposits of Soda Dam, New Mexico, and their implications for the age and evolution of the Valles caldera hydrothermal system: *Geol. Soc. America, Bull.*, v. 99, no. 2, p. 292–302, 2 tables, 5 figs.
1987 (Shevenell, Lisa A., and Gardner, Jamie N.) Late Quaternary evolution of San Diego Canyon, Valles caldera region, New Mexico—possible paleoclimatic association (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 678
see Gardner, Goff, Goff, Maassen, Mathews, Wachs, and Wilson, 1987; Hulén, Nielson, Goff, and Gardner, 1987; Hulén, Nielson, Goff, Gardner, and Charles, 1987; Janecky, Charles, and Goff, 1987; Self, Gardner, and Goff, 1987; Shevenell, Goff, Vuataz, Trujillo, Counce, Janik, and Evans, 1987; and Trujillo, Counce, Grigsby, Goff, and Shevenell, 1987
- Goff, Sue**
see Gardner, Goff, Goff, Maassen, Mathews, Wachs, and Wilson, 1987
- Gold, Robert L.**
see Beal and Gold, 1987
- Goldstein, Peter**
see Archuleta and Goldstein, 1987
- Golz, D. J.**
see Krishtalka, West, Black, Dawson, Flynn, Turnbull, Stucky, McKenna, Bown, Golz, and Lillegraven, 1987
- Gonzalez, Christine M.**
1987 (and McKibben, Michael A.) Thermal history of

- vein mineralization in CSDP core hole VC-2A, Sulphur Springs, Valles caldera, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 679
- Gonzalez, L. A.**
see Zempolich, Hurley, and Gonzalez, 1987
- Good, Steven C.**
1987 (Parrish, J. M., and Dubiel, Russell F.) Environmental implications of vertebrate and molluscan assemblages of the Upper Triassic Chinle Formation (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 278
- Goodell, Philip C.**
see Lueth, Goodell, Llavona, Mertig, and Sharp, 1987
- Goodge, J. W.**
see Holdaway, Geving, Goodge, Dickerson, and Duntrow, 1987
- Goodrich, Cyrena A.**
1987 (Keil, Klaus, Berkley, John L., Laul, J. C., Smith, M. R., Wacker, John F., Clayton, Robert N., and Mayeda, Toshiko K.) Roosevelt County 027—a low-shock ureilite with interstitial silicates and high noble gas concentrations: *Meteoritics*, v. 22, no. 3, p. 191–218, 9 tables, 8 figs.
- Gottfried, Michael D.**
1987a A new long-snouted actinopterygian fish from the Pennsylvanian of north-central New Mexico: *New Mexico Jour. Sci.*, v. 27, no. 1, p. 7–19, 7 figs.
1987b A Pennsylvanian aeduelliform (*Osteichthyes*, *Actinopterygii*) from North America, with comments on aeduelliform interrelationships: *Paläontologische Zeitschrift*, v. 61, nos. 1/2, p. 141–148
- Graczyk, David J.**
see Gebert, Graczyk, and Krug, 1987
- Graf, William L.**
1987 (editor) *Geomorphic systems of North America*: *Geol. Soc. America, Centennial Special Volume 2*, 643 p.
1987 (Hereford, Richard, Laity, Julie, and Young, Richard A.) Colorado Plateau, in *Geomorphic systems of North America*, W. L. Graf, editor: *Geol. Soc. America, Centennial Special Volume 2*, p. 259–302, 23 figs.
- Graham, Mary Ann**
see Graham, Semken, and Graham, 1987
- Graham, Russell W.**
1987 (and Mead, Jim I.) Environmental fluctuations and evolution of mammalian faunas during the last deglaciation in North America, in *North America and adjacent oceans during the last deglaciation*, W. F. Ruddiman and H. E. Wright, Jr., editors: *Geol. Soc. America, The Geology of North America*, v. K-3, p. 371–402, 7 tables, 11 figs., 1 appendix
1987 (Semken, Holmes A., Jr., and Graham, Mary Ann, editors) Late Quaternary mammalian biogeography and environments of the Great Plains and prairies: *Illinois State Museum, Illinois State Museum Scientific Papers*, 491 p.
- Grambling, Jeffrey A.**
1987 (and Ward, David B.) Thrusting of the Pecos greenstone belt over younger supracrustal rocks, Rio Mora area, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 278
1987 (and Williams, Michael L.) Manganese and the appearance of an "extra" AFM phase in low-variance, 500°C rocks at Pecos Baldy, NM (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 681
see Williams, M. L., and Grambling, 1987a,b
- Gramont, Bertrand**
1987 Carbonate sedimentology of the Virgilian part of the Horquilla Formation, Big Hatchet Peak area, Hidalgo County, NM: M.S. thesis, New Mexico Inst. Mining and Tech., 222 p.
- Grams, John C.**
see Hemming, Meyers, and Grams, 1987
- Granata, George E.**
see Johns and Granata, 1987
- Grant, P. R.**
see Woodward and Grant, 1987
- Grauch, V. J. S.**
see Leibold, Saltus, Grauch, Lindsey, and Almquist, 1987
- Graves, Barbara**
1987 (editor) Radon, radium, and other radioactivity in ground water—hydrogeologic impact and application to indoor airborne contamination: Chelsea, Michigan, Lewis Publishers, Inc. and Natl. Water Well Assoc. (Proc. of Natl. Water Well Assoc. Conf., April 7–9, 1987, Somerset, New Jersey), 546 p.
- Gray, C.**
see Millard, Pei, Felicetti, Gray, Thompson, and Phelan, 1987
- Greenberg, Marcie A.**
1987 Large-scale combustion test of Fence Lake coal at the Coronado Generating Station, in *Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico*, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: *New Mexico Bureau Mines Mineral Resources, Bull. 121*, p. 79–83, 2 tables, 1 fig.
- Greer, Catherine B.**
1987 A stratigraphic and petrographic analysis of the "Abo" Formation in the Santa Rita, New Mexico area: M.S. thesis, Stephen F. Austin State Univ., 95 p.
1987 (and Vincent, Jerry W.) Stratigraphic relationships of the Abo Formation in the Santa Rita, New Mexico area (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 3, p. 152
- Gregory, Daniel I.**
1987 (and Schumm, Stanley A.) The effect of active tectonics on alluvial river morphology, in *River channels—environment and process*, K. A. Richards, editor: *Inst. British Geographers, Spec. Publ. 18*, p. 41–68
- Grigsby, Charles O.**
see Trujillo, Counce, Grigsby, Goff, and Shevenell, 1987
- Grimes, David N.**
see Dufford, Burdick, Garvey, Gibson, Grimes, Pausé, and Turmelle, 1987a,b
- Gross, Richard S.**
1987 Simultaneous determination of earthquake locations, station corrections, layer thicknesses and velocities—application to northern New Mexico (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1374
- Gude, Arthur J., III**
see Sheppard and Gude, 1987
- Gustafson, Edward P.**
1987 Three-dimensional magnetotelluric response of the Rio Grande rift near Socorro, New Mexico: M.S. thesis, San Diego State Univ., 183 p.
- Gustavson, Thomas C.**
1987 (and Winkler, Dale A.) Depositional environments of the Miocene–Pliocene Ogallala Formation, Texas panhandle and eastern New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 687
- Guthrie, Robert S.**
see Dyer, Chavez–Quirarte, and Guthrie, 1987
- Gutjahr, Allan**
see Love, D. W., Gutjahr, and Robinson–Cook, 1987
- Gutschick, Raymond**
1987 Arid land studies of E. D. McKee (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 688–689
- Guzzetti, Fausto**
1987 (and Brabb, Earl E.) Map showing landslide deposits in northwestern New Mexico: U.S. Geol. Survey, Open-file Rept. 87–0070, scale 1:500,000

Hafenfeld, Stan R.

see Anderson, O. J., and Hafenfeld, 1987a,b

Halley, Robert B.

1987 Burial diagenesis of carbonate rocks: Colorado School Mines, Quart., v. 82, no. 1, p. 1-15, 16 figs.

Hamilton, Warren

1987 Plate-tectonic evolution of the western U.S.A.: Episodes, v. 10, no. 4, p. 271-276, 6 figs.

Hammond, Charles M.

1987a Geology of the Navajo Gap area between the Ladron Mountains and Mesa Sarca, Socorro County, New Mexico—a structural analysis: M.S. thesis, New Mexico Inst. Mining and Tech., 212 p., 30 figs., 14 appendices, 1 sheet, scale 1:12,000

1987b Structural analysis of Navajo Gap, Socorro County, New Mexico—a Laramide shear zone at the southeast edge of Colorado Plateau (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 280

Handschy, James W.

1987 (and Dyer, Russ) Polyphase deformation in Sierra del Cuervo, Chihuahua, Mexico—evidence for ancestral Rocky Mountain tectonics in the Ouachita foreland of northern Mexico: Geol. Soc. America, Bull., v. 99, no. 5, p. 618-632, 2 tables, 10 figs.

1987 (Keller, G. Randy, and Smith, K. J.) The Ouachita system in northern Mexico: Tectonics, v. 6, no. 3, p. 323-330, 3 figs.

Hansen, Wayne R.

see Buhl, Van Etten, and Hansen, 1987

Hansley, Paula L.

1987 Petrologic and experimental evidence for the etching of garnets by organic acids in the Upper Jurassic Morrison Formation, northwestern New Mexico: Jour. Sed. Petrology, v. 57, no. 4, p. 666-681, 2 tables, 17 figs.

see Spirakis and Hansley, 1987

Harder, Vicki M.

1987a An interpretation of fluorite fission track ages from the southern Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 693

1987b Fission tracks in fluorite and apatite with geologic applications: Ph.D. dissertation, Univ. Texas (El Paso), 81 p., 4 tables, 13 figs.

Hargett, Tom W.

1987 (and Nelson, Eric P.) Strain analysis around the steeply plunging nose of a Laramide basement-cored fold, Fra Cristobal Range, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 281

Harmon, R. S.

see Duncker, Wolff, Harmon, Leat, Thompson, and Baldrige, 1987

Harrington, Charles D.

1987 Application of rock-varnish dating of Quaternary surficial deposits in determining times of fault movement, in Directions in paleoseismology—proceedings of the 39th conference, A. J. Crone and E. M. Omdahl, editors: U.S. Geol. Survey, Open-file Rept. 87-673, p. 70-75, 3 figs.; Los Alamos Natl. Lab., Rept. LA-UR-87-2865, 13 p.

1987 (and Dethier, David P.) Geomorphic and stratigraphic evidence for Quaternary displacement along the northern Pajarito fault system near Hernandez, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 281

1987 (and Whitney, John W.) Scanning electron microscope method for rock-varnish dating: Geology, v. 15, no. 10, p. 967-970, 1 table, 1 fig.

see Dethier and Harrington, 1987a,b

Harris, Arthur H.

1987 Reconstruction of mid-Wisconsin environments in southern New Mexico: Natl. Geog. Research, v. 3, no. 2, p. 142-151

see Van Devender, Bradley, and Harris, 1987

Harris, C. W.

see Gibson, Harris, Eriksson, and Simpson, 1987

Harris, Linda G.

1987 (editor) Managing the river—proceedings of the thirty-first annual New Mexico water conference: New Mexico State Univ., Water Resources Research Inst., Rept. WRR-219, 244 p.

Harris, Mark T.

1987 Sedimentology of the Cutoff Formation (Permian), western Guadalupe Mountains, west Texas: New Mexico Geology, v. 9, no. 4, p. 74-79, 2 tables, 7 figs.

Harris, Michael J.

1987a Column leach testing of gold ore from the Ortiz gold mine—the effect of surfactant additions to the leaching solution: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 307, 21 p., 1 tables, 4 figs., 1 appendix

1987b Flotation concentration of a low-grade fluorite ore from southwestern New Mexico—a preliminary study: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 321, 16 p., 2 tables

Harrison, Richard W.

1987 Cenozoic structure of north-central Black Range, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 694-695

Hartman, Joseph H.

1987 Paleocene nonmarine mollusca from the Raton Formation, Raton Basin, New Mexico, in Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 271-273, 1 fig.

Harvey, D. M.

see Lambert and Harvey, 1987

Harvey, Michael D.

see Ethridge, Flores, and Harvey, 1987

Hassemer, Jerry R.

see Richter, Houser, Watts, Klein, Sharp, Drewes, Hedlund, Raines, and Hassemer, 1987

Hattin, Donald E.

1987 Pelagic/hemipelagic rhythmites of the Greenhorn Limestone (Upper Cretaceous) of northeastern New Mexico and southeastern Colorado, in Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 237-247, 16 figs.

see Laferriere, Hattin, and Archer, 1987

Haug, Andreas

1987 A modeling study of the Culebra Dolomite, in Proceedings of the Solving ground water problems with models conference and exposition: Dublin, Ohio, Natl. Water Well Assoc., p. 827-852, 1 table

1987 (Kelley, V. A., LaVenue, A. M., and Pickens, J. F.) Modeling of ground-water flow in the Culebra Dolomite at the Waste Isolation Pilot Plant (WIPP) site—interim report: Sandia Natl. Lab., Rept. SAND86-7167, 93 p., 26 tables, 100 figs., 4 sheets, 6 appendices

Hauser, E.

see Lundy, Hauser, Brown, Oliver, and Kaufman, 1987

Havlena, Jeffrey

see Stephens, Cox, and Havlena, 1987

Hawkins, Ward L.

see Rowley, Hawkins, and Gardner, 1987

Hawley, John W.

1987 (and Machette, Michael N.) Late Cenozoic evolution of basins and valleys in the southern Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 697

1987a (McLemore, Virginia T., and Bowie, Mark R.) Road log from Escondida to Pueblito, Loma de las Cañas,

- and junction of county road A-129 and US-380 near Carthage (including a stop at Arroyo del Tajo interpretive site), in *Guidebook to the Socorro area, New Mexico*, V. T. McLemore and M. R. Bowie, compilers: New Mexico Bureau Mines Mineral Resources, p. 25-32, 7 figs.
- 1987b** (McLemore, Virginia T., and Bowie, Mark R.) Road log from junction of county road A-129 and US-380 west to Carthage and San Antonio, in *Guidebook to the Socorro area, New Mexico*, V. T. McLemore and M. R. Bowie, compilers: New Mexico Bureau Mines Mineral Resources, p. 33-37, 7 figs.
- see Chamberlin, McLemore, Bowie, and Hawley, 1987; Love, D. W., Reimers, Hawley, Johnpeer, and Bobrow, 1987; McGrath and Hawley, 1987; McLemore, Bowie, and Hawley, 1987a,b; and Seager, Hawley, Kottlowski, and Kelley, 1987
- Hayden, Steven N.**
see Lucas, Allen, and Hayden, 1987; Lucas, Holbrook, Sullivan, and Hayden, 1987; Lucas, Hunt, and Hayden, 1987a-c; and Neuhauser, Lucas, de Albuquerque, Loudon, Hayden, Kietzke, Oakes, and Des Marais, 1987
- Hayes, Michael J.**
see Dickinson, Klute, Hayes, Janecke, Lundin, McKittrick, and Olivares, 1987
- Haynes, Patrick E.**
1987 Minerals from the Squaw Creek tin mine, Black Range tin district, Black Range, Catron County, New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Mineral Symp.*; abs. also in *New Mexico Geology*, 1988, v. 10, no. 1, p. 19
- Heatherington, A. L.**
see Bowring and Heatherington, 1987
- Hedal, J. A.**
see Lovering and Heddal, 1987
- Hedlund, D. C.**
see Richter, Houser, Watts, Klein, Sharp, Drewes, Hedlund, Raines, and Hassemer, 1987
- Heiken, Grant H.**
1987 (and Wohletz, Kenneth) Tephra deposits associated with silicic domes and lava flows, in *The emplacement of silicic domes and lava flows*, J. H. Fink, editor: *Geol. Soc. America, Spec. Paper 212*, p. 55-76
- Heimes, Frederick J.**
see Thelin and Heimes, 1987
- Heller, John P.**
1987 (Kovarik, Frank S., and Taber, Joseph J.) Improvement of CO₂ flood performance—second annual report: *New Mexico Research and Develop. Inst., Rept. 2-74-4326*, 254 p.; *Natl. Tech. Inf. Serv., Rept. PB88 128 798*
- Helm, Paula J.**
see Breed, Musick, and Helm, 1987
- Helsel, Dennis R.**
see Cain, Helsel, and Ragone, 1987
- Hemming, N. Gary**
1987 (Meyers, William J., and Grams, John C.) Quantitative measurement of cathode-luminescent intensity of calcite cements—Mn and Fe as the primary control (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 699
- Hendron, Robert H.**
1987a Operations and flow testing at Fenton Hill, in *Geothermal Program Review*, Washinton, D.C.: U.S. Dept. Energy, Proc., v. 5, p. 143-151
1987b U.S. hot dry rock project: Los Alamos Natl. Lab., Rept. LA-UR-87-0041, 7 p.; *Natl. Tech. Inf. Serv., Rept. DE87 005 120*
see Kelkar, Dash, Malzahn, and Hendron, 1987; Murphy, Hendron, Miller, and Dreesen, 1987; and Schillo, Nicholson, Hendron, and Thomson, 1987
- Henley, Andrea L.**
see Walters, Owen, Henley, Winsten, and Valek, 1987
- Henry, Christopher D.**
see Price, Henry, Barker, and Parker, 1987; and Rubin, Price, Henry, and Koppenaar, 1987
- Henry, Mitchell E.**
1987 Petroleum geology of the Palo Duro Basin and Pedernal uplift provinces as a basis for estimates of undiscovered hydrocarbon resources: U.S. Geol. Survey, Open-file Rept. 87-450-4, 35 p.
- Herbel, C. H.**
1987 (and Gibbens, R. P.) Soil water regimes of loamy sands and sandy loams on arid rangelands in southern New Mexico: *Jour. Soil and Water Conservation*, v. 42, no. 6, p. 442-446, 4 tables, 2 figs.; abs. in *Sel. Water Resources Abs.*, 1988, v. 21, no. 10, p. 22
- Hereford, Richard**
see Graf, Hereford, Laity, and Young, 1987
- Hernance, John F.**
1987 Implications of contemporary magnetic variation studies for regional tectonic processes in the Rio Grande rift (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 701
- Hermann, Michael L.**
1987 Geology of the southwestern San Mateo Mountains, Socorro County, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 192 p., 3 tables, 71 figs., 1 appendix, 2 sheets, scale 1:24,000
see Cox, Hermann, and Hesse, 1987
- Herrin, E. T.**
see Bogaards, Stump, and Herrin, 1987
- Hesse, Courtney E.**
see Cox, Hermann, and Hesse, 1987
- Hester, Pat**
see de Gruyter, DeLong, Hester, and Walter, 1987
- Hiemann, Mary H.**
1987 Diagenesis of the Lower Pennsylvanian Morrow Sandstone, Empire South field, Eddy County, New Mexico: M.S. thesis, Texas A&M Univ., 132 p.
- Hill, Carol A.**
1987 Geology of Carlsbad Cavern and other caves in the Guadalupe Mountains, New Mexico and Texas: *New Mexico Bureau Mines Mineral Resources, Bull. 117*, 150 p., 31 tables, 131 figs., 16 pls., 9 sheets
1987 (and Gillette, D. D.) A uranium-series date for the Shasta ground sloth, *Nothrotheriops shastensis*, from Carlsbad Cavern, New Mexico: *Jour. Mammalogy*, v. 68, no. 3, p. 718-719
- Hingtgen, John S.**
see Barker, J. M., Hingtgen, and Bowie, 1987
- Hinrichs, Paul D.**
1987 (Lucia, F. Jerry, and Mathis, Robert L.) Permeability distribution and reservoir continuity in Permian San Andres shelf carbonates, Guadalupe Mountains, New Mexico (abs.): *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 2, p. 239
- Hjellming, Carol A.**
see Love, J. C., Hjellming, and Boyle, 1987
- Hlava, Paul F.**
see Foord, Hlava, Fitzpatrick, and Maxwell, 1987
- Hoag, David L.**
see Munson, Jones, Hoag, and Ball, 1987
- Hobbs, Bryan T.**
see Caldwell, J. A., and Hobbs, 1987
- Hoffer, Jerry M.**
1987 Unusual gas explosion craters, Potrillo Basalt field, southcentral New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 283
see Powers, Holt, and Hoffer, 1987

- Hofstra, A. H.**
see Landis, Hofstra, Leach, and Rye, 1987
- Holbrook, John M.**
1987 (and Wright, Robyn) New observations concerning the Jurassic–Cretaceous boundary in east-central New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs*, p. 16; *abs. also in New Mexico Geology*, 1988, v. 10, no. 2, p. 41
1987 (Wright, Robyn, and Kietzke, Kenneth K.) Stratigraphic relationships at the Jurassic–Cretaceous boundary in east-central New Mexico, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 161–165, 1 table, 5 figs.
see Lucas, Holbrook, Sullivan, and Hayden, 1987; Lucas, Hunt, Kues, and Holbrook, 1987; Lucas, Hunt, Kues, Trauger, and Holbrook, 1987; and Wright, Kisucky, and Holbrook, 1987
- Holcomb, David J.**
1987 Consolidation of crushed salt with added water (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1479
1987 (and Shields, Marleen) Hydrostatic creep consolidation of crushed salt with added water: *Sandia Natl. Lab., Rept. SAND87–1990*, 123 p.
- Holdaway, M. J.**
1987 (Geving, R. L., Goodge, J. W., Dickerson, R. P., and Dutrow, B. L.) The case for retrograde chlorite in staurolite-garnet-two-mica schist (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 705
- Holder, Gerald D.**
see Enick, Holder, and Mohamed, 1987
- Holditch, S. A.**
1987 (Robinson, B. M., and Whitehead, W. S.) Tight gas sands research program—field operations and analysis; cooperative well report, Mobil producing Texas and New Mexico G. E. Cargill no. 14, Harrison County, Texas, topical report July 1986–September 1986: *Gas Research Inst., rept. prepared by Holditch and Assoc., Inc. for Gas Research Inst., Rept. GRI–87/0095*
- Holliday, Vance T.**
1987a A 1.4 m.y. record of eolian sedimentation and soil formation on the southern High Plains, Texas and New Mexico (abs.): *Internat. Union for Quaternary Research, 12th Internat. Congress, July 31–August 9, 1987, Ottawa, Ontario, Canada, Program and Abs.*, p. 188
1987b A re-examination of late Pleistocene boreal forest reconstructions for the southern High Plains: *Quaternary Research*, v. 28, no. 2, p. 238–244, 2 tables
- Holt, Robert M.**
1987a (and Powers, Dennis W.) Rustler Formation in the waste handling and exhaust shafts, Waste Isolation Pilot Plant (WIPP) site, southeastern New Mexico, in *The Rustler Formation at the WIPP site—report of a workshop on the geology and hydrology of the Rustler Formation as it relates to the WIPP project*, L. Chaturvedi, editor: *New Mexico Health and Environ. Dept., Environ. Improvement Div., Environ. Evaluation Group, Rept. EEG–34*, p. 26–35
1987b (and Powers, Dennis W.) The Permian Rustler Formation at the WIPP site, southeastern New Mexico, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 140–148, 3 figs.
see Powers, Holt, and Hoffer, 1987
- Hon, Ken**
1987 Alkalic igneous activity related to early extension of the northern Rio Grande rift (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 283
- Hoover, J. D.**
see Kiely, James, Hoover, and McCurry, 1987
- Hoover, J. W.**
see Pittaway, Albright, Hoover, and Moore, 1987
- Horner, D. M.**
see Decker and Horner, 1987; and Kelso, Decker, Wicks, and Horner, 1987
- Hostettler, K. K.**
1987 (and Schlue, John W.) Average crustal shear-wave velocities from the Plains of San Agustin to Carrizozo, New Mexico, utilizing fundamental-mode Rayleigh waves (abs.): *New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs*, p. 37; *abs. also in New Mexico Geology*, 1988, v. 10, no. 2, p. 44
see Schlue, Hostettler, and Edwards, 1987
- House, Leigh S.**
1987a Locating microearthquakes induced by hydraulic fracturing in crystalline rock: *Geophys. Research Letters*, v. 14, no. 9, p. 919–921
1987b Relocation of microearthquakes recorded by the northern New Mexico seismic network (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 16, p. 362
1987 (and Jensen, Bridget) Focal mechanisms of microearthquakes induced by hydraulic injection in crystalline rock (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1346
see Fehler, House, and Kaidea, 1987; Gardner and House, 1987; and Whetten, Dennis, Dreesen, House, Murphy, Robinson, and Smith, 1987
- Houser, Brenda B.**
1987 Geologic map of the Alma quadrangle, Catron County, New Mexico: *U.S. Geol. Survey, Geol. Quad. Map GQ–1610*, 1 table, 3 figs., 1 sheet, scale 1:24,000
see Richter, Houser, Watts, Klein, Sharp, Drewes, Hedlund, Raines, and Hassemer, 1987
- Hovorka, Susan D.**
1987a Depositional environments of marine-dominated bedded halite, Permian San Andres Formation, Texas: *Sedimentology*, v. 34, no. 6, p. 1029–1054, 1 table, 17 figs.
1987b Diagenesis of the San Andres Formation—unit 4 carbonate: *Univ. Texas (Austin), Bureau Econ. Geology, Open-file Rept. WTWI–1985–41 (revised 4–13–87)*
see Fisher and Hovorka, 1987; Fracasso and Hovorka, 1987; and Knauth, Hovorka, and Fisher, 1987
- Howard, C. L.**
see Stormont and Howard, 1987
- Howard, Kerry S.**
1987 Surficial manifestations of deep-seated Permian salt bed dissolution near Loco Hills, New Mexico: *M.S. thesis, Texas Tech Univ.*, 67 p.
- Hubbard, Norman**
see Zaikowsky, Kosanke, and Hubbard, 1987
- Hudson, J. D.**
1987a Ground-water depletion allowed in central Lea County, New Mexico, by U.S. Internal Revenue Service for calendar year 1986: *New Mexico State Engineer, Map LC–29*, 1 sheet
1987b Ground-water depletion allowed in northern Lea County, New Mexico, by U.S. Internal Revenue Service for calendar year 1986: *New Mexico State Engineer, Map LN–29*, 1 sheet
1987c Ground-water depletion allowed in part of Curry County, New Mexico, by U.S. Internal Revenue Service for calendar year 1986: *New Mexico State Engineer, Map CU–27*, 1 sheet
1987d Ground-water depletion allowed in Portales Valley, Roosevelt County, New Mexico, by U.S. Internal Rev-

- enue Service for calendar year 1986: New Mexico State Engineer, Map RO-30, 1 sheet
- Huffman, A. Curtis, Jr.**
1987 Petroleum geology and hydrocarbon plays of the San Juan Basin petroleum province: U.S. Geol. Survey, Open-file Rept. 87-450-B, 67 p., 7 tables, 24 figs.
- Hugman, Robert**
1987 (and Vidas, E. Harry) Oil and gas resources of the western mountain regions of the United States—an update of the oil and gas resource base in the hydrocarbon supply model: Gas Research Inst., rept. prepared by Energy and Environmental Analysis, Inc. for Gas Research Inst., 184 p., 26 tables, 33 figs., 4 appendices
- Hulen, Jeffrey B.**
1987 (and Nielson, Dennis L.) Hydrothermal brecciation in the Jemez fault zone, Valles caldera, New Mexico—results from CSDP (Continental Scientific Drilling Program) corehole VC-1: Utah Univ. Research Inst., Earth Science Lab., Rept. DOE/ER/13467-T1, ESL-87005-JP, 74 p.; Natl. Tech. Inf. Serv., Rept. DE87 012 101
1987 (Nielson, Dennis L., Goff, Fraser, and Gardner, Jamie N.) Hydrothermal alteration and molybdenum mineralization in the active geothermal system at Sulphur Springs, Valles caldera, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 16, p. 469
1987 (Nielson, Dennis L., Goff, Fraser, Gardner, Jamie N., and Charles, Robert W.) Molybdenum mineralization in an active geothermal system, Valles caldera, New Mexico: Geology, v. 15, no. 8, p. 748-752, 2 tables, 3 figs.
see Goff, Nielson, Gardner, and Hulen, 1987; Goff, Nielson, Gardner, Hulen, Lysne, Shevenell, and Rowley, 1987; and Nielson and Hulen, 1987a,b
- Hull, H. F.**
see Gallaher, McQuillan, Chavez, Hull, and Eidson, 1987
- Humphrey, James R.**
see Wong, Humphrey, and Ely, 1987
- Hunt, Adrian P.**
1987 (and Kietzke, Kenneth K.) Stratigraphy of the Morrison Formation (Late Jurassic) in the Lamy area, Santa Fe County, New Mexico, and correlation between the Morrison on the Colorado Plateau and in east-central New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 15; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 40
1987a (and Lucas, Spencer G.) Cretaceous disappearance and reappearance of sauropod dinosaurs in the North American Western Interior (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 3, p. 171
1987b (and Lucas, Spencer G.) J. W. Stovall and the Mesozoic of the Cimarron Valley, Oklahoma and New Mexico, *in* Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 139-151, 2 tables, 12 figs.
1987c (and Lucas, Spencer G.) Southernmost outcrops of the Morrison Formation in the Carthage area, Socorro County, New Mexico: New Mexico Geology, v. 9, no. 3, p. 58-62, 1 table, 4 figs.
1987d (and Lucas, Spencer G.) Supplemental road log 1, from junction of NM-18 north and NM-18 east to junction of NM-18 and NM-325, *in* Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 55-56, 2 figs.
1987e (and Lucas, Spencer G.) Triassic stratigraphy, Carthage area, Socorro County, New Mexico, and the southeasternmost outcrops of the Moenkopi Formation (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 47; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 45
1987a (Lucas, Spencer G., and Kues, Barry S.) Supplemental road log 5, from Travesser Park to Folsom, *in* Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 60-62, 3 figs.
1987b (Lucas, Spencer G., and Kues, Barry S.) Supplemental road log 6, from Des Moines to Folsom, *in* Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 62-63, 1 fig.
1987c (Lucas, Spencer G., and Kues, Barry S.) Third-day road log, from Clayton to Des Moines, Capulin, Capulin Mountain National Monument, Folsom, Raton, and the Cretaceous-Tertiary boundary on Goat Hill, *in* Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 41-54, 21 figs.
see Lucas and Hunt, 1987a-e; Lucas, Hunt, and Hayden, 1987a-c; Lucas, Hunt, and Kues, 1987; Lucas, Hunt, Kues, and Holbrook, 1987; Lucas, Hunt, Kues, Trauger, and Holbrook, 1987; Lucas, Hunt, and Martini, 1987; Lucas, Mateer, Hunt, and O'Neill, 1987; and Martini, Hunt, and Lucas, 1987
- Hunter, Judy F.**
see Medlin, Krohn, and Hunter, 1987
- Hunter, Regina L.**
1987 A regional water balance for the WIPP site and surrounding area, *in* The Rustler Formation at the WIPP site—report of a workshop on the geology and hydrology of the Rustler Formation as it relates to the WIPP project, L. Chaturvedi, editor: New Mexico Health and Environ. Dept., Environ. Improvement Div., Environ. Evaluation Group., Rept. EEG-34, p. 58-70, 1 table, 5 figs.
- Hurley, Neil F.**
see Zempolich, Hurley, and Gonzalez, 1987
- Hutchins, David A.**
see Koenig, Borduin, Hutchins, Vavruska, and Warner, 1987
- Hutter, T. J.**
1987 Ordovician chitinozoan zones of Great Basin (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 8, p. 1008
- Ingersoll, Raymond V.**
1987 Actualistic petrofacies—applications in paleotectonic reconstructions (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 5, p. 570
1987 (Cavazza, William, Baldrige, W. Scott, and Shafiqullah, Muhammad) Oligocene-Miocene volcanoclastic petrofacies and basin evolution in northern New Mexico—implications for initiation of Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 712
- Ingram, Helen**
see Brown, F. L., and Ingram, 1987
- IT Corporation**
1987 Laboratory investigation of crushed salt consolidation and fracture healing: U.S. Dept. Energy, rept. prepared by IT Corp. for Office of Nuclear Waste Isolation, Battelle Memorial Inst., Rept. BMI/ONWI-631
- Izett, Glen A.**
1987a Authigenic "spherules" in K-T boundary sediments at Caravaca, Spain, and Raton Basin, Colorado and New Mexico, may not be impact derived: Geol. Soc. America, Bull., v. 99, no. 1, p. 78-86
1987b Size of crystals and glass shards in Lava Creek B ash and of shock-metamorphosed minerals in K-T boundary rocks provide constraint on K-T boundary impact site (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 713

- 1987c** The Cretaceous–Tertiary (K–T) boundary interval, Raton Basin, Colorado and New Mexico, and its content of shock-metamorphosed minerals—implications concerning the K–T boundary impact-extinction theory: U.S. Geol. Survey, Open-file Rept. 87–606, 125 p.
- Jackson, M. P. A.**
see Talbot and Jackson, 1987
- Jackson, R. D.**
see Teillet, Slater, Jackson, Fedosejevs, and Moran, 1987
- Jaksha, Lawrence H.**
see King, Sanford, and Jaksha, 1987; Sanford, Ake, Jarpe, and Jaksha, 1987; and Sanford, Jaksha, and Cash, 1987
- Jameossanaie, Abolfazl**
1987 Palynology and age of South Hospah coal-bearing deposits, McKinley County, New Mexico: New Mexico Bureau Mines Mineral Resources, Bull. 112, 65 p., 4 tables, 17 figs.
- James, W. Calvin**
1987 Channel and channel-adjacent deposits, Delaware Mountain Group (Permian), west Texas, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: El Paso Geol. Soc., Guidebook 18, p. 49–62, 5 figs.
1987 (and Powers, Dennis W.) First day road log, Geology Building, U. T. El Paso–Hueco Mountains–Salt Flat graben–Delaware Basin–Carlsbad, New Mexico, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: El Paso Geol. Soc., Guidebook 18, p. 1–23
see Kiely, James, Hoover, and McCurry, 1987; and Powers and James, 1987a,b
- Janecke, Suzanne U.**
see Dickinson, Klute, Hayes, Janecke, Lundin, McKittrick, and Olivares, 1987
- Janecky, D. R.**
1987 (Charles, Robert W., and Goff, Fraser) Geochemistry of molybdenum-bearing assemblages in CSDP well VC–2A, Valles caldera, New Mexico (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 48, no. 16, p. 469–470
see Bayhurst and Janecky, 1987
- Janik, Cathy J.**
see Shevenell, Goff, Vuataz, Trujillo, Counce, Janik, and Evans, 1987
- Jannik, N. O.**
see Leavy, Phillips, Smith, Jannik, Elmore, and Kubik, 1987
- Jarpe, Stephen**
see Sanford, Ake, Jarpe, and Jaksha, 1987
- Jensen, A. Lee**
see Tomasko and Jensen, 1987
- Jensen, Bridget**
see House and Jensen, 1987
- Jeske, Rodney E.**
1987 Mineral resources of the Organ Mountains Wilderness Study Area (NM–030–074), Doña Ana County, New Mexico: U.S. Bureau Mines, Open-file Rept. MLA–6–87, 81 p., 9 tables, 12 figs., 2 appendices, 1 sheet, scale 1:24,000
- Jiracek, George R.**
1987 (Curtis, J., Meile, M. J., and Vozoff, K.) “Static” distortion correction in magnetotellurics using Rayleigh–FFT modelling and other geophysical data (abs.): *Internat. Union of Geodesy and Geophysics, General Assembly XIX*, v. 2, p. 450
1987 (Martinez, Mario, Rodriguez, J. Carlos, Romo, Jose M., and Fernandez, Ricardo) New magnetotelluric soundings and interpretations of crustal conditions in the north-central Rio Grande rift (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 717
- 1987 (Rodi, W. L., and Vanyan, L. L.) Implications of magnetotelluric modeling for the deep crustal environment in the Rio Grande rift: *Physics Earth and Planet. Interiors*, v. 45, no. 2, p. 179–192, 15 figs.
see Rodriguez, Martinez, Fernandez, Romo, and Jiracek, 1987
- Jochems, Theodore P.**
1987 Geological, paleomagnetic, and geophysical studies at Jones Camp dike, Socorro County, NM: M.S. thesis, New Mexico Inst. Mining and Tech., 217 p., 11 pls.
- Johnpeer, Gary D.**
1987a (Bobrow, Danny J., Robinson–Cook, Sylveen, and Barrie, Don) Geotechnical investigation of a site in New Mexico for the Superconducting Super Collider: *New Mexico Geology*, v. 9, no. 1, p. 11, 1 fig.
1987b (Bobrow, Danny J., Robinson–Cook, Sylveen, and Barrie, Don) Preliminary study for siting the Superconducting Super Collider in New Mexico—interim report on the northern Estancia Basin site: *New Mexico Bureau Mines Mineral Resources, Open-file Rept. 257*, 78 p., 7 tables, 14 figs., 1 appendix
1987 (Robinson–Cook, Sylveen, Bobrow, Danny J., Barrie, Don, Kelliher, Joe, and McNeil, Robert) Estancia Basin, New Mexico, Superconducting Super Collider—vol. 3, geology and tunneling: *New Mexico Bureau Mines Mineral Resources, Open-file Rept. 258*, 224 p., 15 figs., 10 appendices
see Love, D. W., Reimers, Hawley, Johnpeer, and Bobrow, 1987
- Johns, David A.**
1987 (and Granata, George E.) Regional tectonic setting and depositional trends of the Dockum Group, west Texas and eastern New Mexico: *Arizona–Nevada Acad. Sci., Jour.*, v. 22, no. 1, p. 53–72, 16 figs.
- Johnson, C. M.**
see Thompson, R. A., and Johnson, 1987
- Johnson, N. M.**
see Lindsay, Johnson, Opdyke, and Butler, 1987
- Johnson, Stephen L.**
see Erickson, Johnson, Klingler, Wildman, and Wilson, 1987
- Johnson, William K.**
see McLaughlin and Johnson, 1987
- Johnston, Robert R.**
1987 North American drilling activity in 1986: *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 10, pt. B, p. 4–33, 20 tables, 8 figs., 8 appendices
- Jonasson, Ralph G.**
1987 Chemistry and geochemistry of the rare earth element phosphates: Ph.D. dissertation, Univ. Western Ontario
- Jones, Gerard F.**
see Robinson, B. A., and Jones, 1987
- Jones, Janet L.**
1987 (Kilburn, James E., Zimbelman, David R., and Siems, David F.) Analytical results and sample locality maps of heavy-mineral-concentrate and rock samples from the West Potrillo/Mt. Riley Wilderness Study Area (030–052), Luna and Doña Ana Counties, New Mexico: U.S. Geol. Survey, Open-file Rept. 87–265, 23 p., 4 tables, 1 sheet, scale 1:50,000
1987 (Turner, Robert L., and Day, Gordon W.) Analytical results and sample locality map of heavy-mineral-concentrate and rock samples from the Sierra de las Cañas Wilderness Study Area, Socorro County, New Mexico: U.S. Geol. Survey, Open-file Rept. 87–627, 11 p., 4 tables, 1 sheet, scale 1:24,000
see Delaney, T. A., Day, Turner, and Jones, 1987

Jones, Richard W.

see Friedman, Jones, Treworgy, and Smith, 1987

Jones, Robert L.

see Munson, Jones, Hoag, and Ball, 1987; and Munson, Torres, and Jones, 1987

Jordana, Mark J.

see Michael and Jordana, 1987

Juilland, J. D.

see Krason, Wodzicki, Cruver, Juilland, and King, 1987

Justice, M. G.

1987 (McCormack, M. D., and Lee, S. S.) Anisotropy in the Morrow Formation of southeast New Mexico, in *Shear-wave exploration*, S. H. Danbom and S. N. Domenico, editors: Tulsa, Soc. Exploration Geophys., p. 154-164

Kaczmarek, Edward L.

1987 Depositional environments, sediment dispersal, and provenance of the Upper Cretaceous Colorado Formation, southwestern New Mexico: M.S. thesis, New Mexico State Univ., 107 p.; *abs. in* New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 18; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 41

Kahn, Peter A.

1987 Geology of Aden Crater, Doña Ana County, New Mexico: M.S. thesis, Univ. Texas (El Paso)

Kaidea, Hideshi

see Fehler, House, and Kaidea, 1987

Kalesky, John F.

1987 Tectonics and depositional environments in the Early Pennsylvanian of south-central New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 2, p. 240; *abs. also in* New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 33; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 43

Kanaori, Yuji

see Robinson, B. A., Aguilar, Kanaori, Trujillo, Counce, Birdsell, and Matsunaga, 1987

Karas, Paul A.

1987 Quaternary alluvial sequence of the upper Pecos River and a tributary, Glorieta Creek, north-central New Mexico, in *Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico*, C. Menges, editor: Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf., p. 159-176, 6 tables, 6 figs.

see Menges, Dethier, Love, and Karas, 1987

Kauffman, David

1987 (Kong, Emery J. C., and Lin, Jakob P. H.) Radon emissions during mill tailings backfill operations in a uranium mine: *Environ. Geology and Water Sci.*, v. 10, no. 3, p. 129-133, 2 tables, 2 figs.

Kaufman, S.

see Lundy, Hauser, Brown, Oliver, and Kaufman, 1987

Kawachi, Yosuke

see Sipiera, Becker, and Kawachi, 1987

Keener, Will

see Rountree and Keener, 1987

Keil, Klaus

see Goodrich, Keil, Berkley, Laul, Smith, Wacker, Clayton, and Mayeda, 1987

Keith, Stanley B.

1987 (and Swan, Monte M.) Oxidation state of magma series in the southwestern U.S.—implications for geographic distribution of base, precious, and lithophile metal metallogeny (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 723-724

see Wilt and Keith, 1987

Kelkar, Sharad M.

1987 (Dash, Zora V., Malzahn, Mark V., and Hendron,

Robert) Hydraulic and thermal behavior of a hot dry rock reservoir during a 30-day circulation test, in *Building for the future*, L. T. Elliot, chairperson: Geothermal Resources Coun., Trans., v. 11, p. 547-552, 1 table

1987 (and Malzahn, Mark V.) Recent U.S. hot dry rock reservoir testing and hydrothermal modeling: Los Alamos Natl. Lab., Rept. LA-UR-87-1256, 15 p., 1 table, 10 figs.; Natl. Tech. Inf. Serv., Rept. DE87 008 996; *abs. in* Sel. Water Resources Abs., 1988, v. 21, no. 9, p. 214

Keller, G. Randy

1987 (and Olsen, Kenneth H.) A comparison of crustal structure in the Rio Grande and Kenya rifts (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 724

1987 (Rogers, A. M., and Orr, C. D.) Seismic activity in the Permian Basin area of west Texas and southeastern New Mexico, 1975-1979: *Seismol. Research Letters*, v. 58, no. 2, p. 63-70, 4 tables, 8 figs.

see Handschy, Keller, and Smith, 1987

Keller, Natalie

see Gallaher and Keller, 1987

Kelley, Kurtis C.

1987 Palynologic investigation of the Moreno Hill Formation (Upper Cretaceous), west-central New Mexico: M.S. thesis, Michigan State Univ., 117 p., 6 pls., 24 figs., 2 appendices

Kelley, Shari A.

see Seager, Hawley, Kottowski, and Kelley, 1987

Kelley, Van A.

1987 (Pickens, J. F., Reeves, M., and Beauheim, Richard L.) Double-porosity tracer-test analysis for interpretation of the fracture characteristics of a dolomite formation, in *Proceedings of the Solving ground water problems with models conference and exposition*: Dublin, Ohio, Natl. Water Well Assoc., p. 147-149, 2 tables

see Haug, Kelley, LaVenue, and Pickens, 1987; Pearson, Kelley, and Pickens, 1987; Reeves, Kelley, and Pickens, 1987; and Tomasko, Reeves, Kelley, and Pickens, 1987

Kelliher, Joe

see Johnpeer, Robinson-Cook, Bobrow, Barrie, Kelliher, and McNeil, 1987

Kelly, Hugh T.

1987 Hydrologic coefficients for the Ogallala aquifer in the vicinity of Roy, Harding County, New Mexico, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 317-321, 1 table, 7 figs.

Kelly, T. E.

see Trauger and Kelly, 1987

Kelsall, Peter C.

see Case and Kelsall, 1987; and Case, Withiam, and Kelsall, 1987

Kelso, Bruce S.

1987 San Juan Basin, Colorado and New Mexico (Basin activities progress report, second quarter 1987): *Quart. Review of Methane from Coal Seams Tech.*, v. 5, no. 2, p. 3-9, 1 table, 1 fig.

1987 (Decker, A. David, Wicks, Donald E., and Horner, D. M.) Geologic and economic appraisal of coalbed methane in the San Juan Basin: Gas Research Inst., Univ. Alabama, and U.S. Dept. Labor, Coalbed Methane Symp., Tuscaloosa, Alabama, November 16-19, 1987, Proc., p. 119-130

Kelson, Keith I.

1987 (and Wells, Stephen G.) Present-day fluvial hydrology and long-term tributary adjustments, northern New Mexico, in *Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico*, C. Menges, editor: Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf., p. 95-109, 4 tables, 11 figs.

- see Menges, Kelson, and Wells, 1987; and Wells, Kelson, and Menges, 1987
- Kendrick, David T.**
see Kuellmer, Kendrick, and Baker, 1987a,b
- Kernodle, J. Michael**
1987 Using a geographic information system to assist in numerical analysis and to prepare cartographic products for the San Juan Basin Regional Aquifer-System Analysis, New Mexico and Colorado (abs.): U.S. Geol. Survey, Open-file Rept. 87-314, p. 11; also in Abs. of papers presented at the Geographic Information Systems Symposium, June 2-4, 1987, Reston, Virginia
- 1987 (Miller, Roger S., and Scott, William B.) Three-dimensional model simulation of transient ground-water flow in the Albuquerque-Belen Basin, New Mexico: U.S. Geol. Survey, Water-resources Inv., Rept. 86-4194, 86 p.
- 1987 (and Philip, Ross D.) Using a geographic information system to develop a ground-water flow model, in Regional aquifer systems of the United States—aquifers of the western mountain area, J. S. McLean and A. I. Johnson, editors: Am. Water Resources Assoc., Monograph Ser., no. 14, p. 191-202
- Khorsandi, Farhad**
see O'Connor and Khorsandi, 1987
- Kiely, James M.**
1987 Diagenesis and depositional setting of the fanglomerate of Little Florida Mountains (Miocene), southwestern New Mexico: M.S. thesis, Univ. Texas (El Paso), 129 p.
- 1987 (James, W. Calvin, Hoover, J. D., and McCurry, Michael O.) Clast modifications in the fanglomerate of Little Florida Mountains (Miocene), southwestern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 726
see LeMone, Sandidge, Fararro, Kiely, Bullock, and Sivils, 1987a,b
- Kietzke, Kenneth K.**
1987a Calcareous microfossils from the Upper Triassic of northeastern New Mexico, in Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 119-126, 5 tables, 2 figs., 1 appendix
- 1987b The Lower Cretaceous Gulf Coast (Tethyan)-Western Interior transition—microfossil evidence from northeastern New Mexico and adjacent states, in Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 199-205, 4 tables, 2 figs., 2 appendices
see Holbrook, Wright, and Kietzke, 1987; Hunt and Kietzke, 1987; and Neuhauser, Lucas, de Albuquerque, Loudon, Hayden, Kietzke, Oakes, and Des Marais, 1987
- Kilburn, James E.**
see Jones, Kilburn, Zimbelman, and Siems, 1987
- Kilmer, L. Clay**
1987 Water-bearing characteristics of geologic formations in northeastern New Mexico-southern Colorado, in Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 275-279, 1 table, 1 fig.
- King, Kenneth W.**
see Peter, Williams, and King, 1987
- King, Kevin M.**
1987 (and Sanford, Allan R.) Delineation of the seismogenic zone in the central Rio Grande rift near Socorro, New Mexico (abs.): Seismol. Research Letters, v. 58, no. 1, p. 33-34
- 1987 (Sanford, Allan R., and Jaksha, Lawrence H.) Analysis of the seismogenic zone in the central Rio Grande rift near Socorro, New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 38; abs. also in New Mexico Geology, 1988, v. 10, no. 2, p. 44
- King, P.**
see Krason, Wodzicki, Cruver, Juilland, and King, 1987
- King, William E.**
see Broadhead and King, 1987
- Kirk, Allan R.**
1987 (and Sullivan, Michael W.) Geologic map of the Dalton Pass quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1593, 1 sheet, scale 1:24,000
- 1987a (and Zech, Robert S.) Geologic map of the Big Rock Hill quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1594, 1 sheet, scale 1:24,000
- 1987b (and Zech, Robert S.) Geologic map of the Hard Ground Flats quadrangle, McKinley County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1592, 1 sheet, scale 1:24,000
- Kirkland, Brenda L.**
1987 (Lighty, Robin G., Rezak, Richard, and Tieh, Thomas T.) Lower Cretaceous barrier reef and outer shelf facies, Sligo Formation, south Texas: Gulf Coast Assoc. Geol. Soc., Trans., v. 37, p. 371-382
- Kirkland, Douglas W.**
see Anderson, R. Y., and Kirkland, 1987
- Kispert, L. D.**
1987 Catalyst accessibility in high volatile bituminous coal—quarterly report: Univ. Alabama, Dept. Chemistry, Rept. DOE/PC/90502-4, 8 p.; Natl. Tech. Inf. Serv., Rept. DE88 000 629
- Kisucky, Michael J.**
1987 Sedimentology, stratigraphy and paleogeography of the Lower Cretaceous Mesa Rica delta system, Tucumcari Basin, east-central New Mexico: M.S. thesis, Univ. New Mexico, 124 p.
see Wright, Kisucky, and Holbrook, 1987
- Klein, D. P.**
1987 Aeromagnetic map of the Silver City 1° × 2° quadrangle, Arizona and New Mexico: U.S. Geol. Survey, Misc. Inv. Series, Map I-1310-D, 1 sheet, scale 1:250,000
see Richter, Houser, Watts, Klein, Sharp, Drewes, Hedlund, Raines, and Hassemer, 1987
- Klingler, John C.**
see Erickson, Johnson, Klingler, Wildman, and Wilson, 1987
- Klute, Margaret A.**
see Dickinson and Klute, 1987; and Dickinson, Klute, Hayes, Janecke, Lundin, McKittrick, and Olivares, 1987
- Knab, Daryl**
see Robinson, R. D., and Knab, 1987
- Knauth, L. Paul**
1987 (Hovorka, Susan D., and Fisher, R. Steven) Isotope geochemistry of fluid inclusions in relation to sedimentology and bromide geochemistry of halite in the Palo Duro Basin, Texas (abs.): Am. Current Research on Fluid Inclusions (ACROFI) mtg., Socorro, New Mexico, January 5-7, 1987, Program and Abs., unpaginated
- Knight, Jere D.**
see Orth, Gilmore, and Knight, 1987
- Koenig, Ralph A., Jr.**
1987 (Borduin, Leon C., Hutchins, David A., Vavruska, John S., and Warner, Charles L.) Los Alamos controlled air incinerator for radioactive waste, volume III—modifications for processing hazardous chemicals and mixed wastes: Los Alamos Natl. Lab., Rept. LA-09427, 48 p.
- Kofron, Bruce M.**
1987 Facies characteristics of the Upper Cretaceous Tocco Sandstone, San Juan Basin, New Mexico: M.S. thesis, Louisiana State Univ., 104 p.

- Kolar, J. D.**
see Dennis, Kolar, and Lawton, 1987
- Kong, Emery J. C.**
see Kauffman, Kong, and Lin, 1987
- Koppenaar, David W.**
see Rubin, Price, Henry, and Koppenaar, 1987
- Korzeb, Stanley L.**
see Richter, Saltus, and Korzeb, 1987
- Kosanke, Bonnie J.**
see Zaikowsky, Kosanke, and Hubbard, 1987
- Kottlowski, Frank E.**
see Roybal, Campbell, Beaumont, Cohen, Kuellmer, Kottlowski, and Cook, 1987; and Seager, Hawley, Kottlowski, and Kelley, 1987
- Kovarik, Frank S.**
see Heller, Kovarik, and Taber, 1987
- Kranz, Robert L.**
see Dey and Kranz, 1987
- Krason, J.**
1987 (Wodzicki, A., Cruver, S. K., Juilland, J. D., and King, P.) Geology, energy and mineral resources assessment of the Socorro area, New Mexico: U.S. Bureau Land Management, Rept. BLM/YA/PT-87/003/3000, 80 p.; Natl. Tech. Inf. Serv., Rept. PB88 199 658; *abs. in* Government Reports Announcements and Index, 1988, v. 88, no. 16, p. 182
- Krause, D. W.**
1987 *Baiotomeus*, a new ptilodontoid multituberculate (Mammalia) from the middle Paleocene of western North America: Jour. Paleontology, v. 61, p. 595-603
see Archibald, Gingerich, Lindsay, Clemens, Krause, and Rose, 1987
- Kravits, Stephen J.**
1987 (Sainato, Albert, and Finfinger, Gerald L.) Accurate directional borehole drilling—a case study at Navajo Dam, New Mexico: U.S. Bureau Mines, Rept. Inv. RI-9102, 25 p., 3 tables, 20 figs.
- Kreitler, Charles W.**
see Boyd and Kreitler, 1987; Mullican, Kreitler, and Nativ, 1987; and Senger, Kreitler, and Fogg, 1987
- Kreuz, R.**
see Nash, Kreuz, and Marr, 1987
- Krieg, R. D.**
see Sjaardema and Krieg, 1987
- Krishtalka, Leonard**
1987 (West, R. M., Black, C. C., Dawson, M. R., Flynn, J. J., Turnbull, W. D., Stucky, R. K., McKenna, M. C., Bown, T. M., Golz, D. J., and Lillegraven, J. A.) Eocene (Wasatchian through Duchesnean) biochronology of North America, in Cenozoic mammals of North America—geochronology and biostratigraphy, M. O. Woodburne, editor: Berkeley, Univ. California Press, p. 77-117
- Krohn, Kathleen K.**
see Medlin, Krohn, and Hunter, 1987
- Kromm, David E.**
1987 (and White, Stephen E.) Interstate groundwater management preference differences—the Ogallala region.: Jour. Geography, v. 86, no. 1, p. 5-11, 5 tables
- Kron, Andrea**
1987 Relief map of New Mexico: New Mexico Bureau Mines Mineral Resources, Resource Map 16, 1 sheet, scale 1:1,000,000
- Krug, William R.**
see Gebert, Graczyk, and Krug, 1987
- Krukowski, Stanley T.**
1987a Interim report on the conodont biostratigraphy of the Kelly Limestone (Mississippian), central New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 7; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 39
- 1987b Preliminary conodont biostratigraphy of the Kelly Limestone (Mississippian), central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 3, p. 172
- Krumhansl, James L.**
1987a (and Stein, Carol L.) Fluid inclusions in halite from the lower Salado Formation near Carlsbad, New Mexico (abs.): Am. Current Research on Fluid Inclusions (ACROFI) mtg., Socorro, New Mexico, January 5-7, 1987, Program and Abs., unpaginated
- 1987b (and Stein, Carol L.) Preliminary report on WIPP brine compositions: Pacific Northwest Lab., Rept. PNL/SRP-SA-14341; Natl. Tech. Inf. Serv., Rept. DE87 011 908
- Kryuchkova, O. I.**
see Shukolyukov, Meshik, Pravdivtseva, Verkhovskiy, and Kryuchkova, 1987
- Kubik, P. W.**
see Leavy, Phillips, Elmore, Kubik, and Gladney, 1987; and Leavy, Phillips, Smith, Jannik, Elmore, and Kubik, 1987
- Kuellmer, Frederick J.**
1987a (Kendrick, David T., and Baker, L.) Trace element distribution in coals of the Menefee and Raton Formations of New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 735
- 1987b (Kendrick, David T., and Baker, L.) Trace element distributions in some New Mexico coals: New Mexico Research and Develop. Inst., Rept. 2-74-4321, 252 p., 23 tables; Natl. Tech. Inf. Serv., Rept. PB88 116 264; *abs. in* Government Reports Announcements and Index, v. 88, no. 4, p. 155
see Roybal, Campbell, Beaumont, Cohen, Kuellmer, Kottlowski, and Cook, 1987
- Kuentz, David C.**
see Balsley, Wolff, Kuentz, Kyle, and Gardner, 1987; and Wolff, Balsley, Kuentz, Self, and Kyle, 1987
- Kues, Barry S.**
1987a A brief history of the Santa Fe Trail and early geological studies along the Cimarron Cutoff in New Mexico, in Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 7-12
- 1987b A large nautiloid specimen from the San Andres Formation (Permian, Leonardian) near Cloudcroft, New Mexico, with a review of the nautiloids reported from the San Andres Formation: New Mexico Jour. Sci., v. 27, no. 2, p. 99-110, 1 table, 3 figs., 1 appendix
- 1987c *Pharkidonotus megalius*, a large new gastropod series from the Middle Pennsylvanian of south-central New Mexico: Jour. Paleontology, v. 61, no. 6, p. 1187-1193, 2 tables, 2 figs.
- 1987d *Texigryphaea* in the Glencairn Formation near Two Buttes, Colorado, with notes on an assemblage of *Texigryphaea* from the Kiowa Formation of southern Kansas, in Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 207-215, 3 tables, 6 figs.
- 1987a (and Lucas, Spencer G.) Cretaceous stratigraphy and paleontology in the Dry Cimarron Valley, New Mexico, Colorado, and Oklahoma, in Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field Conf., p. 167-198, 4 tables, 15 figs., 3 appendices
- 1987b (and Lucas, Spencer G.) Upper Cretaceous-Paleocene sequence, northwestern New Mexico, in Rocky Mountain Section of the Geological Society of America, S. S. Beus, editor: Geol. Soc. America, Centennial Field Guide, v. 2, p. 417-420, 5 figs.

see Connolly and Kues, 1987; Hunt, Lucas, and Kues, 1987a-c; Lucas, Hunt, and Kues, 1987; Lucas, Hunt, Kues, and Holbrook, 1987; and Lucas, Hunt, Kues, Trauger, and Holbrook, 1987

Kues, Georgianna E.

1987a Ground-water-level data for the Albuquerque-Belen Basin, New Mexico, through water year 1985: U.S. Geol. Survey, Open-file Rept. 87-116, 51 p.

1987b Ground-water levels and direction of ground-water flow in the central part of Bernalillo County, New Mexico, summer 1983 (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 21; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 41

Kuntamukkula, Murty

see Martin, F. D., and Kuntamukkula, 1987

Kyle, Philip R.

see Balsley, Wolff, Kuentz, Kyle, and Gardner, 1987; Duncker, Wolff, Leat, and Kyle, 1987; Spell and Kyle, 1987; Spell, Kyle, and Gardner, 1987; Wolff, Balsley, Kuentz, Self, and Kyle, 1987; and Wolff, Self, Kyle, and Gardner, 1987

Labreche, D. A.

1987 (and Van Sambeek, L. L.) Analysis of data from expansive salt-water concrete seals in series B small-scale seal performance tests: Sandia Natl. Lab., Rept. SAND87-7155

Laferriere, Allan P.

1987a Cyclic sedimentation in the Fort Hays Limestone Member, Niobrara Formation (Upper Cretaceous) in northeastern New Mexico and southeastern Colorado, *in* Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 249-254, 6 figs., 1 appendix

1987b Regional analysis of rhythmic bedding in the Fort Hays Limestone Member, Niobrara Formation (Upper Cretaceous), U.S. Western Interior: Ph.D. dissertation, Indiana Univ., 294 p.; *abs. in* Dissert. Abs. Internat., 1988, v. 48, no. 9, p. 2583-B

1987 (Hattin, Donald E., and Archer, Allen W.) Effects of climate, tectonics, and sea-level changes on rhythmic bedding patterns in the Niobrara Formation (Upper Cretaceous), U.S. Western Interior: *Geology*, v. 15, p. 232-236

Lagus, P. L.

see Peterson, E. W., Lagus, and Lie, 1987a,b; and Stormont, Peterson, and Lagus, 1987

Laity, Julie

see Graf, Hereford, Laity, and Young, 1987

Lambert, Steven J.

1987a Feasibility study—applicability of geochronologic methods involving radiocarbon and other nuclides to the groundwater hydrology of the Rustler Formation: Sandia Natl. Lab., Rept. SAND86-1054; Natl. Tech. Inf. Serv., Rept. DE89 016 927

1987b Stable-isotope studies of groundwaters in southeastern New Mexico, *in* The Rustler Formation at the WIPP site—report of a workshop on the geology and hydrology of the Rustler Formation as it relates to the WIPP project, L. Chaturvedi, editor: New Mexico Health and Environ. Dept., Environ. Improvement Div., Environ. Evaluation Group., Rept. EEG-34, p. 36-57, 2 tables, 4 figs.; Sandia Natl. Lab., Rept. SAND85-1978c; Natl. Tech. Inf. Serv., Rept. DE87 010 503

1987 (and Carter, Joel A.) Uranium-isotope systematics in groundwaters of the Rustler Formation, northern Delaware Basin, southeastern New Mexico—I, principles and preliminary results: Sandia Natl. Lab., Rept. SAND87-0388, 62 p., 3 tables, 17 figs.; Natl. Tech. Inf. Serv., Rept. DE90 000 928

1987 (and Harvey, D. M.) Stable isotope geochemistry of ground waters in the Delaware Basin of southeastern New Mexico: Sandia Natl. Lab., Rept. SAND87-0138; Natl. Tech. Inf. Serv., Rept. DE89 008 316

see Brookins and Lambert, 1987a,b

Landais, P.

see Meunier, Landais, Monthieux, and Pagel, 1987

Landis, Gary P.

1987 (Hofstra, A. H., Leach, D. L., and Rye, R. O.) Quantitative analysis of fluid-inclusion gases—applications to studies of ore deposits (abs.), *in* USGS research on mineral resources, 1987—program and abstracts, J. S. Sachs, editor: U.S. Geol. Survey, Circ. 995, p. 38-39

Lane, William L.

1987 Paleohydrologic data and flood frequency estimation, *in* Regional flood frequency analysis—proceedings of the International symposium on flood frequency and risk analyses, V. P. Singh, editor: Dordrecht, The Netherlands, D. Reidel Publ. Co., p. 287-298, 2 tables

Langer, W. H.

see Bedinger, Langer, and Reed, 1987

Lansford, Robert R.

1987 (and others) Sources of irrigation water and irrigated and dry cropland acreages in New Mexico, by county, 1984-86: New Mexico State Univ., Agric. Exp. Station, Research Rept. 620, 50 p., 37 tables, 11 figs.

Lantz, K. D.

see Stensrud, Bame, Lantz, LaVenue, Palmer, and Saulnier, 1987

Lappin, A. R.

1987 Recent developments in the conceptual geologic and hydrologic understanding of the WIPP (Waste Isolation Pilot Plant) site, southeastern New Mexico: Sandia Natl. Lab., Rept. SAND87-0224C, 13 p., 1 table, 5 figs; Natl. Tech. Inf. Serv., Rept. DE87 005 651; *abs. in* Government Reports Announcements and Index, v. 87, no. 16, p. 178

Larsen, Veryl E.

1987a Raton Basin, Colorado and New Mexico (Basin activities progress report, third quarter 1986): *Quart. Review of Methane from Coal Seams Tech.*, v. 4, no. 3, p. 26-27, 1 table, 1 fig.

1987b Raton Basin, Colorado and New Mexico (Basin activities progress report, fourth quarter 1986): *Quart. Review of Methane from Coal Seams Tech.*, v. 4, no. 4, p. 6, 12-13, 1 table, 1 fig.

1987c Raton Basin, Colorado and New Mexico (Basin activities progress report, first quarter 1987): *Quart. Review of Methane from Coal Seams Tech.*, v. 5, no. 1, p. 5, 10, 1 table, 1 fig.

1987d Raton Basin, Colorado and New Mexico (Basin activities progress report, second quarter 1987): *Quart. Review of Methane from Coal Seams Tech.*, v. 5, no. 2, p. 9-10, 2 tables, 2 figs.

Larson, Edwin E.

1987 (Mutschler, F. E., and Bruce, Robert N.) Nagging questions concerning the model of Laramide flat-plate subduction—a need for an alternative model (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 740

1987 (Patterson, P. E., Curtiss, G., Drake, R. E., and Mutschler, F. E.) Petrologic, paleomagnetic, and structural evidence of a Paleozoic rift system in Oklahoma, New Mexico, Colorado, and Utah—reply: *Geol. Soc. America, Bull.*, v. 99, no. 2, p. 318

Larson, Ned

see Caldwell, J. A., Larson, and Rager, 1987

Laughlin, A. William

1987 (Charles, R. W., and Brookins, D. G.) Cenozoic low-silica potassic dikes of the Navajo volcanic field (abs.):

- Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 741
see Aldrich, Chapin, Laughlin, and Zoback, 1987
- Laul, J. C.**
see Goodrich, Keil, Berkley, Laul, Smith, Wacker, Clayton, and Mayeda, 1987
- Lave, Lester B.**
see Resendiz-Carrillo and Lave, 1987
- LaVenue, A. M.**
see Haug, Kelley, LaVenue, and Pickens, 1987; *and* Stensrud, Bame, Lantz, LaVenue, Palmer, and Saulnier, 1987
- Lawson, Ellen C.**
 1987 Megabreccias and associated carbonates of Rader Member, Capitan reef complex (Permian), Guadalupe Mountains, west Texas (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 5, p. 582
- Lawton, R. G.**
see Dennis, Kolar, and Lawton, 1987
- Leach, D. L.**
see Landis, Hofstra, Leach, and Rye, 1987
- Leat, P. T.**
see Duncker, Wolff, Harmon, Leat, Thompson, and Baldrige, 1987; *and* Duncker, Wolff, Leat, and Kyle, 1987
- Leavy, Brian D.**
 1987 Surface-exposure dating of young volcanic rocks using the in situ buildup of cosmogenic isotopes: Ph.D. dissertation, New Mexico Inst. Mining and Tech., 167 p., 9 tables, 11 figs., 16 appendices
 1987 (Phillips, Fred M., Elmore, D., Kubik, P. W., and Gladney, Ernest S.) Measurement of cosmogenic $^{36}\text{Cl}/\text{Cl}$ in young volcanic rocks—an application of accelerator mass spectrometry in geochronology, in Nuclear instruments and methods in physics research: Amsterdam, Elsevier Scientific Publishing Co., p. 246–250, 1 table, 1 fig.; Los Alamos Natl. Lab., Rept. LA-UR-87-1370, 10 p.
 1987 (Phillips, Fred M., Smith, S., Jannik, N. O., Elmore, D., and Kubik, P. W.) Measurement of whole-rock in-situ $^{36}\text{Cl}/\text{Cl}$ buildup by accelerator mass spectrometry (AMS)—applications in geochronology (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 743
 1987 (and Shafiqullah, Muhammad) New K-Ar analyses of basalts from southern California and central New Mexico: Isochron/West, no. 48, p. 19–20, 1 table
- Lechner, T. Michael**
 1987 (and Robinson, Charles W.) Hydrothermal testing of San Juan Basin coal: New Mexico Research and Develop. Inst., Rept. 2-74-4630, 155 p., 10 tables, 2 figs., 2 appendices; Natl. Tech. Inf. Serv., Rept. PB88 162 953
- Lee, Charles G.**
 1987a Skarn and hornfels petrogenesis at the San Pedro mine, Santa Fe County, New Mexico: Ph.D. dissertation, Univ. Colorado, 304 p.; *abs. in* Dissert. Abs. Internat., 1988, v. 49, no. 3, p. 673-B
 1987b The nature and implications of garnet compositional zonation at the San Pedro mine, Santa Fe County, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 313
- Lee, Ramon G.**
see Dixon and Lee, 1987
- Lee, S. S.**
see Justice, McCormack, and Lee, 1987
- Lee, Yong Il**
 1987 (and Friedman, Gerald M.) Deep-burial dolomitization in the Ordovician Ellenburger Group carbonates, west Texas and southeastern New Mexico: Jour. Sed. Petrology, v. 57, no. 3, p. 544–557, 3 tables, 10 figs.
- LeFebvre, Valerie S.**
 1987 Foraminiferal paleoecology of the lower Niobrara Formation at Springer, New Mexico: M.S. thesis, Univ. Wyoming, 162 p.
- Lehman, Thomas M.**
 1987 Late Maastrichtian paleoenvironments and dinosaur biogeography in the Western Interior of North America: Palaeogeography, Palaeoclimatology, Palaeoecology, v. 60, nos. 3/4, p. 189–217, 11 figs.
- Leibold, Anne M.**
 1987 (Saltus, Richard W., Grauch, V. J. S., Lindsey, David A., and Almquist, Carl L.) Mineral resources of the Sabinoso Wilderness Study Area, San Miguel County, New Mexico: U.S. Geol. Survey, Bull. 1733-A, 12 p., 1 table, 5 figs., 1 appendix, 1 sheet, scale 1:50,000
- LeMay, W. J.**
 1987 New Mexico: Interstate Oil & Gas Compact & Comm. Bull., v. 1, no. 1, p. 116
- LeMone, David V.**
 1987a A preliminary analysis of the Permian (Wolfcamp) Powwow Conglomerate of the Diablo Plateau, Trans-Pecos Texas: West Texas Geol. Soc., Bull., v. 27, no. 3, p. 5–10, 1 fig.; *also in* Geology of the western Delaware Basin, west Texas and southeastern New Mexico, D. W. Powers and W. C. James, editors: El Paso Geol. Soc., Guidebook 18, p. 38–48, 1 fig.
 1987b Low-level radioactive-waste disposal sites in southwestern Hudspeth County, west Texas—the geological consideration (abs.): New Mexico Jour. Sci., v. 27, no. 2, p. 127–128
 1987c The Permian (Wolfcamp) Powwow Conglomerate of the Hueco Mountains, west Texas and south-central New Mexico (abs.): New Mexico Jour. Sci., v. 27, no. 2, p. 126–127
 1987d White Sands National Monument, New Mexico, in Rocky Mountain Section of the Geological Society of America, S. S. Beus, editor: Geol. Soc. America, Centennial Field Guide, v. 2, p. 451–454, 2 figs.
 1987a (Sandidge, Michael, Fararro, John, Kiely, James M., Bullock, Scott, and Sivils, David) Preliminary analysis of the Cretaceous sequence of the Rimrock area, Hudspeth County, Texas (abs.): New Mexico Jour. Sci., v. 27, no. 2, p. 128–129
 1987b (Sandidge, Michael, Fararro, John, Kiely, James M., Bullock, Scott, and Sivils, David) Preliminary examination of the Rimrock area, Hudspeth County, Texas, in Geology of the western Delaware Basin, west Texas and southeastern New Mexico, D. W. Powers and W. C. James, editors: El Paso Geol. Soc., Guidebook 18, p. 157–169, 2 figs.
see Cornell and LeMone, 1987; *and* Powers and LeMone, 1987
- Levy, Schon S.**
 1987 Subsurface geology of the Fenton Hill hot dry rock site, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 44, p. 1346
- Libelo, Laurence E.**
see Belkin and Libelo, 1987
- Lie, K.**
see Peterson, E. W., Lagus, and Lie, 1987a,b
- Lighty, Robin G.**
see Kirkland, Lighty, Rezak, and Tieh, 1987
- Likar, V. F.**
 1987 WIPP—a geologic nuclear waste repository nearing construction completion: Energy Prog., v. 7, no. 2, p. 80–83; *abs. in* Pollution Abs., v. 18, no. 5, p. 1402
- Lillegraven, Jason A.**
 1987 Stratigraphic and evolutionary implications of a new species of *Meniscoessus* (Multituberculata, Mammalia) from the Upper Cretaceous Williams Fork Formation, Moffat County, Colorado, in Papers in vertebrate pale-

- ontology in honor of Morton Green, J. E. Martin and G. E. Ostrander, editors: South Dakota School Mines and Tech., Spec. Paper 3, p. 46-56
see Krishtalka, West, Black, Dawson, Flynn, Turnbull, Stucky, McKenna, Bown, Golz, and Lillegraven, 1987
- Lin, Jakob P. H.**
see Kauffman, Kong, and Lin, 1987
- Lin, W. J.**
 1987 (and Manual, O. K.) Xenon decay products of extinct radionuclides in the Navajo, New Mexico well gas: *Geochemical Jour.*, v. 21, no. 5, p. 197-207, 3 figs.
- Linden, Ronald M.**
 1987 Strain energy and jointing in coal and adjacent sediments: M.S. thesis, New Mexico Inst. Mining and Tech., 123 p.
- Lindsay, E. H.**
 1987 (Johnson, N. M., Opdyke, N. D., and Butler, R. F.) Mammalian chronology and the magnetic polarity time scale, in *Cenozoic mammals of North America—geochronology and biostratigraphy*, M. O. Woodburne, editor: Berkeley, Univ. California Press, p. 269-284
see Archibald, Gingerich, Lindsay, Clemens, Krause, and Rose, 1987
- Lindsey, David A.**
see Leibold, Saltus, Grauch, Lindsey, and Almquist, 1987
- Lipman, Peter W.**
 1987a Rare-earth-element compositions of Cenozoic volcanic rocks in the southern Rocky Mountains and adjacent areas: U.S. Geol. Survey, Bull. 1668, 23 p.
 1987b Tectonic controls of Cenozoic magmatism in the southern Rocky Mountains (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 315
- Little, Gregory E.**
 1987a Subsurface analysis of the Abo Formation in the Lucero region, west-central New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg.*, Abs. with Programs, p. 9; *abs. also in New Mexico Geology*, 1988, v. 10, no. 2, p. 39
 1987b Subsurface analysis of the (Permian) Abo Formation in the Lucero region, west-central NM: M.S. thesis, New Mexico Inst. Mining and Tech., 182 p.
- Llavona, Ramon**
see Lueth, Goodell, Llavona, Mertig, and Sharp, 1987
- Lockhart, Ronald J.**
 1987 (and Logan, Jay W.) Site investigation for USAF weapon effects tests: *Assoc. Eng. Geologists, Bull.*, v. 24, no. 1, p. 83-92, 1 table
- Lockley, Martin G.**
 1987 Dinosaur trackways, in *Dinosaurs past and present—Volume 1*, S. J. Czerkas and E. C. Olsen, editors: Natural History Museum, Los Angeles, California, and Seattle, Univ. Washington Press, p. 80-95, 1 table
see Conrad, Lockley, and Prince, 1987
- Logan, Jay W.**
see Lockhart and Logan, 1987
- Lohmann, Kyger C.**
 1987 Geochemical patterns of meteoric diagenetic systems and their application to studies of paleokarst, in *Paleokarst*, N. P. James and P. W. Choquette, editors: New York, Springer-Verlag, p. 58-80
- Long, Carl L.**
see Soulliere, Long, and Tuftin, 1987
- Looff, Kurt M.**
 1987 Paleohydraulic interpretation of upper Abo paleochannel types in central and west-central New Mexico: M.S. thesis, Univ. New Mexico, 133 p.
- Loring, Anne K.**
 1987 (Clemons, Russell E., and Armstrong, Dale G.) Petrologic, paleomagnetic, and structural evidence of a Paleozoic rift system in Oklahoma, New Mexico, Colorado, and Utah—discussion: *Geol. Soc. America, Bull.*, v. 99, no. 2, p. 317-318, 1 fig.
- Los Alamos National Laboratory**
 1987a Environmental surveillance at Los Alamos during 1986: *Los Alamos Natl. Lab., Rept. LA-10992-ENV*, 286 p., 118 tables
 1987b Environmental surveillance of low-level radioactive waste management areas at Los Alamos during 1985: *Los Alamos Natl. Lab., Rept. LA-UR-87-0139*, 95 p.
- Loucks, Robert R.**
 1987 (and Sommer, Michael A., II) Hydrodynamics in boiling hydrothermal upflow zones (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1326
- Louden, Robert J.**
see Neuhauser, Lucas, de Albuquerque, Loudon, Hayden, Kietzke, Oakes, and Des Marais, 1987
- Louderbough, Ellen T.**
see Bradshaw and Louderbough, 1987
- Love, David W.**
 1987 Climatic, tectonic, and geomorphic factors affecting late Cenozoic development of tributaries of the Rio Grande from the Colorado Plateau (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 749-750
 1987 (Gutjahr, Allan, and Robinson-Cook, Sylveen) Location-dependent sediment sorting in bedforms under waning flow in the Rio Grande, central New Mexico, in *Recent developments in fluvial sedimentology*, F. C. Ethridge, R. M. Flores, and M. D. Harvey, editors: *Soc. Econ. Paleontologists and Mineralogists, Spec. Publ. 39*, p. 37-47, 2 tables, 9 figs.
 1987 (Reimers, R. F., Hawley, John W., Johnpeer, Gary D., and Bobrow, Danny J.) Summary of geotechnical investigations near Española, New Mexico, 1984-1985, in *Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico*, C. Menges, editor: *Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf.*, p. 133-157, 17 figs.
see Menges, Dethier, Love, and Karas, 1987
- Love, Jane C.**
 1987 (Hjellming, Carol A., and Boyle, Darcy C.) Bibliography of New Mexico geology and mineral technology 1981-1983: *New Mexico Bureau Mines Mineral Resources, Bull. 110*, 167 p.
- Lovering, T. G.**
 1987 (and Heddal, J. A.) Trace elements in magnetic concentrates from stream sediments in southwestern New Mexico—a potential tool for reconnaissance geochemical exploration in arid lands: *U.S. Geol. Survey, Bull. 1566*, 31 p., 8 tables, 5 figs.
- Lowenstein, Tim K.**
 1987a Depositional cycles in the Permian Salado Formation, southeastern New Mexico, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 124-132, 3 figs.
 1987b Post burial alteration of the Permian Rustler Formation evaporites, WIPP site, New Mexico—textural, stratigraphic, and chemical evidence: *New Mexico Health and Environ. Dept., Environ. Improvement Div., Environ. Evaluation Group, Rept. EEG-36*, 54 p., 6 figs., 24 pls.; *Natl. Tech. Inf. Serv., Rept. DE87 010 504*; *abs. in Government Reports Announcements and Index*, v. 87, no. 24, p. 284
 1987 (and Spencer, Ronald J.) Syndepositional origin of potash evaporites in Permian Salado Formation, New

Mexico—fluid inclusion and textural evidence (abs.): Soc. Econ. Paleontologists and Mineralogists, Midyear Mtg., Abs. with Programs, v. 4, p. 50

see Casas and Lowenstein, 1987

Lozinsky, Richard P.

1987a Cross section across the Jornada del Muerto, Engle, and northern Palomas Basins, south-central New Mexico: *New Mexico Geology*, v. 9, no. 3, p. 55–57, 63, 1 table, 3 figs.

1987b Sandstone petrology and provenance of the Santa Fe Group (Oligo–Pleistocene) in the southwestern Albuquerque Basin, central New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs*, p. 19; *abs. also in New Mexico Geology*, 1988, v. 10, no. 2, p. 41

1987c Structure, stratigraphy, and depositional history of the Albuquerque Basin, central New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 750

Lucas, Spencer G.

1987a American mastodont from the Sandia Mountains, New Mexico: *New Mexico Jour. Sci.*, v. 27, no. 1, p. 29–32, 1 fig.

1987b Black Mesa mining district, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 14–15

1987c Todilto as a formation, not a member of the Wankah Formation, Middle Jurassic of northern New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs*, p. 14; *abs. also in New Mexico Geology*, 1988, v. 10, no. 2, p. 40

1987 (Allen, Bruce D., and Hayden, Steven N.) Type section of the Triassic Correo Sandstone Bed, Chinle Formation, Cibola County, New Mexico: *New Mexico Jour. Sci.*, v. 27, no. 2, p. 87–93, 2 figs., 1 appendix

1987 (Holbrook, John, Sullivan, Robert M., and Hayden, Steven N.) Dinosaur footprints from the Cretaceous Pajarito Formation, Harding County, New Mexico, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 31–36

1987a (and Hunt, Adrian P.) Stratigraphy of the Anton Chico and Santa Rosa Formations, Triassic of east-central New Mexico: *Arizona–Nevada Acad. Sci., Jour.*, v. 22, no. 1, p. 21–33, 6 figs., 1 appendix

1987b (and Hunt, Adrian P.) Supplemental road log 2, to Black Mesa State Park, Oklahoma, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 56–57, 4 figs.

1987c (and Hunt, Adrian P.) Supplemental road log 3, to Labrier Butte, Oklahoma, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 58, 3 figs.

1987d (and Hunt, Adrian P.) Supplemental road log 4, to Peacock Canyon, New Mexico, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 59–60, 1 fig.

1987e (and Hunt, Adrian P., editors) *Northeastern New Mexico*: *New Mexico Geol. Soc., Guidebook 38th field conf.*, 354 p.

1987a (Hunt, Adrian P., and Hayden, Steven N.) The Triassic System in the Dry Cimarron Valley, New Mexico, Colorado, and Oklahoma, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 97–117, 14 figs., 2 appendices

1987b (Hunt, Adrian P., and Hayden, Steven N.) Triassic stratigraphy in the Dry Cimarron Valley, New Mexico, Colorado, and Oklahoma (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 316

1987c (Hunt, Adrian P., and Hayden, Steven N.) Type section of Exeter Member of Entrada Sandstone, Jurassic of northeastern New Mexico, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 17–22

1987 (Hunt, Adrian P., and Kues, Barry S.) Stratigraphic nomenclature and correlation chart for northeastern New Mexico, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 351–354, 1 fig.

1987 (Hunt, Adrian P., Kues, Barry S., and Holbrook, John) First-day road log, from Clayton to Seneca, Moses, Mexhoma, Kenton, Wedding Cake Butte, Travesser Park, Clayton Lake and back to Clayton, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 1–22, 1 table, 38 figs.

1987 (Hunt, Adrian P., Kues, Barry S., Trauger, Frederick D., and Holbrook, John) Second-day road log, from Clayton to Clapham, Miera, Bueyeros, Mosquero, Roy, Yates, and back to Clayton, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 23–40, 24 figs.

1987 (Hunt, Adrian P., and Martini, Kim) Newberry's locality for Cretaceous plant fossils at Whetstone Creek, New Mexico: *New Mexico Jour. Sci.*, v. 27, no. 2, p. 95–98, 1 fig.

1987 (Mateer, Niall J., Hunt, Adrian P., and O'Neill, F. Michael) Dinosaurs, the age of the Fruitland and Kirtland Formations, and the Cretaceous–Tertiary boundary in the San Juan Basin, New Mexico, in *The Cretaceous–Tertiary boundary in the San Juan and Raton Basins, New Mexico and Colorado*, J. E. Fassett and J. K. Rigby, Jr., editors: *Geol. Soc. America, Spec. Paper 209*, p. 35–50, 6 figs., 1 appendix

1987 (and Sullivan, Robert M.) Paleocene Crocodilia from the San Juan Basin, New Mexico (abs.): *Jour. Vertebrate Paleontology*, v. 7, supplement to no. 3, p. 19A

see Fassett, Lucas, and O'Neill, 1987; Hunt and Lucas, 1987a–e; Hunt, Lucas, and Kues, 1987a–c; Kues, B. S., and Lucas, 1987a,b; Martini, Hunt, and Lucas, 1987; Neuhäuser, Lucas, de Albuquerque, Loudon, Hayden, Kietzke, Oakes, and Des Marais, 1987; and Sullivan, R. M., and Lucas, 1987

Lucia, F. Jerry

see Fogg and Lucia, 1987; and Hinrichs, Lucia, and Mathis, 1987

Luckey, Richard R.

1987 (and Stephens, Diane M.) Effect of grid size on digital simulation of ground-water flow in the southern High Plains of Texas and New Mexico: *U.S. Geol. Survey, Water-resources Inv., Rept. 87–4085*, 31 p., 5 tables
see Weeks, J. B., and Luckey, 1987

Lueth, Virgil W.

1987 Mineralogic, petrologic, and fluid inclusion comparison of copper skarns in the Silver City mining region, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 316

1987 (Goodell, Philip C., Llavona, Ramon, Mertig, Heidi, and Sharp, William) Tellurium minerals of the Organ district, Doña Ana County, New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Mineral Symp.; abs. also in New Mexico Geology*, 1988, v. 10, no. 1, p. 18

Lumpkin, Gregory R.

1987 (and Chakoumakos, Bryan C.) Crystallization path and economic mineralogy of the Harding pegmatite, Taos County, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 751

see Chakoumakos and Lumpkin, 1987

Lundin, Erik A.

see Dickinson, Klute, Hayes, Janecke, Lundin, McKittrick, and Olivares, 1987

Lundy, J.

1987 (Hauser, E., Brown, L., Oliver, J., and Kaufman, S.) Reflection character of Proterozoic crust—COCORP results from the Colorado Plateau (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 16, p. 347

Lutonsky, Tony

see de Gruyter, Lutonsky, Vincent, and Berger, 1987; and DeLong, Lutonsky, Berger, de Gruyter, and Vincent, 1987

Lysne, P.

see Goff, Nielson, Gardner, Hulen, Lysne, Shevenell, and Rowley, 1987

Ma, Xin-Pei

see Roeder, MacArthur, Ma, Palmer, and Mariano, 1987

Maassen, Larry W.

see Gardner, Goff, Goff, Maassen, Mathews, Wachs, and Wilson, 1987

MacArthur, Duncan

see Roeder, MacArthur, Ma, Palmer, and Mariano, 1987

Macdonald, J. R.

see Tedford, Skinner, Fields, Rensberger, Whistler, Galusha, Taylor, Macdonald, and Webb, 1987

Machette, Michael N.

1987a Changes in long-term versus short-term slip rates in an extensional environment, in *Directions in paleoseismology—proceedings of the 39th conference*, A. J. Crone and E. M. Omdahl, editors: U.S. Geol. Survey, Open-file Rept. 87-673, p. 228-238, 6 figs.

1987b Neotectonics of the Rio Grande rift, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 754

1987c Preliminary assessment of paleoseismicity at White Sands Missile Range, southern New Mexico—evidence for recency of faulting, fault segmentation, and repeat intervals for major earthquakes in the region: U.S. Geol. Survey, Open-file Rept. 87-444, 46 p., 2 tables, 19 figs., 1 appendix

1987d Preliminary assessment of Quaternary faulting near Truth or Consequences, New Mexico: U.S. Geol. Survey, Open-file Rept. 87-652, 40 p., 1 table, 13 figs.

see Hawley and Machette, 1987

Mack, Greg H.

1987a Mid-Cretaceous (late Albian) change from rift to retroarc foreland basin in southwestern New Mexico: *Geol. Soc. America, Bull.*, v. 98, no. 5, p. 507-514, 1 table, 5 figs.

1987b Tectonic, eustatic, and climatic control on Cretaceous (Aptian to Turonian) sedimentation in southwestern New Mexico: *Arizona Geol. Soc., Digest*, v. 18, p. 371-379

1987c Tectonics and sedimentation of mid-Cretaceous (Aptian to Turonian) rocks in southwestern New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 754

Mackinnon, Ian D. R.

see Smith, K. L., Mackinnon, and Sowards, 1987

MacMillan, John R.

1987 Paleocurrent and facies analysis of the Abo Formation along a NW-SE surface transect of New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs*, p. 8; abs. also in *New Mexico Geology*, 1988, v. 10, no. 2, p. 39

MacRae, Neil D.

see Muir, Bancroft, MacRae, and Metson, 1987

Madrid, Raul J.

see Murchey, Madrid, and Poole, 1987

Maes, Max N.

see Purtymun, Ferenbaugh, Becker, Williams, and Maes, 1987; Purtymun, Peters, Buhl, Maes, and Brown, 1987; and Purtymun, Stoker, and Maes, 1987

Magee, Robert W.

1987 (Moore, John McMahon, and Brunner, Jake) Thematic mapper data applied to mapping hydrothermal alteration in southwest New Mexico, in *Proceedings of the fifth thematic conference on remote sensing for exploration geology—mineral and energy exploration—technology for a competitive world*, vol. 1, J. J. Cook, chairperson: *Environ. Res. Inst. Mich., Ann Arbor, Michigan*, p. 373-382, 1 table

Mahood, Gail

see Gans, Mahood, and Schermer, 1987

Maier, R. D.

1987 Thrust faults in east-central New Mexico (abs.): *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 2, p. 241-242

Majer, E. L.

see Morrison, Majer, and Tsang, 1987

Mallett, Mark W.

1987 Largest U.S. gas processing plant begins operations: *Oil and Gas Jour.*, v. 85, no. 3, p. 33-37, 2 tables, 2 figs.

Malzahn, Mark V.

see Dreesen, Malzahn, Fehler, and Dash, 1987; Fehler, Dreesen, and Malzahn, 1987; Kelkar, Dash, Malzahn, and Hendron, 1987; and Kelkar and Malzahn, 1987

Mamet, Bernard L.

see Armstrong and Mamet, 1987

Manger, Walter L.

1987 (Sutherland, Patrick K., and Clopine, William W.) Morrowan-Atokan boundary relations, type "Derryan" section, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 3, p. 173

see Clopine, Manger, and Sutherland, 1987

Manley, Curtis R.

1987 (and Fink, Jonathan H.) Internal texture of rhyolite flows as revealed by research drilling: *Geology*, v. 15, no. 6, p. 549-552, 2 figs.

Manley, Kim

1987 (Scott, Glenn R., and Wobus, Reinhard A.) Geologic map of the Aztec 1° × 2° quadrangle, northwestern New Mexico and southern Colorado: U.S. Geol. Survey, Misc. Inv. Series, Map I-1730, 1 sheet, scale 1:250,000

Mann, Roger

1987 (Sparling, Edward, and Young, Robert A.) Regional economic growth from irrigation development—evidence from northern High Plains-Ogallala groundwater source: *Water Resources Research*, v. 23, no. 9, p. 1711-1716, 4 tables

Manrique, Jose

1987 (and Campbell, Andrew) A fluid inclusion study of the Waldo-Graphic mine, Magdalena district, New Mexico: *New Mexico Geology*, v. 9, no. 1, p. 1-6, 10, 1 table, 6 figs.

Manual, O. K.

see Lin and Manual, 1987

Mariano, Anthony N.

see Roeder, MacArthur, Ma, Palmer, and Mariano, 1987

Marion, Giles M.

see Schlesinger, Fonteyn, and Marion, 1987

Markgraf, Vera

1987 (and Bradbury, J. Platt) San Augustin Plains, New Mexico, a 1.6 million year long paleoenvironmental record (abs.): *Internat. Union for Quaternary Research, 12th Internat. Congress, July 31-August 9, 1987, Ottawa, Ontario, Canada, Program and Abs.*, p. 220

- Marr, J.**
see Nash, Kreuz, and Marr, 1987
- Marshall, D. H.**
1987 Reducing sediment sampling frequency at stream-flow gaging station Rio Grande at Otowi Bridge near San Ildefonso, New Mexico, *in* Proceedings of the Advanced seminar on sedimentation, G. D. Glysson, editor: U.S. Geol. Survey, Circ. 953, p. 4–6
- Marston, Richard A.**
1987 (Gillespie, B. Marcus, von Finger, Kevin, and Nickling, William G.) Controlled field experiments to assess maneuver impacts on aeolian processes and soil compaction (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 761
- Martin, Dennis C.**
1987 Application of rock reinforcement and artificial support in surface mines: Internat. Soc. for Rock Mechanics, 6th Congress, Montreal, Quebec, Canada, August 30–September 3, 1987, Proc., v. 6, no. 1, p. 437–443, 1 table
- Martin, F. David**
1987 Overview of oil and gas production and implications for enhanced recovery in New Mexico: Interstate Oil & Gas Compact & Comm. Bull., v. 1, no. 2, p. 15–42, 19 tables, 14 figs.
1987 (and Kuntamukkula, Murty) Flow characteristics and injectivity behavior of water-soluble polymers—final report: New Mexico Research and Develop. Inst., Rept. 2–74–4327, 146 p.
- Martinez, Mario**
see Jiracek, Martinez, Rodriguez, Romo, and Fernandez, 1987; and Rodriguez, Martinez, Fernandez, Romo, and Jiracek, 1987
- Martini, L. K.**
1987 (Hunt, Adrian P., and Lucas, Spencer G.) Fossil vertebrates from the Menefee Formation (Cretaceous), Sandoval County, New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 23; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 41–42
see Lucas, Hunt, and Martini, 1987
- Marvin, Richard F.**
1987 (Naeser, C. W., Bikerman, Michael, Mehnert, H. H., and Ratté, James C.) Isotopic ages of post-Paleocene igneous rocks within and bordering the Clifton 1° × 2° quadrangle, Arizona–New Mexico: New Mexico Bureau Mines Mineral Resources, Bull. 118, 63 p., 10 tables, 5 figs., 1 sheet
- Mast, Richard F.**
see Masters and Mast, 1987
- Masters, Charles D.**
1987 (and Mast, Richard F.) Geological setting of U.S. fossil fuels: Episodes, v. 10, no. 4, p. 308–313, 5 figs.
- Matalucci, R. V.**
1987 The integrated in situ testing program for the Waste Isolation Pilot Plant (WIPP): Sandia Natl. Lab., Rept. SAND86–2716; Natl. Tech. Inf. Serv., Rept. DE87 008 077
- Mateer, Niall J.**
1987a Regional correlation of Dakota Group discontinuities—Front Range, New Mexico to Wyoming (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 319
1987b The Dakota Group of northeastern New Mexico and southern Colorado, *in* Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 223–236, 10 figs., 1 appendix
see Lucas, Mateer, Hunt, and O'Neill, 1987
- Matheney, Ronald K.**
see Abitz and Matheney, 1987
- Mathews, K.**
see Gardner, Goff, Goff, Maassen, Mathews, Wachs, and Wilson, 1987
- Mathis, Robert L.**
see Hinrichs, Lucia, and Mathis, 1987
- Matsunaga, Isao**
see Robinson, B. A., Aguilar, Kanaori, Trujillo, Counce, Birdsell, and Matsunaga, 1987
- Mattick, Julie L.**
1987 (Duval, Thomas A., and Phillips, Fred M.) Quantification of groundwater recharge rates in New Mexico using bomb ³⁶Cl, bomb ³H, and chloride as soil-water tracers: New Mexico State Univ., Water Resources Research Inst., Rept. WRR1–220, 184 p.
- Mattison, G. D.**
see Nelson, D. O., Nelson, Reeves, and Mattison, 1987
- Maxwell, Charles H.**
see Foord, Hlava, Fitzpatrick, and Maxwell, 1987
- Mayden, Richard L.**
1987 Pleistocene glaciation and historical biogeography of North American central-highland fishes, *in* Quaternary environments of Kansas, W. C. Johnson, editor: Kansas Geol. Survey, Guidebook Series 5, p. 141–151, 9 figs.
- Mayeda, Toshiko K.**
see Goodrich, Keil, Berkley, Laul, Smith, Wacker, Clayton, and Mayeda, 1987
- Mayer, Anton B.**
1987a Laramide and Tertiary structures of the Salado Mountains, Sierra County, New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 34; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 43
1987b Structural and volcanic geology of the Salado Mountains–Garcia Peak area, Sierra County, New Mexico: M.S. thesis, New Mexico State Univ., 61 p.
- Mazzullo, J. M.**
see Mazzullo, L. J., and Mazzullo, 1987
- Mazzullo, Louis J.**
1987 Stratigraphy and depositional history, Bone Spring Formation, Lea County, New Mexico (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 2, p. 242
1987 (and Arrant, B. G.) Scharb (Wolfcamp) field: West Texas Geol. Soc., Bull., v. 27, no. 2, p. 22
1987 (and Mazzullo, J. M.) Geology and clay mineralogy of the Morrow formation, southeastern New Mexico: SPE Formation Evaluation, v. 2, no. 2, p. 143–149, 1 table, 7 figs.
1987 (and Reid, A. M., II) Stratigraphy of the Bone Spring Formation (Leonardian) and depositional setting in the Scharb field, Lea County, New Mexico, *in* The Leonardian facies in west Texas and SE New Mexico and guidebook to the Glass Mountains, west Texas, D. Cromwell and L. J. Mazzullo, editors: Soc. Econ. Paleontologists and Mineralogists, Permian Basin Sec., Publ. 87–27, p. 107–111
see Cromwell and Mazzullo, 1987; and Mazzullo, J. M., Reid, and Mazzullo, 1987
- Mazzullo, S. J.**
1987 (and Reid, A. M.) Basinal Lower Permian facies, Permian Basin—pt. 2, depositional setting and reservoir facies of Wolfcampian–lower Leonardian basinal carbonates: West Texas Geol. Soc., Bull., v. 26, no. 8, p. 5–10, 3 figs.
1987 (Reid, A. M., and Mazzullo, Louis J.) Basinal Lower Permian facies, Permian Basin—pt. 1, stratigraphy of the Wolfcampian–Leonardian boundary: West Texas Geol. Soc., Bull., v. 26, no. 7, p. 5–9, 4 figs.
- McAda, Douglas P.**
1987 (and Shelton, Shareen G.) Hydrologic data for the San Juan and Animas River valleys in the Farmington,

- Aztec, Bloomfield, and Cedar Hill areas, San Juan County, New Mexico: U.S. Geol. Survey, Open-file Rept. 87-0385, 18 p., 4 tables, 6 figs.
- McCabe, Marcella R.**
1987 The coal deposits of the Lee Ranch coal mine, McKinley County, New Mexico: M.S. thesis, Univ. Texas (El Paso)
- McCaslin, John C.**
1987a After lull, keep an eye on the Tucumcari: Oil and Gas Jour., v. 85, no. 9, p. 46
1987b Development keeps San Juan Basin busy: Oil and Gas Jour., v. 85, no. 23, p. 71, 1 fig.
1987c Rockies activities at low ebb, but few strikes are encouraging: Oil and Gas Jour., v. 85, no. 23, p. 36-38, 2 figs.
1987d Shell drilling in remote New Mexico area: Oil and Gas Jour., v. 85, no. 47, p. 82, 1 fig.
- McCauley, John F.**
1987 (and Rinker, J. N.) A workshop on desert processes, September 24-28, 1984—report on the conference: U.S. Geol. Survey, Circ. 989, 21 p.
- McCord, James T.**
1987 (and Stephens, Daniel B.) Lateral moisture flow beneath a sandy hillslope without an apparent impending layer: Hydrological Processes, v. 1, no. 3, p. 225-238, 2 tables
- McCormack, M. D.**
see Justice, McCormack, and Lee, 1987
- McCurry, Michael O.**
see Kiely, James, Hoover, and McCurry, 1987; and Monger, Daugherty, McCurry, and Earl, 1987
- McGarvin, Thomas G.**
1987 The 1887 Sonoran earthquake—it wasn't our fault: Fieldnotes, v. 17, no. 2, p. 1-2, 2 figs.
- McGrath, Daniel B.**
1987 (and Hawley, John W.) Geomorphic evolution and soil-geomorphic relationships in the Socorro area, central New Mexico, *in* Guidebook to the Socorro area, New Mexico, V. T. McLemore and M. R. Bowie, compilers: New Mexico Bureau Mines Mineral Resources, p. 55-67, 8 tables, 6 figs.
- McGurk, Brian E.**
see Stone and McGurk, 1987
- McIntosh, William C.**
1987 Correlation of ignimbrites using paleomagnetism and $^{40}\text{Ar}/^{39}\text{Ar}$ dating (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 29; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 43
see Cather, McIntosh, and Chapin, 1987; and Chapin, C. E., Cather, and McIntosh, 1987
- McKallip, Curtis, Jr.**
1987 New Mexico's Newkirk field: Oil and Gas Jour., v. 85, no. 27, p. 56-57, 2 figs.
- McKenna, M. C.**
see Krishtalka, West, Black, Dawson, Flynn, Turnbull, Stucky, McKenna, Bown, Golz, and Lillegraven, 1987
- McKibben, Michael A.**
see Gonzalez and McKibben, 1987
- McKittrick, Mary A.**
see Dickinson, Klute, Hayes, Janecke, Lundin, McKittrick, and Olivares, 1987
- McLaughlin, Dennis**
1987 (and Johnson, William K.) Comparison of three groundwater modeling studies: Jour. Water Resources Planning and Management, v. 113, no. 3, p. 405-421, 1 table
- McLemore, Virginia T.**
1987a A cathodoluminescence study of the Lemitar carbonatites and associated fenitization, Socorro County, New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 46; *abs. also in* New Mexico Geology, 1988, v. 10, no. 2, p. 45
1987b Geology and regional implications of carbonatites in the Lemitar Mountains, central New Mexico: Jour. Geology, v. 95, no. 2 p. 255-270, 3 tables, 11 figs.
1987c Petrologic, paleomagnetic, and structural evidence of a Paleozoic rift system in Oklahoma, New Mexico, Colorado, and Utah—discussion: Geol. Soc. America, Bull., v. 99, no. 2, p. 315-316, 1 table, 1 fig.
1987 (and Barker, James M.) Some geological applications of cathodoluminescence—examples from the Lemitar Mountains and Riley travertine, Socorro County, New Mexico: New Mexico Geology, v. 9, no. 2, p. 37-40, 6 figs.
1987 (and Bowie, Mark R., compilers) Guidebook to the Socorro area, New Mexico: New Mexico Bureau Mines Mineral Resources, 75 p.
1987a (Bowie, Mark R., and Hawley, John W.) Road log from San Antonio to Bosque del Apache National Wildlife Refuge and return to Socorro, *in* Guidebook to the Socorro area, New Mexico, V. T. McLemore and M. R. Bowie, compilers: New Mexico Bureau Mines Mineral Resources, p. 38-39
1987b (Bowie, Mark R., and Hawley, John W.) Road log from Socorro to San Antonio, Carthage, and Bingham Post Office, *in* Guidebook to the Socorro area, New Mexico, V. T. McLemore and M. R. Bowie, compilers: New Mexico Bureau Mines Mineral Resources, p. 40-43, 1 fig.
1987 (and Modreski, Peter J.) Mineralogy of the Lemitar carbonatites, Socorro County, New Mexico—a petrographic, cathodoluminescence, and electron microprobe study (abs.): New Mexico Inst. Mining and Tech., New Mexico Mineral Symp.; *abs. also in* New Mexico Geology, 1988, v. 10, no. 1, p. 18-19
1987 (and North, Robert M.) Metallic mineral deposits in Colfax and Union Counties, northeastern New Mexico, *in* Northeastern New Mexico, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 323-329, 2 tables, 2 figs.
see Bowie and McLemore, 1987; Chamberlin, McLemore, Bowie, and Hawley, 1987; Chamberlin, McLemore, Bowie, and Post, 1987; Gabelman, Robertson, and McLemore, 1987; Hawley, McLemore, and Bowie, 1987a,b; and North and McLemore, 1987a,b
- McLin, S. G.**
1987 Effects of irrigation practices on stream-connected phreatic aquifer systems, *in* Ground water quality and agricultural practices, D. M. Fairchild, editor: Chelsea, Michigan, Lewis Publishers Inc., p. 73-90, 4 tables
- McNeil, Robert**
see Johnpeer, Robinson-Cook, Bobrow, Barrie, Kelliher, and McNeil, 1987
- McQuillan, Dennis M.**
1987 Effects of cosolvency on the ground-water migration of hydrophobic organic contaminants: Am. Geophys. Union (EOS), Trans., v. 68, no. 44, p. 1282
see Gallaher, McQuillan, Chavez, Hull, and Eidson, 1987
- McTigue, D. F.**
1987a (and Nowak, E. J.) Brine transport in the bedded salt of the Waste Isolation Pilot Plant (WIPP)—field measurements and a Darcy flow model, *in* Scientific basis for nuclear waste management XI, M. J. Apted and R. E. Westerman, editors: Materials Research Soc., Symp. Proc., p. 209-218
1987b (and Nowak, E. J.) Brine transport studies in the bedded salt of the Waste Isolation Pilot Plant (WIPP): Sandia Natl. Lab., Rept. SAND87-1274C, 10 p.; Natl. Tech. Inf. Serv., Rept. DE88 003 994
see Nowak and McTigue, 1987

Mead, Jim I.

see Agenbroad and Mead, 1987; and Graham and Mead, 1987

Mebrate, Asseta

1987 Long-jawed gomphotheres of North America: Ph.D. dissertation, Univ. Kansas, 415 p.; *abs. in* Dissert. Abs. Internat., 1988, v. 49, no. 5, p. 1485-1486

Medlin, Antoinette L.

1987 (Krohn, Kathleen K., and Hunter, Judy F.) National coal resources data system—components, capabilities and applications (*abs.*): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 9, p. 1108

Mehnert, H. H.

see Marvin, Naeser, Bikerman, Mehnert, and Ratté, 1987

Meile, M. J.

see Jiracek, Curtis, Meile, and Vozoff, 1987

Meinert, Lawrence D.

1987 Skarn zonation and fluid evolution in the Groundhog mine, Central mining district, New Mexico: Econ. Geology, v. 82, no. 3, p. 523-545, 8 tables, 14 figs.

Meissner, F. F.

1987 Mechanisms and patterns of gas generation, storage, expulsion-migration, and accumulation associated with coal measures, Green River and San Juan Basins, Rocky Mountain region, USA, in Migration of hydrocarbons in sedimentary basins: Editions Technip, IFP Research Conf. on Exploration, Carcans-Maubisson, France, June 15-19, 1987, p. 79-112

Melas, Faye F.

1987 (and Friedman, Gerald M.) Pisoids in the Jurassic Smackover Formation (Alabama-Florida)—evidence of marine vadose diagenesis: Gulf Coast Assoc. Geol. Soc., Trans., v. 37, p. 405-414; *abs. in* Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 9, p. 1119

Menges, Christopher M.

1987a Temporal and spatial segmentation of Pliocene-Quaternary fault rupture along the western Sangre de Cristo mountain front, northern New Mexico, in Directions in paleoseismology—proceedings of the 39th conference, A. J. Crone and E. M. Omdahl, editors: U.S. Geol. Survey, Open-file Rept. 87-673, p. 203-222, 6 figs.

1987b Temporal and spatial segmentation of Plio-Quaternary fault rupture along the base of the western Sangre de Cristo mountain front, northern New Mexico, in Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico, C. Menges, editor: Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf., p. 71-93, 7 figs.

1987c The form and evolution of bedrock facet hillslopes along the tectonically active mountain front of the western Sangre de Cristo Mts., northern New Mexico (*abs.*): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 770-771

1987d Time-space segmentation of late Quaternary rupture along the western Sangre de Cristo mountain front, north-central New Mexico (*abs.*): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 321

1987e (editor) Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico: Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf., 213 p.

1987 (Dethier, David P., Love, David W., and Karas, Paul A., compilers) Road log from Santa Barbara Campground to Jack's Creek Campground, via Truchas, Chimayo, Española, White Rock, Santa Fe, and Pecos, NM, in Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico, C. Menges, editor: Friends of the Pleis-

tocene—Rocky Mtn. Cell, Guidebook 1987 field conf., p. 27-42, 1 fig.

1987 (Kelson, Keith I., and Wells, Stephen G., compilers) Road log from Rio Grande Wild and Scenic River Recreation Area to Santa Barbara Campsite, via Costilla, Questa, Taos area, Dixon, and Peñasco, in Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico, C. Menges, editor: Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf., p. 5-26, 1 fig., 2 appendices

1987 (and Wells, Stephen G.) Late Quaternary fault scarps, mountain front landforms, and Plio-Quaternary rupture segmentation along a range-front normal fault zone, Sangre de Cristo Mts., New Mexico (*abs.*): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 770
see Wells, Kelson, and Menges, 1987; and Wells and Menges, 1987

Mercer, Jerry W.

1987 Compilation of hydrologic data from drilling the Salado and Castile Formations near the Waste Isolation Pilot Plant (WIPP) site in southeastern New Mexico: Sandia Natl. Lab., Rept. SAND86-0954, 35 p., 12 tables, 3 figs.; *abs. in* Sel. Water Resources Abs., v. 20, no. 8, p. 128

1987 (Beauheim, Richard L., Snyder, Richard P., and Fairer, George M.) Basic data report for drilling and hydrologic testing of drillhole DOE-2 at the Waste Isolation Pilot Plant (WIPP) site: Sandia Natl. Lab., Rept. SAND86-0611, 313 p., 5 tables, 31 figs., 6 appendices

Merewether, E. Allen

1987 Plays for oil and gas in the Raton Basin, south-central Colorado and northeastern New Mexico: U.S. Geol. Survey, Open-file Rept. 87-450A, 23 p., 3 tables, 9 figs.

Mertig, Heidi

see Lueth, Goodell, Llavona, Mertig, and Sharp, 1987

Meshik, A. P.

see Shukolyukov, Meshik, Pravdivtseva, and Verkhovskiy, 1987; and Shukolyukov, Meshik, Pravdivtseva, Verkhovskiy, and Kryuchkova, 1987

Metson, J. B.

see Muir, Bancroft, MacRae, and Metson, 1987

Meunier, Jean Dominique

1987 (Landais, P., Monthieux, M., and Pagel, Maurice) Oxidation reduction processes in the genesis of the uranium-vanadium tabular deposits of the Cottonwood Wash mining area (Utah, U.S.A.)—evidence from petrological study and organic matter analysis: Bull. Minéral., v. 110, p. 145-156

Meyers, William J.

see Hemming, Meyers, and Grams, 1987

Michael, Jacqueline

1987 (and Jordana, Mark J.) Nationwide distribution of Ra-228, Ra-226, Rn-222, and U in groundwater, in Radon, radium, and other radioactivity in ground water—hydrogeologic impact and application to indoor airborne contamination, B. Graves, editor: Chelsea, Michigan, Lewis Publishers, Inc. and Natl. Water Well Assoc. (Proc. of Natl. Water Well Assoc. Conf., April 7-9, 1987, Somerset, New Jersey), p. 227-240, 2 tables, 4 figs.

Michalski, Thomas C.

1987 (and Richards, Diana L.) Catalog of Arizona and New Mexico cores housed at the USGS Core Research Center, Denver, Colorado: U.S. Geol. Survey, Open-file Rept. 87-369, 13 p.

see Richards and Michalski, 1987

Mikesh, David L.

1987 Developing naturally fractured reservoirs—field development vs. reserves development (*abs.*): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 8, p. 1012

Mickey, Vernetta

1987 High-tech approach to Abo success: Southwest Oil World, v. 36, no. 3, p. 13-14

Millard, Gloria Chavez

1987 (Pei, P., Felicetti, S., Gray, C., Thompson, D., and Phelan, J.) 1986 environmental monitoring report: Sandia Natl. Lab., Rept. SAND87-0606; Natl. Tech. Inf. Serv., Rept. DE87 010 535

Miller, D. A.

see Petersen, Connors, Miller, Day, and Gardner, 1987

Miller, James R.

see Dreesen, Miller, and Nicholson, 1987; and Murphy, Hendron, Miller, and Dreesen, 1987

Miller, R. D.

1987 Helium resources of the United States, 1987: U.S. Bureau Mines, Helium Field Operations, Amarillo, Texas, Rept. BUMINES-1C-9189, 24 p.; Natl. Tech. Inf. Serv., Rept. PB89 112 312

Miller, Roger S.

see Kernodle, Miller, and Scott, 1987

Minier, Jeffrie D.

1987 A geothermal study in west-central New Mexico: Ph.D. dissertation, New Mexico Inst. Mining and Tech., 229 p., 10 tables, 16 figs., 3 appendices

1987 (and Reiter, Marshall A.) Geothermal studies on the southern periphery of the Colorado Plateau in west-central New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 774

see Reiter, Barroll, Minier, and Clarkson, 1987

Mitchell, David L.

1987 Influence of regional syndepositional faulting on sedimentation patterns and stratigraphic hydrocarbon traps in Cretaceous strata, San Juan Basin, New Mexico: M.S. thesis, Purdue Univ., 182 p.

Modreski, Peter J.

1987 Ultraviolet fluorescence of minerals—examples from New Mexico: New Mexico Geology, v. 9, no. 2, p. 25-30, 42, 18 figs.

1987 (and Ratté, James C.) Magnesioferrite, hematite, and other minerals from Old Horse Springs, Catron County, New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Mineral Symp.; abs. also in New Mexico Geology, 1988, v. 10, no. 1, p. 17

see Bohor, Modreski, and Foord, 1987; McLemore and Modreski, 1987; and Ratté and Modreski, 1987

Mohamed, Rahoma

see Enick, Holder, and Mohamed, 1987

Molecke, M. A.

see Beraun and Molecke, 1987; and Wicks and Molecke, 1987

Möller, P.

1987 (and Morteani, G.) Geochemical exploration guide for tantalum pegmatites: Econ. Geology, v. 82, no. 7, p. 1888-1897, 5 tables, 10 figs.

Monger, H. C.

1987 (Daugherty, L. A., McCurry, M. O., and Earl, R. A.) Mineralogy of some Pleistocene paleosols in southern New Mexico—implications for soil genesis in the arid Southwest during Pleistocene pluvials (abs.): Clay Minerals Soc., Ann. Mtg., Program and Abs., v. 24, p. 99

Monthioux, M.

see Meunier, Landais, Monthioux, and Pagel, 1987

Moore, B. J.

1987a (and Sigler, Stella) Analyses of natural gases, 1917-1985: U.S. Bureau Mines, Inf. Circ. 9129, 1197 p., 1 fig.

1987b (and Sigler, Stella) Analyses of natural gases, 1987: U.S. Bureau Mines, Helium Field Operations, Amarillo, Texas, Rept. BUMINES-1C-9188, 80 p.; Natl. Tech. Inf. Serv., Rept. PB89 112 304

Moore, C.

see Ortoleva, Chadam, and Moore, 1987

Moore, J. S.

see Pittaway, Albright, Hoover, and Moore, 1987

Moore, John McMahon

see Magee, Moore, and Brunner, 1987

Moore, Samuel L.

1987 Geologic map of the Allie Canyon quadrangle, Grant County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1606, 1 sheet, scale 1:24,000

Morales, Michael

1987 Terrestrial fauna and flora from the Triassic Moenkopi Formation of the southwestern United States: Arizona-Nevada Acad. Sci., Jour., v. 22, no. 1, p. 1-19, 2 figs.

Moran, M. I.

see Teillet, Slater, Jackson, Fedosejevs, and Moran, 1987

Morgan, Harold S.

see Wawersik and Morgan, 1987

Morgan, Paul

1987 Regional vertical movements and the development of the Rio Grande rift (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 778

see Tomczyk and Morgan, 1987

Morrison, H. F.

1987 (Majer, E. L., and Tsang, C. F.) Critical parameters and measurement methods for post closure monitoring—a review of the state of the art and recommendations for further studies: Lawrence Berkeley Lab., Rept. LBL-25505, 60 p., 19 figs.; Natl. Tech. Inf. Serv., Rept. DE89 008 416

Morrow, Norman R.

1987a (Buckley, Jill S., Cather, Steven M., and Brower, Kay R.) Rock matrix and fracture analysis of flow in western tight gas sands—Phase II: New Mexico Research and Develop. Inst., Rept. 2-74-4324, 52 p., 4 tables

1987b (Buckley, Jill S., Cather, Steven M., and Brower, Kay R.) Rock matrix and fracture analysis of flow in western tight gas sands—phase III, quarterly technical progress report, April-June 1987: New Mexico Petroleum Recovery Research Center, Rept. DOE/MC/21179-2378, 16 p., 1 table, 6 figs.; Natl. Tech. Inf. Serv., Rept. DE87 013 335

1987 (Buckley, Jill S., Cather, Steven M., Brower, Kay R., and Dandge, V.) Rock matrix and fracture analysis of flow in western tight gas sands—1986 annual report: New Mexico Petroleum Recovery Research Center, rept., 42 p., 4 tables, 18 figs.; Natl. Tech. Inf. Serv., Rept. DE87 001 100

Morteani, G.

see Möller and Morteani, 1987

Mroz, T. H.

see Byrer, Mroz, and Covatch, 1987

Mucciarone, David A.

1987 (Trainor, D. M., and Williams, Douglas F.) Whole rock stable isotope geochemistry for correlation and diagenetic interpretation—Delaware Basin and Monterey Formation examples (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 71, p. 596-597

Muir, I. J.

1987 (Bancroft, G. M., MacRae, Neil D., and Metson, J. B.) Quantitative analyses of rare-earth elements in minerals by secondary ion mass spectrometry: Chemical Geology, v. 64, nos. 3-4, p. 269-278, 6 tables

Mullican, William F., III

1987 (Kreitler, Charles W., and Nativ, Ronit) Hydrogeology of the Diablo Plateau/Salt Basin region, Trans-Pecos Texas—a coupled recharge/discharge system (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 781

Mumpton, Frederick A.

1987 Zeo-trip '87—an excursion to selected zeolite and clay deposits in southwestern New Mexico and eastern Arizona: Internat. Comm. Nat. Zeolites, Brockport, New York, 54 p.

Munroe, Robert J.

1987 (and Sass, J. H.) Thermal conductivity of samples from borehole VC-1, Valles caldera, New Mexico: U.S. Geol. Survey, Open-file Rept. 87-184, 16 p., 3 tables, 2 figs.

Munson, Darrell E.

1987 (Jones, Robert L., Hoag, David L., and Ball, John R.) Heated axisymmetric pillar test (room H)—in situ data report (February 1985–April 1987), Waste Isolation Pilot Plant (WIPP) thermal/structural interactions program: Sandia Natl. Lab., Rept. SAND87-2488, 348 p., 21 tables, 36 figs.

1987 (Torres, Teresa M., and Jones, Robert L.) Pseudostrain representation of multipass excavations in salt, in *Rock mechanics—proceedings of the 28th U.S. symposium*, I. W. Farmer and others, editors: Rotterdam, Balkema, p. 853–862

see Argüello and Munson, 1987; and Argüello, Munson, and Preece, 1987

Murchey, Benita L.

1987 (Madrid, Raul J., and Poole, Forrest G.) Paleozoic bedded barite associated with chert in western North America, in *Siliceous sedimentary rock-hosted ores and petroleum*, J. R. Hein, editor: New York, Van Nostrand Reinhold, p. 269–283

Murphy, Hugh D.

1987a Highlights of the hot dry rock program, in *Geothermal program review*, Washington, D.C.: U.S. Dept. Energy, Proc., v. 5, p. 139–142

1987b Hot dry rock reservoir engineering: Los Alamos Natl. Lab., Rept. LA-UR-87-3388, 21 p.

1987c Potential use of the Fenton Hill geothermal site as an earth science research facility (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1346

1987 (Hendron, Robert H., Miller, James R., and Dreesen, Donald S.) Hot dry rock plans, in *Geothermal program review*, Washington, D.C.: U.S. Dept. Energy, Proc., v. 5, p. 171–174

see Whetten, Dennis, Dreesen, House, Murphy, Robinson, and Smith, 1987

Murray, D. K.

1987a San Juan Basin, Colorado and New Mexico (Basin activities progress report, third quarter 1986): *Quart. Review of Methane from Coal Seams Tech.*, v. 4, no. 3, p. 22–26, 2 tables, 1 fig.

1987b San Juan Basin, Colorado and New Mexico (Basin activities progress report, fourth quarter 1986): *Quart. Review of Methane from Coal Seams Tech.*, v. 4, no. 4, p. 5–6, 1 table, 1 fig.

1987c San Juan Basin, Colorado and New Mexico (Basin activities progress report, first quarter 1987): *Quart. Review of Methane from Coal Seams Tech.*, v. 5, no. 1, p. 4–9, 1 table, 1 fig.

Murry, Phillip A.

1987a New reptiles from the Upper Triassic Chinle Formation of Arizona: *Jour. Paleontology*, v. 61, no. 4, p. 773–786, 9 figs.

1987b Notes on the stratigraphy and paleontology of the Upper Triassic Dockum Group: *Arizona–Nevada Acad. Sci., Jour.*, v. 22, no. 1, p. 73–84, 1 table, 1 fig.

Musick, H. Brad

see Breed, Musick, and Helm, 1987

Mutschler, F. E.

see Larson, Mutschler, and Bruce, 1987; and Larson, Patterson, Curtiss, Drake, and Mutschler, 1987

Mutz, Philip B.

1987 Surface water resources development, apportionment, administration and management milestones, in *Managing the river—proceedings of the thirty-first annual New Mexico water conference*, L. G. Harris, editor: New Mexico State Univ., Water Resources Research Inst., Rept. WRRRI-219, p. 7–22

Myers, J.

see Deal, Case, Deshler, Drez, Myers, and Tyburski, 1987

Myers, Robert G.

1987 Hydrology of the Carrizo Wash basin in Catron and Cibola Counties, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 322

1987 (and Pinckley, Karen M.) Test wells TW1, TW2, and TW3, White Sands Missile Range, Otero County, New Mexico: U.S. Geol. Survey, Open-file Rept. 87-47, 19 p.

Mytton, James W.

1987 (and Schneider, Gary B.) Interpretative geology of the Chaco area, northwestern New Mexico: U.S. Geol. Survey, Misc. Inv. Series, Map I-1777, 1 sheet, scale 1:24,000

Naeser, C. W.

see Marvin, Naeser, Bikerman, Mehnert, and Ratté, 1987; and Shannon, Naeser, DeWitt, and Wallace, 1987

Nash, K.

1987 (Kreuz, R., and Marr, J.) A pilot survey of state mechanical integrity testing (MIT) programs in New Mexico: U.S. Environ. Protection Agency and others, *Symp. on subsurface injection of oil field brines*, New Orleans, Louisiana, May 4–6, 1987, *Proc.*, p. 485–511

National Technical Information Service

1987 Remote sensing applied to environmental pollution detection and management, January 1970–June 1987: *Natl. Tech. Inf. Serv.*, Rept. PB87 862 843, 138 p.

National Weather Service

see U.S. Soil Conservation Service and National Weather Service, 1987

Nativ, Ronit

1987 (and Smith, D. Anderson) Hydrogeology and geochemistry of the Ogallala aquifer, southern High Plains: *Jour. Hydrology*, v. 91, nos. 3/4, p. 217–253, 1 table, 12 figs., 1 appendix

see Mullican, Kreidler, and Nativ, 1987

Neal, William S.

1987 Structure and geochemistry of the southeastern portion of the Chloride mining district, Sierra County, New Mexico: M.S. thesis, Washington State Univ., 136 p.

Neck, Raymond W.

1987 Changing Holocene snail faunas and environments along the eastern Caprock escarpment of Texas: *Quaternary Research*, v. 27, no. 3, p. 312–322, 3 tables, 1 fig.

Nelson, Dennis O.

1987 (and Nelson, Kerri L.) Geochemical comparison of alkaline volcanism in oceanic and continental settings; Clarion Island versus the eastern Trans-Pecos magmatic province, in *Mantle metasomatism and alkaline magmatism*, E. M. Morris and J. D. Pasteris, editors: *Geol. Soc. America, Spec. Paper* 215, p. 317–333, 2 tables, 10 figs.

1987 (Nelson, Kerri L., Reeves, K. D., and Mattison, G. D.) Geochemistry of Tertiary alkaline rocks of the eastern Trans-Pecos magmatic province, Texas: *Contr. Mineralogy and Petrology*, v. 97, p. 72–92

Nelson, Eric P.

1987 Thick and thin-skin Laramide deformation, Fra Cristobal Range, south-central New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 323

- see Chapin, M. A., and Nelson, 1987; and Hargett and Nelson, 1987
- Nelson, Fred W., Jr.**
see Baugh and Nelson, 1987
- Nelson, Kerri L.**
1987 Geochemical evaluation of diagenetic processes in a deep-water carbonate: *Chemical Geology*, v. 64, nos. 3–4, p. 239–258, 7 tables
see Nelson, D. O., and Nelson, 1987; and Nelson, D. O., Nelson, Reeves, and Mattison, 1987
- Nelson, W. John**
1987 Coal deposits of the United States: *Internat. Jour. Coal Geology*, v. 8, no. 4, p. 355–365, 1 table, 1 fig.
- Neuhauser, Kenneth R.**
1987 (Lucas, Spencer G., de Albuquerque, J. Stephen, Loudon, Robert J., Hayden, Steven N., Kietzke, Kenneth K., Oakes, Wayne, and Des Marais, David) Stromatolites of the Morrison Formation (Upper Jurassic), Union County, New Mexico—a preliminary report, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 153–159, 6 figs., 1 appendix
- Newcomer, Robert W., Jr.**
see Shomaker and Newcomer, 1987
- Newman, Karl R.**
1987 Biostratigraphic correlation of Cretaceous–Tertiary boundary rocks, Colorado to San Juan Basin, New Mexico, in *The Cretaceous–Tertiary boundary in the San Juan and Raton Basins, New Mexico and Colorado*, J. E. Fassett and J. K. Rigby, Jr., editors: *Geol. Soc. America, Spec. Paper 209*, p. 151–164, 2 tables, 11 figs.
1987 (and Cushman, Robert A., Jr.) Cretaceous palynology of the southern Colorado Plateau region, Arizona, Colorado, & New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 787
- New Mexico State Engineer**
1987 Annual report of the State Engineer of New Mexico (S. E. Reynolds) for the 75th fiscal year July 1, 1986, to June 30th, 1987: *New Mexico State Engineer*, 103 p.
- Newsom, Joan M.**
see Wilson, J. L., and Newsom, 1987
- Ni, J.**
1987 (and Smyth, A. H.) Land subsidence in the southern Hueco Bolson (abs.): *New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg.*, Abs. with Programs, p. 22; abs. also in *New Mexico Geology*, 1988, v. 10, no. 2, p. 41
- Nichols, Douglas J.**
1987 (and Upchurch, Garland R., Jr.) Integrated analysis of palynomorphs and plant cuticles—a unified approach to paleoecology (abs.): *Am. Assoc. Stratigraphic Palynologists, Ann. Mtg.*, v. 20, p. 124
- Nicholson, Robert W.**
see Dreesen, Miller, and Nicholson, 1987; and Schillo, Nicholson, Hendron, and Thomson, 1987
- Nickling, William G.**
see Marston, Gillespie, von Finger, and Nickling, 1987
- Nielson, Dennis L.**
1987a (and Hulen, Jeffrey B.) Hydraulic fracturing and hydrothermal brecciation in active geothermal systems, in *Building for the future*, L. T. Elliot, chairperson: *Geothermal Resources Coun., Trans.*, v. 11, p. 473–478
1987b (and Hulen, Jeffrey B.) Hydrothermal brecciation in active geothermal systems—results from VC-1 (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 16, p. 469
see Goff, Nielson, Gardner, and Hulen, 1987; Goff, Nielson, Gardner, Hulen, Lysne, Shevenell, and Rowley, 1987; Hulen and Nielson, 1987; Hulen, Nielson, Goff, and Gardner, 1987; and Hulen, Nielson, Goff, Gardner, and Charles, 1987
- Niou, Stephen**
1987 (and Pietz, John M.) Coupled brine migration and stress analysis for repository room saturation in bedded salt, in *Rock mechanics—proceedings of the 28th U.S. symposium*, I. W. Farmer and others, editors: Rotterdam, Balkema, p. 601–608, 1 table
- Norman, David I.**
1987 Why some geothermal systems deposit Au–Ag ores (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 790
1987 (Condie, K. C., Smith, R. W., and Thomann, W. F.) Geochemical and Sr and Nd isotopic constraints on the origin of Late Proterozoic volcanics and associated tin-bearing granites from the Franklin Mountains, west Texas: *Canadian Jour. Earth Sci.*, v. 24, p. 830–839
see Bazrafshan and Norman, 1987; Boadi, Norman, and Robertson, 1987; and Eggleston and Norman, 1987a–c
- North, Robert M.**
1987 Geology and mineralogy of the San Pedro mine, Santa Fe County, New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Mineral Symp.; abs. also in New Mexico Geology*, 1988, v. 10, no. 1, p. 18
1987a (and McLemore, Virginia T.) A classification of the precious metal deposits of New Mexico (abs.): *Geol. Soc. Nevada, Symp. on Bulk mineable precious metal deposits of the western United States*, Reno, Nevada, April 6–8, 1987, Abs. with Program, p. 56
1987b (and McLemore, Virginia T.) Mineralization in the Luis Lopez mining district, Socorro County, New Mexico—a summary, in *Guidebook to the Socorro area*, New Mexico, V. T. McLemore and M. R. Bowie, compilers: *New Mexico Bureau Mines Mineral Resources*, p. 68–73, 1 table, 6 figs.
see McLemore and North, 1987
- Northrop, H. Roy**
1987 (and Whitney, C. Gene) Clays and associated minerals in the Alum Mountain fossil geothermal system near Gila Hot Springs, Grant County, New Mexico, in *Zeo-trip '87—an excursion to selected zeolite and clay deposits in southwestern New Mexico and eastern Arizona*, F. A. Mumpton, editor: *Internat. Comm. Nat. Zeolites*, Brockport, New York, p. 1–12
see Whitney and Northrop, 1987
- Nowak, E. J.**
1987 (and McTigue, D. F.) Interim results of brine transport studies in the Waste Isolation Pilot Plant (WIPP): Sandia Natl. Lab., Rept. SAND87–0880, 63 p., 6 tables, 30 figs.; *Natl. Tech. Inf. Serv., Rept. DE87 014 268*
1987 (and Stormont, J. C.) Scoping model calculations of the reconsolidation of crushed salt in WIPP shafts: Sandia Natl. Lab., Rept. SAND87–0879
see McTigue and Nowak, 1987a,b
- Nummedal, Dag**
1987 (and Sneddon, John W.) Sediment exchange between the shoreface and continental shelf—evidence from the modern Texas coast and the rock record, in *Coastal sediments '87*, N. C. Kraus, editor: *Am. Soc. Civil Engineers, Proc. of a specialty conference on Advances in understanding of coastal sediment processes*, May 12–14, 1987, New Orleans, Louisiana
1987a (and Swift, Donald J. P.) Shelf sandstone architecture in the Western Interior seaway (abs.): *Geol. Assoc. Canada, Mineral. Assoc. Canada, Canadian Geophys. Union, Joint Ann. Mtg., Program with Abs.*, v. 12, p. 77
1987b (and Swift, Donald J. P.) Transgressive stratigraphy at sequence-bounding unconformities—some principles derived from Holocene and Cretaceous examples, in *Sea-level fluctuations and coastal evolution*, D. Nummedal and others, editors: *Soc. Econ. Paleontologists and Mineralogists, Spec. Publ. 41*, p. 241–260

- Nyhan, John W.**
see Abeele and Nyhan, 1987
- Oakes, Wayne**
see Neuhauser, Lucas, de Albuquerque, Loudon, Hayden, Kietzke, Oakes, and Des Marais, 1987
- Oberthal, Christa M.**
see Potter, D. B., and Oberthal, 1987a,b
- O'Connor, George A.**
1987 (and Khorsandi, Farhad) Predicting chemical movement in soils: New Mexico State Univ., Water Resources Research Inst., Rept. WRRRI-M17, 17 p., 5 tables
- Olivares, Mark D.**
see Dickinson, Klute, Hayes, Janecke, Lundin, McKittrick, and Olivares, 1987
- Oliver, J.**
see Lundy, Hauser, Brown, Oliver, and Kaufman, 1987
- Olsen, Kenneth H.**
1987 Seismic evidence on the geophysical nature of the deep lithospheric transition zone beneath the southern Great Plains and the southern Rockies/Rio Grande rift regions (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 325
1987 (Baldrige, W. Scott, and Callender, Jonathan F.) Rio Grande rift—an overview: *Tectonophysics*, v. 143, no. 1-3, p. 119-139
see Keller and Olsen, 1987
- Omdahl, Eleanor M.**
see Crone and Omdahl, 1987
- O'Neill, F. Michael**
see Fassett, Lucas, and O'Neill, 1987; and Lucas, Mateer, Hunt, and O'Neill, 1987
- Ong, Kim**
1987 New Mexico ground-water quality: U.S. Geol. Survey, Open-file Rept. 87-741, 9 p.
- Opdyke, N. D.**
see Lindsay, Johnson, Opdyke, and Butler, 1987
- Orr, Brennon R.**
1987 Water resources of the Zuni tribal lands, McKinley and Cibola Counties, New Mexico: U.S. Geol. Survey, Water-supply Paper 2227, 76 p.
- Orr, C. D.**
see Keller, Rogers, and Orr, 1987
- Orr, Franklin M.**
1987 (and Silva, M. K.) Effect of oil composition on minimum miscibility pressure—pt. 2, correlation: *SPE Reservoir Engineering*, v. 2, no. 4, p. 479-491, 8 tables, 17 figs.
see Bretz and Orr, 1987
- Orth, Charles J.**
1987 (Gilmore, James S., and Knight, Jere D.) Iridium anomaly at the Cretaceous-Tertiary boundary in the Raton Basin, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 265-269, 1 table, 8 figs.
- Ortoleva, P.**
1987 (Chadam, J., and Moore, C.) Predictive modeling of uranium roll front deposits—final report: *Geo-Chemical Research Assoc., Inc., Rept. DOE/ER/12074-T1*, 21 p.; *Natl. Tech. Inf. Serv., Rept. DE87 009 660*
- Osburn, Glenn R.**
1987 Point of Rocks Canyon: *New Mexico Geology*, v. 9, no. 1, p. 12-13, 2 figs.
- Osterkamp, W. R.**
1987 (and Wood, Warren W.) Playa-lake basins on the southern High Plains of Texas and New Mexico—pt. 1, hydrologic, geomorphic, and geologic evidence for their development: *Geol. Soc. America, Bull.*, v. 99, no. 2, p. 215-223, 1 table, 11 figs.
see Wood, W. W., and Osterkamp, 1987
- Overvold, David P.**
1987 You can't put too much water in Elephant Butte, in *Managing the river—proceedings of the thirty-first annual New Mexico water conference*, L. G. Harris, editor: *New Mexico State Univ., Water Resources Research Inst., Rept. WRRRI-219*, p. 44-51
- Owen, Donald E.**
see Walters, Owen, Henley, Winsten, and Valek, 1987
- Owen, Douglass E.**
see Fishman, Turner-Peterson, and Owen, 1987; and Turner-Peterson, Fishman, and Owen, 1987
- Padovani, Elaine R.**
1987 The ground truth from crustal xenoliths—a multifaceted approach (abs.), in *Geophysics and petrology of the deep crust and upper mantle*: U.S. Geol. Survey, Circ. 956, p. 40-43
- Pagel, Maurice**
see Meunier, Landais, Monthieux, and Pagel, 1987
- Pallister, John S.**
see Aleinikoff, Reed, and Pallister, 1987; and Reed, Bickford, Premo, Aleinikoff, and Pallister, 1987
- Palmer, Gerald R.**
see Roeder, MacArthur, Ma, Palmer, and Mariano, 1987
- Palmer, J. B.**
see Stensrud, Bame, Lantz, LaVenue, Palmer, and Saulnier, 1987
- Parker, Don F.**
see Price, Henry, Barker, and Parker, 1987
- Parkhurst, Renee S.**
1987 (and Christenson, Scott C.) Selected chemical analyses of water from formations of Mesozoic and Paleozoic age in parts of Oklahoma, northern Texas, and Union County, New Mexico: U.S. Geol. Survey, Water-resources Inv., Rept. 86-4355, 222 p., 4 tables
- Parmley, William P.**
1987 Geochemical characterization and shard morphology of volcanic glass from the Oligocene Catahoula Formation, Jasper County, Texas: M.S. thesis, Stephen F. Austin State Univ., 114 p.
- Parrish, J. M.**
see Good, Parrish, and Dubiel, 1987
- Parrish, Judith T.**
1987 (and Peterson, Fred) Eolian sandstones and predicted winds, western U.S. (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 325
- Pasteris, Jill D.**
1987 Fluid inclusions in mantle xenoliths, in *Mantle xenoliths*, P. H. Nixon, editor: *New York, John Wiley*
see Dromgoole and Pasteris, 1987
- Patchett, P. Jonathan**
see Reece, Ruiz, Patchett, and Burt, 1987; and Ruiz, Patchett, Reece, and Duffield, 1987
- Patrick, W. C.**
see Chakrabarti, Patrick, and Duplancic, 1987
- Patterson, P. E.**
see Larson, Patterson, Curtiss, Drake, and Mutschler, 1987
- Pausé, Paul H.**
see Dufford, Burdick, Garvey, Gibson, Grimes, Pausé, and Turmelle, 1987a,b
- Pavich, Milan J.**
1987 Cosmogenic ^{10}Be in desert soils from New Mexico (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1286
- Pavlovich, Bob**
1987 (and Barnes, Donald) Federal land availability for mineral access, in *Mineral issues—1987*: U.S. Bureau Mines, p. 21-28
- Pavlow, M.**
1987 Études sur l'histoire paléontologique des ongulés

- en América et en Europe, I. Groupe primitif de l'éocène inférieur: Moscow, Imperial Nature Soc., Bull., v. 1, no. 2, p. 343-373
- Pawlewicz, Mark J.**
see Barker, C. E., and Pawlewicz, 1987
- Peacock, Edward W.**
see Shoemaker, Pillmore, and Peacock, 1987
- Pearson, F. J., Jr.**
1987 (Kelley, V. A., and Pickens, J. F.) Preliminary design for a sorbing tracer test in the Culebra Dolomite at the H-3 hydropad at the Waste Isolation Pilot Plant (WIPP) site: Sandia Natl. Lab., Rept. SAND86-7177, 104 p., 21 tables, 19 figs., 1 appendix
- Pearson, John W.**
1987 (and Porter, Elise W.) Characteristics of the ore fluid, Phillipsburg area, northern Black Range, New Mexico (abs.): Am. Current Research on Fluid Inclusions (ACROFI) mtg., Socorro, New Mexico, January 5-7, 1987, Program and Abs., unpaginated
- Pei, P.**
see Millard, Pei, Felicetti, Gray, Thompson, and Phelan, 1987
- Pennstrom, W. J.**
see Arnold and Pennstrom, 1987
- Perry, Frank V.**
1987a (Baldrige, W. Scott, and DePaolo, Donald J.) Lithospheric thinning inferred from geochemical and Nd and Sr isotopic studies of basalts from the Rio Grande rift region (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 803
1987b (Baldrige, W. Scott, and DePaolo, Donald J.) Role of asthenosphere and lithosphere in the genesis of late Cenozoic basaltic rocks from the Rio Grande rift and adjacent regions of the southwestern United States: Jour. Geophys. Research, v. 92, no. B9, p. 9193-9213, 3 tables, 15 figs., 1 appendix
see Baldrige, Perry, and Shafiqullah, 1987
- Perry, Patricia L.**
1987 An interpretation of the depositional setting for the Sugarite coal zone of the Raton Formation, located near the City of Raton, N.M.: M.S. thesis, New Mexico Inst. Mining and Tech., 261 p.
- Persico, John L.**
1987 Behavior, specification, and environmental impact of selenium at Bosque del Apache National Wildlife Refuge and Poison Canyon, New Mexico: M.S. thesis, Univ. New Mexico, 113 p.
- Peter, Kathy D.**
1987 Ground-water flow and shallow-aquifer properties in the Rio Grande inner valley south of Albuquerque, Bernalillo County, New Mexico: U.S. Geol. Survey, Water-resources Inv., Rept. 87-4015, 29 p.
1987 (Williams, Robert A., and King, Kenneth W.) Hydrogeologic characteristics of the Lee Acres landfill area, San Juan County, New Mexico: U.S. Geol. Survey, Water-resources Inv., Rept. 87-4246, 69 p., 7 tables, 17 figs.
- Peters, Richard J.**
see Purtymun, Peters, Buhl, Maes, and Brown, 1987
- Petersen, Gary W.**
1987 (Connors, Kathryn F., Miller, D. A., Day, R. L., and Gardner, Thomas W.) Aircraft and satellite remote sensing of desert soils and landscapes, in Spectral characteristics of aridland and rangeland vegetation and soils for remote sensing, P. T. Tueller and others, editors: Remote Sensing of Environment, v. 23, no. 2, p. 253-271
see Connors, Gardner, and Petersen, 1987
- Peterson, E. W.**
1987a (Lagus, P. L., and Lie, K.) Fluid flow measurements of test series A and B for the small-scale seal performance tests: Sandia Natl. Lab., Rept. SAND87-7041, 123 p., 4 tables, 89 figs., 2 appendices
1987b (Lagus, P. L., and Lie, K.) WIPP horizon free field fluid transport characteristics: Sandia Natl. Lab., Rept. SAND87-7164, 89 p., 65 figs., 2 appendices; Natl. Tech. Inf. Serv., Rept. DE88 004 640
see Stormont, Peterson, and Lagus, 1987
- Peterson, Fred**
1987 Pennsylvanian to Jurassic eolian transportation systems in the western United States: Sed. Geology, v. 56, p. 207-260
1987 (and Turner-Peterson, Christine E.) The Morrison Formation of the Colorado Plateau—recent advances in sedimentology, stratigraphy, and paleotectonics: Hunteria, v. 2, no. 1, 18 p.
see Parrish and Peterson, 1987
- Peterson, Stephen L.**
see Bowie, Barker, and Peterson, 1987
- Pfeifer, Mary C.**
1987 Multicomponent underground DC resistivity study at the Waste Isolation Pilot Plant, southeast New Mexico: M.S. thesis, Colorado School Mines, 96 p.
- Pfeife, Thomas W.**
1987 Mechanical properties and consolidation of potential DHLW backfill materials—crushed salt and 70/30 bentonite/sand: Sandia Natl. Lab, Rept. SAND85-7208
- Phelan, J.**
see Millard, Pei, Felicetti, Gray, Thompson, and Phelan, 1987
- Philip, Ross D.**
see Kernodle and Philip, 1987
- Phillips, Fred M.**
see Leavy, Phillips, Elmore, Kubik, and Gladney, 1987; Leavy, Phillips, Smith, Jannik, Elmore, and Kubik, 1987; Mattick, Duval, and Phillips, 1987; and Reiter and Phillips, 1987
- Phillips, Sandra**
1987 Dipmeter interpretation of turbidite-channel reservoir sandstones, Indian Draw field, New Mexico, in Reservoir sedimentology, R. W. Tillman, editor: Soc. Econ. Paleontologists and Mineralogists, Spec. Publ. 40, p. 113-128
- Picard, M. Dane**
1987 A year of sand: Jour. Geol. Education, v. 35, no. 4, p. 226-228
- Pickens, John F.**
see Haug, Kelley, LaVenue, and Pickens, 1987; Kelley, V. A., Pickens, Reeves, and Beauheim, 1987; Pearson, Kelley, and Pickens, 1987; Reeves, Kelley, and Pickens, 1987; and Tomasko, Reeves, Kelley, and Pickens, 1987
- Pietz, John M.**
see Niou and Pietz, 1987
- Pillmore, Charles L.**
1987 (and Flores, Romeo M.) Stratigraphy and depositional environments of the Cretaceous-Tertiary boundary clay and associated rocks, Raton Basin, New Mexico and Colorado, in The Cretaceous-Tertiary boundary in the San Juan and Raton Basins, New Mexico and Colorado, J. E. Fassett and J. K. Rigby, Jr., editors: Geol. Soc. America, Spec. Paper 209, p. 111-130, 2 tables, 10 figs., 5 appendices
see Flores and Pillmore, 1987; Pollastro and Pillmore, 1987; and Shoemaker, Pillmore, and Peacock, 1987
- Pinckley, Karen M.**
see Myers and Pinckley, 1987
- Pinnick, R. G.**
see Chylek, Srivastava, Cahenzli, Pinnick, and Dod, 1987
- Pittaway, K. R.**
1987 (Albright, J. C., Hoover, J. W., and Moore, J. S.)

- The Maljamar CO₂ pilot—review and results: *Jour. Petroleum Tech.*, v. 39, no. 10, p. 1256–1260, 1 table, 9 figs.
- Pollastro, Richard M.**
1987 (and Pillmore, Charles L.) Mineralogy and petrology of the Cretaceous–Tertiary boundary clay bed and adjacent clay-rich rocks, Raton Basin, New Mexico and Colorado: *Jour. Sed. Petrology*, v. 57, no. 3, p. 456–466, 8 figs.
- Poole, Forrest G.**
see Murchey, Madrid, and Poole, 1987
- Porter, Elise W.**
see Pearson and Porter, 1987
- Post, James L.**
see Chamberlin, McLemore, Bowie, and Post, 1987
- Potochnik, Andre R.**
1987 Fluvial response to the Laramide–mid-Tertiary tectonic transition along the southeastern margin of the Colorado Plateau (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 809
- Potter, Donald B.**
1987a (and Oberthal, Christa M.) Vent sites and flow directions of the Otowi ash flows (lower Bandelier Tuff), New Mexico: *Geol. Soc. America, Bull.*, v. 98, no. 1, p. 66–76, 1 table, 8 figs.
1987b (and Oberthal, Christa M.) Vent sites and flow directions of the Otowi ash flows (lower Bandelier Tuff), New Mexico—reply: *Geol. Soc. America, Bull.*, v. 99, no. 4, p. 602–603
- Potter, Robert M.**
1987 (and Fehler, Michael C.) A three-dimensional view of microseismicity induced by hydraulic fracturing at Fenton Hill (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1353
- Powers, Dennis W.**
1987 Geological investigations of the Waste Isolation Pilot Plant, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 195–198
1987 (Holt, Robert M., and Hoffer, Jerry M.) Preliminary studies of near-surface sediments, Salt Flat graben, west Texas, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 184–194, 4 figs.
1987a (and James, W. C.) Second day road log, Carlsbad Civic Center–northern Nash Draw–WIPP site–southern Nash Draw, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 24–37, 4 figs.
1987b (and James, W. C., editors) *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*: *El Paso Geol. Soc., Guidebook 18*, 198 p.
1987 (and LeMone, David V.) A summary of Ochoan stratigraphy, western Delaware Basin, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 63–68, 1 fig.
see Holt and Powers, 1987a,b; James and Powers, 1987; and Robinson, J. Q., and Powers, 1987
- Pravdivtseva, O. V.**
see Shukolyukov, Meshik, Pravdivtseva, and Verkhovskiy, 1987; and Shukolyukov, Meshik, Pravdivtseva, Verkhovskiy, and Kryuchkova, 1987
- Pray, Lloyd C.**
1987 Capitan reef complex (Permian), Guadalupe Mountains, southwestern United States—a classic sedimentologic model in flux (abs.): *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 11, p. 1441–1442
see Franseen, Pray, and Fekete, 1987
- Precision Service, Inc.**
see Brown and Ruth Laboratories, Inc., GeoChem Laboratories, Inc., and Precision Service, Inc., 1987
- Preece, Dale S.**
1987 Pretest 3–D finite element modeling of the wedge pillar portion of the WIPP geomechanical evaluation (room G) in situ experiment: Sandia Natl. Lab., Rept. SAND87–0472, 58 p.
see Argüello, Munson, and Preece, 1987
- Premo, Wayne R.**
see Reed, Bickford, Premo, Aleinikoff, and Pallister, 1987
- Presley, Mark W.**
1987 Evolution of Permian evaporite basin in Texas panhandle: *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 2, p. 167–190, 2 tables, 20 figs.
- Pretzschner, H. U.**
see von Koenigswald, Rensberger, and Pretzschner, 1987
- Price, Jonathan G.**
1987 (Henry, Christopher D., Barker, Daniel S., and Parker, Don F.) Alkalic rocks of contrasting tectonic settings in Trans-Pecos Texas, in *Mantle metasomatism and alkaline magmatism*, E. M. Morris and J. D. Pasteris, editors: *Geol. Soc. America, Spec. Paper 215*, p. 335–346, 2 tables, 11 figs.
see Rubin, Price, Henry, and Koppenaal, 1987
- Priest, Susan S.**
see Duffield, Richter, and Priest, 1987
- Prince, J. K.**
see Banz, Bradshaw, Cockman, Fisher, Prince, Rodriguez, and Uhland, 1987
- Prince, Nancy K.**
see Conrad, Lockley, and Prince, 1987
- Purtymun, William D.**
1987 (Ferenbaugh, Roger W., Becker, Naomi M., Williams, Mary C., and Maes, Max N.) Water quality in the vicinity of Fenton Hill—progress report, 1983 and 1984: Los Alamos Natl. Lab., Rept. LA-10892-PR, 39 p.; Natl. Tech. Inf. Serv., Rept. DE87 004 417
1987 (Peters, Richard J., Buhl, Thomas E., Maes, Max N., and Brown, F. H.) Background concentrations of radionuclides in soils and river sediments in northern New Mexico, 1974–1986: Los Alamos Natl. Lab., Rept. LA-11134-MS, 16 p.
1987 (and Stoker, Alan K.) Environmental status of technical area 49, Los Alamos, New Mexico: Los Alamos Natl. Lab., Rept. LA-11135-MS, 31 p.
1987 (Stoker, Alan K., and Maes, Max N.) Water supply at Los Alamos during 1986: Los Alamos Natl. Lab., Rept. LA-11046-PR, 38 p.
- Pyron, Arthur J.**
1987 (and Feder, Allen M.) Practical application of Landsat imagery in hydrocarbon exploration: *Houston Geol. Soc., Bull.*, v. 30, no. 4, p. 24–26
- Rager, Ron**
see Caldwell, J. A., Larson, and Rager, 1987
- Ragone, Stephen E.**
see Cain, Helsel, and Ragone, 1987
- Raimonde, Michael S.**
1987 Laramide basement-cored uplift and basins in south-central New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 811–812
- Raines, G. L.**
see Richter, Houser, Watts, Klein, Sharp, Drewes, Hedlund, Raines, and Hassemer, 1987
- Randall, W. S.**
see Uhland, Randall, and Carrasco, 1987
- Ratté, James C.**
1987 Some comparisons of the San Juan and Mogollon–Datil volcanic fields, Colorado and New Mexico (abs.):

- Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 328
- 1987** (and Modreski, Peter J.) Origin and significance of mineralized pre-Tertiary xenoliths in pumice breccia at Old Horse Springs, Mogollon-Datil volcanic field, Catron County, New Mexico (abs.), in Abstracts of the U.S. Geological Survey—central region, C. E. Barker and A. B. Coury, editors: U.S. Geol. Survey, Open-file Rept. 87-608, p. 7; Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 328
see Marvin, Naeser, Bikerman, Mehnert, and Ratté, 1987; and Modreski and Ratté, 1987
- Reece, Cady**
1987 (Ruiz, Joaquin, Patchett, P. Jonathan, and Burt, Donald M.) Nd-Sr isotopic composition of Cenozoic high-silica fluorine-rich rhyolites from the Sierra Madre Occidental, Mexico and western United States (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 814
see Ruiz, Patchett, Reece, and Duffield, 1987
- Reed, J. E.**
see Bedinger, Langer, and Reed, 1987
- Reed, John C., Jr.**
1987a Assembly of the Early Proterozoic terrane of Colorado (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 328
1987b Precambrian geology of the U.S.A.: Episodes, v. 10, no. 4, p. 243-247, 4 figs.
1987 (Bickford, M. E., Premo, Wayne R., Aleinikoff, John N., and Pallister, John S.) Evolution of the Early Proterozoic Colorado province—constraints from U-Pb geochronology: Geology, v. 15, no. 9, p. 861-865, 1 table, 2 figs.
see Aleinikoff, Reed, and Pallister, 1987
- Reeves, K. D.**
see Nelson, D. O., Nelson, Reeves, and Mattison, 1987
- Reeves, Mark**
1987 (Kelley, Van A., and Pickens, John F.) Regional double-porosity solute transport in the Culebra Dolomite—an analysis of parameter sensitivity and importance at the Waste Isolation Pilot Plant (WIPP) site: Sandia Natl. Lab., Rept. SAND87-7105, 162 p., 15 tables, 46 figs., 3 appendices
see Kelley, V. A., Pickens, Reeves, and Beauheim, 1987; and Tomasko, Reeves, Kelley, and Pickens, 1987
- Reid, A. M.**
see Mazzullo, L. J., and Reid, 1987; Mazzullo, S. J., and Reid, 1987; and Mazzullo, S. J., Reid, and Mazzullo, 1987
- Reid, Mary R.**
1987 Chemical stratification of the crust—iso- tope, trace element, and major element constraints from crustally contaminated lavas and lower crustal xenoliths: Ph.D. dissertation, Massachusetts Inst. Tech., 324 p.
- Reimers, R. F.**
see Love, D. W., Reimers, Hawley, Johnpeer, and Bobrow, 1987
- Reisinger, Hartwig R.**
1987 (Wagener, Jens, and Abitz, Richard J.) An Oligocene ash-flow tuff vent correlated to a regional high-silica rhyolite tuff sheet (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 815
- Reisz, Robert R.**
see Berman, Reisz, and Eberth, 1987a,b
- Reiter, Marshall A.**
1987 (Barroll, Margaret W., Minier, Jeffrie D., and Clarkson, Gerry) Thermo-mechanical model for incremental fracturing in cooling lava flows: Tectonophysics, v. 142, nos. 2-4, p. 241-260, 18 figs.
1987 (and Phillips, Fred M.) Preliminary correlations between geothermal and hydrologic data from the San Juan Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 816
see Clarkson and Reiter, 1987; and Minier and Reiter, 1987
- Renault, Jacques R.**
1987a Pictographs in Arroyo del Tajo, Socorro County, New Mexico: New Mexico Geology, v. 9, no. 4, p. 80-81, 3 figs.
1987b Possible orbital forcing of Miocene alluvial sedimentation (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 6, p. 442
- Rensberger, J. M.**
see Tedford, Skinner, Fields, Rensberger, Whistler, Galusha, Taylor, Macdonald, and Webb, 1987; and von Koenigswald, Rensberger, and Pretzschner, 1987
- Resendiz-Carrillo, Daniel**
1987 (and Lave, Lester B.) Optimizing spillway capacity with an estimated distribution of floods: Water Resources Research, v. 23, no. 11, p. 2043-2049, 3 tables
- Rezak, Richard**
see Kirkland, Lighty, Rezak, and Tieh, 1987
- Rich, Susan**
see Shuey, Rich, and Bean, 1987
- Richards, Diana L.**
1987 (and Michalski, Thomas C.) Catalog of thin sections available at the USGS Core Research Center, Denver, Colorado: U.S. Geol. Survey, Open-file Rept. 87-659, 220 p.
see Michalski and Richards, 1987
- Richey, Steven F.**
1987a Preliminary hydrologic data for wells tested in Nash Draw, near the proposed Waste Isolation Pilot Plant site, southeastern New Mexico: U.S. Geol. Survey, Open-file Rept. 87-37, 131 p., 23 tables, 1 fig.
1987b Water-level data from wells in the vicinity of the Waste Isolation Pilot Plant, southeastern New Mexico: U.S. Geol. Survey, Open-file Rept. 87-120, 107 p.
- Richter, Donald H.**
1987 Geologic map of the O Bar O Canyon East quadrangle, Catron County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1976, 1 sheet, scale 1:24,000
1987 (Houser, Brenda B., Watts, Kenneth C., Klein, D. P., Sharp, W. N., Drewes, Harald, Hedlund, D. C., Raines, G. L., and Hassemer, Jerry R.) The conterminous United States mineral assessment program—background information to accompany folio of geologic and mineral resource maps of the Silver City 1° × 2° quadrangle, New Mexico and Arizona: U.S. Geol. Survey, Circ. 975, 22 p., 2 tables, 6 figs.
1987 (Saltus, Richard W., and Korzeb, Stanley L.) Mineral resources of the Antelope Wilderness Study Area, Socorro County, New Mexico: U.S. Geol. Survey, Bull. 1734-B, p. B1-B11
1987 (Saltus, Richard W., and Ryan, George S.) Mineral resources of the Jornada del Muerto Wilderness Study Area, Socorro and Sierra Counties, New Mexico: U.S. Geol. Survey, Bull. 1734-A, p. A1-A10
see Duffield, Richter, and Priest, 1987
- Ridgley, Jennie L.**
1987a Mid-Jurassic tectonic control on deposition and isolation of upper clastic member of the Wanakah Formation, Chama Basin, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 329
1987b Surface to subsurface cross sections showing correlation of the Dakota Sandstone, Burro Canyon (?) Formation, and upper part of the Morrison Formation in the Chama-El Vado area, Chama Basin, Rio Arriba County, New Mexico: U.S. Geol. Survey, Misc. Field Studies Map MF-1496-D, 2 sheets

Rigby, J. Keith, Jr.

1987 (and Wolberg, Donald L.) The Therian mammalian fauna (Campanian) of Quarry 1, Fossil Forest study area, San Juan Basin, New Mexico, in *The Cretaceous-Tertiary boundary in the San Juan and Raton Basins, New Mexico and Colorado*, J. E. Fassett and J. K. Rigby, Jr., editors: Geol. Soc. America, Spec. Paper 209, p. 51-79, 4 pls., 10 tables, 8 figs.

see Brookins and Rigby, 1987; and Fassett and Rigby, 1987

Rinker, J. N.

see McCauley and Rinker, 1987

Risser, Dennis W.

1987 Possible changes in ground-water flow to the Pecos River caused by Santa Rosa Lake, Guadalupe County, New Mexico: U.S. Geol. Survey, Water-resources Inv., Rept. 85-4291, 79 p., 1 table, 38 figs.

Roberts, Peter M.

1987 (Aki, Keiiti, and Fehler, Michael C.) A study of the 2-D seismic structure of the Valles caldera, New Mexico, using discrete wave number modeling of observed teleseismic P-waves (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1347

Robertson, James M.

1987 (and Fulp, Michael S.) Proterozoic volcanogenic sulfide deposits in the southern Sangre de Cristo Mountains, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 822

see Boadi, Norman, and Robertson, 1987; and Gabelman, Robertson, and McLemore, 1987

Robinson, B. M.

see Holditch, Robinson, and Whitehead, 1987

Robinson, B. Russell

1987 Accumulation of low sulfur, semisplint coals on a prograding shoreline (abs.): *Soc. Econ. Paleontologists and Mineralogists, Midyear Mtg., Abs. with Programs*, v. 4, p. 87

Robinson, Bruce A.

1987 (Aguilar, Ronald G., Kanaori, Yuji, Trujillo, Patricia E., Jr., Counce, Dale A., Birdsell, Stephen A., and Matsunaga, Isao) Geochemistry and tracer behavior during a thirty day flow test of the Fenton Hill HDR (hot dry rock) reservoir: Los Alamos Natl. Lab., Rept. LA-UR-86-4335, 10 p.; *Natl. Tech. Inf. Serv., Rept. DE87 003 753*

1987 (and Jones, Gerard F.) Tracer-based model for heat transfer in a hot dry rock reservoir: Los Alamos Natl. Lab., Rept. LA-UR-87-1950, 17 p.; *Natl. Tech. Inf. Serv., Rept. DE87 011 784*

see Whetten, Dennis, Dreesen, House, Murphy, Robinson, and Smith, 1987

Robinson, Charles W.

1987 Char-oil-water slurry study: New Mexico Energy Research and Develop. Inst., Rept. 2-74-4615, 92 p.

see Lechner and Robinson, 1987

Robinson, John Q.

1987 (and Powers, Dennis W.) A clastic deposit within the lower Castile Formation, western Delaware Basin, New Mexico, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 69-79, 4 figs.

Robinson, K. L.

1987 Analysis of solutes in ground waters from the Rustler Formation at and near the WIPP site: Sandia Natl. Lab., Rept. SAND86-0917

Robinson, Richard D.

1987 (and Knab, Daryl) Comparison of dissolved and leachable trace metals in Los Alamos drinking water supply and distribution system specimens: Los Alamos Natl. Lab., Rept. LA-11042-MS, 18 p.

Robinson-Cook, Sylveen

see Campbell, A. R., and Robinson-Cook, 1987; Johnpeer, Bobrow, Robinson-Cook, and Barrie, 1987a,b; Johnpeer, Robinson-Cook, Bobrow, Barrie, Kelliher, and McNeil, 1987; and Love, D. W., Gutjahr, and Robinson-Cook, 1987

Rodgers, Ann B.

see DuMars, Rodgers, Cummings, and others, 1987

Rodgers, John C.

1987 Exhaust stack monitoring issues at the Waste Isolation Pilot Plant: New Mexico Health and Environ. Dept., Environ. Improvement Div., Environ. Evaluation Group, Rept. EEG-37, 116 p.; *Natl. Tech. Inf. Serv., Rept. DE88 004 200*

see Wenzel, Foxx, Gallegos, Tierney, and Rodgers, 1987

Rodi, W. L.

see Jiracek, Rodi, and Vanyan, 1987

Rodriguez, A. L.

see Banz, Bradshaw, Cockman, Fisher, Prince, Rodriguez, and Uhland, 1987

Rodriguez, J. Carlos

1987 Two-dimensional magnetotelluric interpretation of the eastern portion of the Española Basin, New Mexico, U.S.A.: M.S. thesis, Centro de Investigacion Cientifica y de Educacion Superior de Ensenada (CICESE), Mexico

1987 (Martinez, Mario, Fernandez, Ricardo, Romo, Jose M., and Jiracek, George R.) A 2-D magnetotelluric interpretation and its comparison with other geophysical methods for an east portion of the Española Basin in the Rio Grande rift (abs.): *Internat. Union of Geodesy and Geophysics, General Assembly XIX*, v. 2, p. 443

see Jiracek, Martinez, Rodriguez, Romo, and Fernandez, 1987

Roeder, Peter L.

1987 (MacArthur, Duncan, Ma, Xin-Pei, Palmer, Gerald R., and Mariano, Anthony N.) Cathodoluminescence and microprobe study of rare-earth elements in apatite: *Am. Mineralogist*, v. 72, nos. 7/8, p. 801-811, 2 tables, 6 figs.

Rogers, A. M.

see Keller, Rogers, and Orr, 1987

Romine, Karen

see Sarg, Romine, and Vail, 1987

Romo, Jose M.

see Jiracek, Martinez, Rodriguez, Romo, and Fernandez, 1987; and Rodriguez, Martinez, Fernandez, Romo, and Jiracek, 1987

Rose, K. D.

see Archibald, Gingerich, Lindsay, Clemens, Krause, and Rose, 1987

Ross, Charles A.

1987 (and Ross, June R. P.) Late Paleozoic sea levels and depositional sequences, in *Timing and depositional history of eustatic sequences—constraints on seismic stratigraphy*, C. A. Ross, editor: *Cushman Foundation for Foraminiferal Research, Spec. Publ. 24*, p. 137-149

Ross, June R. P.

see Ross and Ross, 1987

Rossen, Christine

1987 (and Sarg, J. Frederick) Sedimentology and regional correlation of a basinally restricted deep-water siliciclastic wedge—Brushy Canyon Formation—Cherry Canyon Tongue (lower Guadalupian), Delaware Basin (abs.): *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 5, p. 607

Rountree, Russ

1987 (and Keener, Will) 1986—a blister of a year for region: *Western Oil World*, v. 44, no. 6, p. 11, 13-17, 6 tables

Rowe, R. K.

1987 (and Armitage, H. H.) A new design method for

- drilled piers in soft rock—implications relating to three published case histories: *Internat. Soc. for Rock Mechanics*, 6th Congress, Montreal, Quebec, Canada, August 30–September 3, 1987, *Proc.*, v. 6, no. 1, p. 497–502, 1 table
- Rowley, John C.**
1987 (Hawkins, Ward L., and Gardner, Jamie N.) Drilling report first CSDP/thermal regimes core hole project at Valles caldera, New Mexico (VC-1): Los Alamos Natl. Lab., Rept. LA-10934-OBES, 66 p.
see Goff, Gardner, Shevenell, and Rowley, 1987; and Goff, Nielson, Gardner, Hulén, Lysne, Shevenell, and Rowley, 1987
- Roybal, Gretchen H.**
1987a Coal mining and production in New Mexico, in Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: *New Mexico Bureau Mines Mineral Resources*, Bull. 121, p. 35–36, 1 table, 2 figs.
1987b Road log for optional side trip to Fence Lake No. 1 mine north of Quemado, New Mexico, in Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: *New Mexico Bureau Mines Mineral Resources*, Bull. 121, p. 31
1987 (Anderson, Orin J., and Beaumont, Edward C., compilers) Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico: *New Mexico Bureau Mines Mineral Resources*, Bull. 121, 83 p.
1987 (Campbell, Frank W., Beaumont, Edward C., Cohen, Arthur D., Kuellmer, Frederick J., Kottowski, Frank E., and Cook, Kevin H.) Quality assessment of strippable coals in New Mexico, year II, phase II, Fruitland, Menefee, and Crevasse Canyon Formation coals in the San Juan Basin of northwestern New Mexico: *New Mexico Energy Research and Develop. Inst.*, Rept. 2-74-4331, 101 p.; *Natl. Tech. Inf. Serv.*, Rept. PB87 216 156
see Anderson, O. J., Chamberlin, and Roybal, 1987; and Campbell, F. W., and Roybal, 1987
- Rubin, Jeffrey N.**
1987 (Price, Jonathan G., Henry, Christopher D., and Koppelaar, David W.) Cryolite-bearing and rare metal-enriched rhyolite, Sierra Blanca Peaks, Hudspeth County, Texas: *Am. Mineralogist*, v. 72, p. 1122–1130
- Ruddiman, W. F.**
1987 (and Wright, H. E., Jr., editors) North America and adjacent oceans during the last deglaciation: *Geol. Soc. America, The Geology of North America*, v. K-3, 501 p.
- Ruiz, Joaquin**
1987 (Patchett, P. Jonathan, Reece, Cady, and Duffield, Wendell A.) Nd-Sr isotopic composition of high-silica, fluorine-rich rhyolites and associated volcanics in extensional environments (abs.): *Am. Geophys. Union (EOS), Trans.*, v. 68, no. 44, p. 1512
see Reece, Ruiz, Patchett, and Burt, 1987
- Rush, P. F.**
see Chafetz, Rush, and Schoderbek, 1987
- Russo, Joseph F.**
1987 Influence of framework grain composition on sandstone diagenesis, Lobo Formation (Tertiary), southern New Mexico: M.S. thesis, Univ. Texas (El Paso)
- Ryan, George S.**
see Richter, Saltus, and Ryan, 1987
- Rye, R. O.**
see Landis, Hofstra, Leach, and Rye, 1987
- Saad, William J.**
1987 Managing an irrigation district, in *Managing the river—proceedings of the thirty-first annual New Mexico water conference*, L. G. Harris, editor: *New Mexico State Univ., Water Resources Research Inst.*, Rept. WRRRI-219, p. 73–79
- Saavedra, Paul**
1987 Surface water organizations in New Mexico: *New Mexico State Engineer*, Rept. TDDC-87-2, 152 p.
- Sabol, George V.**
1987 (Bouwer, Herman, and Wierenga, Peter J.) Irrigation effects in Arizona and New Mexico: *Jour. of Irrigation and Drainage Engineering*, v. 113, no. 1, p. 30–48, 7 tables, 1 fig.; *abs. in Sel. Water Resources Abs.*, v. 20, no. 8, p. 67
- Sachtleben, Laurie**
1987 The lady's got legs: *Chevron Focus*, v. 49, no. 4, p. 16–19
- Sahagian, Dork**
1987 Epeirogeny and eustatic sea level changes as inferred from Cretaceous shoreline deposits—applications to the central and western United States: *Jour. Geophys. Research*, v. 92, no. B6, p. 4895–4904, 4 figs.
- Sainato, Albert**
see Kravits, Sainato, and Finfinger, 1987
- Saller, Arthur H.**
1987 (Barton, Jane W., and Barton, Rickey E.) Slope sedimentation associated with a vertically building shelf, Bone Spring Formation, Mescalero Escarpe field, southeast New Mexico (abs.): *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 5, p. 609–610; *abs. also in West Texas Geol. Soc., Bull.*, 1988, v. 27, no. 7, p. 20
- Saltus, Richard W.**
see Leibold, Saltus, Grauch, Lindsey, and Almquist, 1987; Richter, Saltus, and Korzeb, 1987; and Richter, Saltus, and Ryan, 1987
- Sanchez, Christopher**
1987 (and Wood, M. Karl) The relationship of soil surface roughness with hydrologic variables on natural and reclaimed range land in New Mexico: *Jour. Hydrology*, v. 94, nos. 3/4, p. 345–354, 7 tables, 1 fig.
- Sandia National Laboratories**
1987 Multiwell experiment—I, the marine interval of the Mesaverde Formation—final report: *Sandia Natl. Lab.*, Rept. SAND87-0327, 274 p.; *Natl. Tech. Inf. Serv.*, Rept. DE87 009 389
- Sandidge, Michael**
see LeMone, Sandidge, Fararro, Kiely, Bullock, and Sivils, 1987a,b
- Sanford, Allan R.**
1987 (Ake, Jon, Jarpe, Stephen, and Jaksha, Lawrence) Socorro, New Mexico area earthquakes, 1983, in *United States earthquakes, 1983*, C. W. Stover, editor: *U.S. Geol. Survey, Bull.* 1698, p. 142–143
1987 (Jaksha, Lawrence, and Cash, Dan J.) Seismicity of New Mexico, 1983, in *United States earthquakes, 1983*, C. W. Stover, editor: *U.S. Geol. Survey, Bull.* 1698, p. 141–142
see Ake and Sanford, 1987; Carpenter, Sanford, and Ake, 1987; King and Sanford, 1987; and King, Sanford, and Jaksha, 1987
- Sares, Steven W.**
1987 (and Wells, Stephen G.) Geomorphic and hydrogeologic development of the Gypsum Plain karst, Delaware Basin, New Mexico, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 98–117, 5 tables, 9 figs.
- Sarg, J. Frederick**
1987 (Romine, Karen, and Vail, Peter R.) Tectono-eus-

- tatic controls on carbonate platform development, Permian Basin outcrop-subsurface (abs.): *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 5, p. 610
see Rossen and Sarg, 1987
- Sartenaer, P.**
1987 *Insignitisinurostrum*, a new Rhynchonellida (Brachiopoda) genus, from the middle Famennian of New Mexico: *Sciences de la Terre*, v. 57, p. 83–88 (English summary)
- Sasaki, S.**
see Umieda and Sasaki, 1987
- Sass, J. H.**
see Munroe and Sass, 1987
- Sassos, Michael P.**
1987 New hinged-plate splicing reduces conveyor downtime at potash mine: *Eng. and Mining Jour.*, v. 188, no. 1, p. 43–44, 1 fig.
- Saulnier, George J., Jr.**
1987 Analysis of pumping tests of the Culebra Dolomite conducted at the H-11 hydropad at the Waste Isolation Pilot Plant (WIPP) site: Sandia Natl. Lab., Rept. SAND87-7124, 210 p., 12 tables, 46 figs., 3 appendices; *Natl. Tech. Inf. Serv.*, Rept. DE88 002 246
1987 (Freeze, G. A., and Stensrud, W. A.) WIPP hydrology program, Waste Isolation Pilot Plant, southeastern New Mexico—hydrologic data report 4: Sandia Natl. Lab., Rept. SAND86-7166
see Stensrud, Bame, Lantz, LaVenue, Palmer, and Saulnier, 1987
- Schaal, William C.**
1987 Petrography and geochemistry of Early Permian calcareous nodules of the Abo and Cutler Formations, south-central New Mexico and southwestern Colorado: M.S. thesis, New Mexico State Univ., 58 p.
- Scheffter, John E.**
see Alley and Scheffter, 1987
- Schermer, Elizabeth**
see Gans, Mahood, and Schermer, 1987
- Schiel, Kathryn M.**
1987 Investigations of the Dewey Lake Formation, Delaware Basin, New Mexico, in *Geology of the western Delaware Basin, west Texas and southeastern New Mexico*, D. W. Powers and W. C. James, editors: *El Paso Geol. Soc., Guidebook 18*, p. 149–156, 2 figs.
- Schillo, John C.**
1987 (Nicholson, Robert W., Hendron, Robert H., and Thomson, James C.) Redrilling of well EE-3 at the Los Alamos National Laboratory HDR (hot dry rock) project: Los Alamos Natl. Lab., Rept. LA-UR-87-2114, 8 p.; *Natl. Tech. Inf. Serv.*, Rept. DE87 011 753; *Geothermal Resources Coun., Trans.*, v. 11, p. 67
- Schlesinger, William H.**
1987 (Fonteyn, Paul J., and Marion, Giles M.) Soil moisture content and plant transpiration in the Chihuahuan Desert of New Mexico: *Jour. Arid Environments*, v. 12, no. 2, p. 119–126
- Schlue, John W.**
1987 (Hostettler, K. K., and Edwards, C. L.) Evidence from Rayleigh wave data for magma in an upper crustal dike in the Albuquerque-Belen Basin of the Rio Grande rift, New Mexico: *Jour. Geophys. Research*, v. 92, no. B9, p. 9281–9292, 5 tables, 11 figs.
see Hostettler and Schlue, 1987
- Schmidt, R. R.**
1987 Zeolites—their market potential and occurrence in New Mexico: New Mexico Energy and Minerals Dept., Bureau of Geology, Rept. Inv. 1, 68 p.
- Schneider, Gary B.**
see Mytton and Schneider, 1987
- Schoderbek, D.**
see Chafetz, Rush, and Schoderbek, 1987
- Schreyer, Werner**
1987 Pre- or synmetamorphic metasomatism in peraluminous metamorphic rocks?, in *Chemical transport in metasomatic processes*, H. C. Helgeson, editor: *NATO Advanced Study Inst. Ser. C, Mathematical and Physical Sci.*, v. 218, p. 265–296, 4 tables
- Schumm, Stanley A.**
see Gregory and Schumm, 1987
- Schwarzer, R. R.**
see Bayliss and Schwarzer, 1987a-ee
- Scott, Alan J.**
1987 A spectrum of late Paleozoic and Cretaceous shelf bars, western United States (abs.): *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 11, p. 1442
- Scott, David C.**
1987a Mineral investigation of additional parts of the Big Hatchet Mountains Wilderness Study Area (NM-030-035), Hidalgo County, New Mexico: U.S. Bureau Mines, Open-file Rept. MLA-61-87, 9 p., 2 tables, 1 fig.
1987b Mineral investigation of the Cowboy Spring Wilderness Study Area (NM-030-007), Hidalgo County, New Mexico: U.S. Bureau Mines, Open-file Rept. MLA-68-87, 10 p.
- Scott, Glenn R.**
see Manley, K., Scott, and Wobus, 1987
- Scott, William B.**
see Kernodle, Miller, and Scott, 1987
- Seager, William R.**
1987 Caldera-like collapse at Kilbourne Hole maar, New Mexico: *New Mexico Geology*, v. 9, no. 4, p. 69–73, 5 figs.
1987 (Hawley, John W., Kottowski, Frank E., and Kelley, Shari A.) Geology of east half of Las Cruces and northeast El Paso 1° × 2° sheets, New Mexico: *New Mexico Bureau Mines Mineral Resources, Geol. Map 57*, 5 sheets, scale 1:125,000
see Elston, Seager, and Abitz, 1987
- Seaman, Sheila J.**
1987a Chemical evolution of ash-flow tuffs and rhyolite flows in part of the Mogollon-Datil volcanic field, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 837
1987b Compositional facies of the Bloodgood Canyon Tuff, Mogollon-Datil volcanic field, southwestern New Mexico (abs.): *New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs*, p. 31; *abs. also in New Mexico Geology, 1988*, v. 10, no. 2, p. 43
1987 (and Elston, Wolfgang E.) A third caldera in the Gila Wilderness, SW New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 5, p. 333
- Self, Stephen A.**
1987 (Gardner, Jamie N., and Goff, Fraser) A field guide to the Jemez Mountains volcanic field, New Mexico, in *Geologic diversity of Arizona and its margins—excursions to choice areas*, G. H. Davis and E. M. Vanden-Dolder, editors: *Arizona Bureau Geology Mineral Tech., Spec. Paper 5*, p. 95–112, 13 figs.
1987 (and Turbeville, Bruce N.) Vent sites and flow directions of the Otowi ash flows (lower Bandelier Tuff), New Mexico—discussion: *Geol. Soc. America, Bull.*, v. 99, no. 4, p. 601–602
see Franklin, R. R., Self, and Wolff, 1987; Wolff, Balsley, Kuentz, Self, and Kyle, 1987; and Wolff, Self, Kyle, and Gardner, 1987
- Semken, Holmes A., Jr.**
see Graham, Semken, and Graham, 1987
- Senger, Rainer K.**
1987 (and Fogg, Graham E.) Regional underpressuring

- in deep brine aquifers, Palo Duro Basin, Texas—pt. 1, effects of hydrostratigraphy and topography: *Water Resources Research*, v. 23, no. 8, p. 1481–1493, 2 tables, 11 figs.
- 1987 (Kreitler, Charles W., and Fogg, Graham E.) Regional underpressuring in deep brine aquifers, Palo Duro Basin, Texas—pt. 2, the effect of Cenozoic Basin development: *Water Resources Research*, v. 23, no. 8, p. 1494–1504, 2 tables, 10 figs.
- Senseny, P. E.**
see Stroup and Senseny, 1987
- Serrag, Salaheddin A.**
1987 An assessment of erosion processes as simulated using artificial rainfall—Southwest conditions: Ph.D. dissertation, New Mexico State Univ., 173 p.
- Sewards, Terry**
see Smith, K. L., Mackinnon, and Swards, 1987
- Shafiqullah, Muhammad**
see Baldrige, Perry, and Shafiqullah, 1987; Baldrige, Vaniman, and Shafiqullah, 1987; Ingersoll, Cavazza, Baldrige, and Shafiqullah, 1987; and Leavy and Shafiqullah, 1987
- Shannon, J. R.**
1987 (Naeser, C. W., DeWitt, Ed, and Wallace, A. R.) Timing of Cenozoic magmatism and tectonism in the Sawatch uplift and northern Rio Grande rift, Colorado (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 839
- Sharp, W. N.**
see Richter, Houser, Watts, Klein, Sharp, Drewes, Hedlund, Raines, and Hassemer, 1987
- Sharp, William**
see Lueth, Goodell, Llavona, Mertig, and Sharp, 1987
- Shelton, Shareen G.**
see McAda and Shelton, 1987
- Shepherd, Russell G.**
1987a Lateral accretion surfaces in ephemeral-stream point bars, Rio Puerco, New Mexico, in Recent developments in fluvial sedimentology, F. C. Ethridge, R. M. Flores, and M. D. Harvey, editors: *Soc. Econ. Paleontologists and Mineralogists, Spec. Publ. 39*, p. 93–98, 7 figs.
1987b Lateral flow regime change from plane bed to ripples at constant depth, ephemeral Rio Puerco, New Mexico (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 841
- Sheppard, Richard A.**
1987 (Eyde, Ted H., and Barclay, C. S. Venable) Geology, mineralogy, and mining of the Bowie zeolite deposit, Graham and Cochise Counties, Arizona, in *Zeo-trip '87—an excursion to selected zeolite and clay deposits in southwestern New Mexico and eastern Arizona*, F. A. Mumpston, editor: *Internat. Comm. Nat. Zeolites*, Brockport, New York, p. 27–46, 2 tables
1987 (and Gude, Arthur J., III) Mineralogy and genesis of the Buckhorn zeolite deposit, Grant County, New Mexico, in *Zeo-trip '87—an excursion to selected zeolite and clay deposits in southwestern New Mexico and eastern Arizona*, F. A. Mumpston, editor: *Internat. Comm. Nat. Zeolites*, Brockport, New York, p. 13–26
- Shevenell, Lisa A.**
1987 (Goff, Fraser, Vuataz, Francois, Trujillo, Patricia E., Jr., Counce, Dale A., Janik, Cathy J., and Evans, William D.) Hydrogeochemical data for thermal and non-thermal waters and gases of the Valles caldera—southern Jemez Mountains region, New Mexico: *Los Alamos Natl. Lab., Rept. LA-10923-OBES*, 100 p.
see Goff, Gardner, Shevenell, and Rowley, 1987; Goff, Nielson, Gardner, Hulen, Lysne, Shevenell, and Rowley, 1987; Goff and Shevenell, 1987; Goff, Shevenell, and Gardner, 1987; and Trujillo, Counce, Grigsby, Goff, and Shevenell, 1987
- Shields, Marleen**
see Holcomb and Shields, 1987
- Shoemaker, D. R.**
see Agapito and Shoemaker, 1987
- Shoemaker, Eugene M.**
1987 (Pillmore, Charles L., and Peacock, Edward W.) Remanent magnetization of rocks of the latest Cretaceous and earliest Tertiary age from drill core at York Canyon, New Mexico, in *The Cretaceous–Tertiary boundary in the San Juan and Raton Basins, New Mexico and Colorado*, J. E. Fassett and J. K. Rigby, Jr., editors: *Geol. Soc. America, Spec. Paper 209*, p. 131–150, 4 tables, 9 figs.
- Shollenbarger, Ray, Jr.**
1987 The evolution of the Middle Rio Grande Conservancy District, in *Managing the river—proceedings of the thirty-first annual New Mexico water conference*, L. G. Harris, editor: *New Mexico State Univ., Water Resources Research Inst., Rept. WRRRI-219*, p. 70–72
- Shomaker, John W.**
1987 Assessment of the impact of the 90 AFY ground-water appropriation (G-3–Enlgd) proposed by Giant Industries, Inc. at Ciniza, New Mexico: consult. rept. to Giant Industries, Inc., 22 p.
1987 (and Newcomer, Robert W., Jr.) Water supply in southern San Juan Basin, New Mexico, in *Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico*, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: *New Mexico Bureau Mines Mineral Resources, Bull. 121*, p. 49–54, 2 figs.
- Shroba, Ralph R.**
1987 Trends in B-horizon development and soil-clay mineralogy in late Quaternary tills and periglacial deposits at Lake Peak, southern Sangre de Cristo Range, New Mexico, in *Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico*, C. Menges, editor: *Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf.*, p. 193–194
- Shuey, Chris**
1987 (Rich, Susan, and Bean, Kevin) Ground water contamination in New Mexico—“seeing” what it’s all about: *The Workbook*, v. 12, no. 2, p. 44–53
- Shukolyukov, Yu A.**
1987 (Meshik, A. P., Pravdivtseva, O. V., and Verkhovskiy, A. B.) Izotopnyye anomalii ksenona i kriptonu v prirodnom yadernom reaktore i episentre yadernogo vzryva (Xenon and krypton isotopic anomalies in a natural reactor and in the epicenter of a nuclear test): *Atomnaya Energiya*, v. 63, no. 6, p. 389–397, 6 tables
1987 (Meshik, A. P., Pravdivtseva, O. V., Verkhovskiy, A. B., and Kryuchkova, O. I.) Oprendeleniye isotopnogo sostava Xe i Kr v episentre pervogo atomnogo vzryva (Alamogordo, N’yu–Mekshiko, SShA) i proiskhozhdeniye izotopnykh anomalii v prirodnom yadernom reaktore (Oklo, Respublika Gabon, Afrika) [Determination of isotopic composition of Xe and Kr in the epicenter of the first atomic explosion (Alamogordo, New Mexico, USA) and the origin of isotopic anomalies in a natural nuclear reactor—Oklo, Gabon, Africa]: *Geokhimiya*, v. 1987, no. 2, p. 1694–1705, 7 tables (English summary)
- Siems, David F.**
see Jones, Kilburn, Zimbelman, and Siems, 1987
- Sigler, Stella**
see Moore, B. J., and Sigler, 1987a,b
- Sikkink, Pamela G. L.**
1987 Lithofacies relationships and depositional environment of the Tertiary Ojo Alamo Sandstone and related

- strata, San Juan Basin, New Mexico and Colorado, in *The Cretaceous-Tertiary boundary in the San Juan and Raton Basins, New Mexico and Colorado*, J. E. Fassett and J. K. Rigby, Jr., editors: Geol. Soc. America, Spec. Paper 209, p. 81-104, 3 tables, 12 figs., 3 pls.
- Silva, M. K.**
see Orr, F. M., and Silva, 1987
- Silver, Leon T.**
1987 A Proterozoic history for southwestern North America (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 845
- Simmons, Nancy B.**
1987 A revision of *Taeniolabis* (Mammalia: Multituberculata), with a new species from the Puercan of eastern Montana: Jour. Paleontology, v. 61, no. 4, p. 794-808, 6 figs., 4 tables
- Simpson, C.**
see Gibson, Harris, Eriksson, and Simpson, 1987
- Sinor Consultants, Inc.**
1987 Assessment of technological development strategies for San Juan Basin coals: New Mexico Research and Develop. Inst., Rept. 2-74-4629, 702 p.; Natl. Tech. Inf. Serv., Rept. PB87 183 638
- Sipiera, Paul P.**
1987 (Becker, Mary J., and Dod, B. D.) Preliminary classification of an additional eight chondrites from Roosevelt County, New Mexico (abs.): Meteoritics, v. 22, no. 4, p. 504, 1 table
1987 (Becker, Mary J., and Kawachi, Yosuke) Classification of twenty-six chondrites from Roosevelt County, New Mexico: Meteoritics, v. 22, no. 2, p. 151-155, 2 tables
- Sivils, David**
see LeMone, Sandidge, Fararro, Kiely, Bullock, and Sivils, 1987a,b
- Sjaardema, G. D.**
1987 (and Krieg, R. D.) A constitutive model for the consolidation of WIPP crushed salt and its use in analyses of backfilled shaft and drift configurations: Sandia Natl. Lab., Rept. SAND87-1977, 72 p.
- Skinner, M. F.**
see Tedford, Skinner, Fields, Rensberger, Whistler, Galusha, Taylor, Macdonald, and Webb, 1987
- Slater, P. N.**
see Teillet, Slater, Jackson, Fedosejevs, and Moran, 1987
- Sloan, Robert E.**
1987 Paleocene and latest Cretaceous mammal ages, biozones, magnetozones, rates of sedimentation, and evolution, in *The Cretaceous-Tertiary boundary in the San Juan and Raton Basins, New Mexico and Colorado*, J. E. Fassett and J. K. Rigby, Jr., editors: Geol. Soc. America, Spec. Paper 209, p. 165-200, 5 tables, 15 figs.
- Smith, Brian M.**
see Bennett, DePaolo, and Smith, 1987
- Smith, Carl J.**
see Friedman, Jones, Treworgy, and Smith, 1987
- Smith, D. Anderson**
see Nativ and Smith, 1987
- Smith, Douglas M.**
see Williams, F. L., and Smith, 1987
- Smith, Frank C.**
1987 Geology, mineralization, and exploration potential of the McGhee Peak area, San Simon mining district, Hidalgo County, New Mexico: M.S. thesis, Univ. New Mexico, 176 p.
- Smith, K. J.**
see Handschy, Keller, and Smith, 1987
- Smith, Katherine L.**
1987 (Mackinnon, Ian D. R., and Sowards, Terry) Analytical electron microscopy of clays from the Rustler Formation, south-east New Mexico (abs.): Clay Minerals Soc., Ann. Mtg., Program and Abs., v. 24, p. 120
- Smith, Larry N.**
1987a Fluvial architecture and syntectonic sedimentation adjacent to Nacimiento uplift, San Juan Basin, NM (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 850
1987b Fluvial sedimentology of sheet sandstones—lower Eocene San Jose Formation, New Mexico (abs.): Soc. Econ. Paleontologists and Mineralogists, Midyear Mtg., Abs. with Programs, v. 4, p. 78
1987c Paleosols of the lower Eocene Regina and Tapicitos Members, San Jose Formation, SE San Juan Basin, NW New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 335
- Smith, M. R.**
see Goodrich, Keil, Berkley, Laul, Smith, Wacker, Clayton, and Mayeda, 1987
- Smith, Morton C.**
1987 Hot dry rock geothermal energy program: Los Alamos Natl. Lab., Rept. LALP-87-16, 5 p.; Natl. Tech. Inf. Serv., Rept. DE88 000 070
see Brown, D. W., Franke, Smith, and Wilson, 1987; and Whetten, Dennis, Dreesen, House, Murphy, Robinson, and Smith, 1987
- Smith, R. W.**
see Norman, Condie, Smith, and Thomann, 1987
- Smith, S.**
see Leavy, Phillips, Smith, Jannik, Elmore, and Kubik, 1987
- Smyth, A. H.**
see Ni and Smyth, 1987
- Sneddon, John W.**
see Nummedal and Sneddon, 1987
- Snoparsky, Mindi B.**
1987 The Exeter (Entrada) Sandstone in Cimarron County, Oklahoma and adjacent parts of New Mexico, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 12-13
- Snyder, Richard P.**
see Mercer, Beauheim, Snyder, and Fairer, 1987
- Soegaard, Kristian**
1987 (and Caldwell, K. R.) Tectonic vs. sediment load-induced subsidence within craton-interior fracture basins—late Paleozoic Taos trough, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 852
see Ude and Soegaard, 1987
- Sommer, Michael A., II**
see Loucks and Sommer, 1987
- Sorauf, James E.**
1987 The rugose coral *Tabulophyllum traversensis* from the Onate Formation (Middle Devonian) of the Mud Springs Mountains, New Mexico: Jour. Paleontology, v. 61, no. 1, p. 14-20, 8 figs.
- Soulliere, Sandra J.**
1987 (Long, Carl L., and Tuftin, Steven E.) Mineral resources of the Ojito and Cabezon Wilderness Study Areas, Sandoval County, New Mexico: U.S. Geol. Survey, Bull. 1733-B, 14 p., 6 figs, 1 appendix, 1 sheet, scale 1:50,000
- Sparling, Edward**
see Mann, Sparling, and Young, 1987
- Spell, Terry L.**
1987 Geochemistry of Valle Grande Member ring fracture rhyolites, Valles caldera, New Mexico: M.S. thesis, New Mexico Inst. Mining and Tech., 212 p., 8 tables, 45 figs., 8 appendices
1987 (and Kyle, Philip R.) Evolution of the post-Ban-

- delier Tuff magma system, Valles caldera, New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 28; *abs. also in New Mexico Geology*, 1988, v. 10, no. 2, p. 42-43
- 1987 (Kyle, Philip R., and Gardner, Jamie N.) Petrogenesis of Valle Grande Member high-silica rhyolites, Valles caldera, New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 852
- Spencer, Ronald J.**
see Lowenstein and Spencer, 1987
- Spirakis, Charles S.**
1987 (and Hansley, Paula L.) Diagenesis of amorphous organic matter as an essential aspect of genesis and alteration of tabular-type uranium-vanadium deposits, Colorado Plateau (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 71, no. 5, p. 616
- Srivastava, V.**
see Chylek, Srivastava, Cahenzli, Pinnick, and Dod, 1987
- Staatz, Mortimer H.**
1987 Geologic map of the Tres Hermanos Peak quadrangle, Colfax County, New Mexico: U.S. Geol. Survey, Geol. Quad. Map GQ-1605, 1 sheet, scale 1:24,000
- Stageman, J. Christopher**
1987a Depositional facies and provenance of lower Paleozoic sandstones of the Bliss, El Paso, and Montoya Formations, southern New Mexico and west Texas: M.S. thesis, New Mexico State Univ., 101 p., 1 pl.
1987b Depositional facies, provenance, and paleogeography of the Bliss Formation (Cambro-Ordovician), southern New Mexico and west Texas (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 854
- Stein, Carol L.**
see Krumhansl and Stein, 1987a,b
- Stensrud, W. A.**
1987 (Bame, M. A., Lantz, K. D., LaVenue, A. M., Palmer, J. B., and Saulnier, G. J., Jr.) WIPP hydrology program, Waste Isolation Pilot Plant, southeastern New Mexico—hydrologic data report 5: Sandia Natl. Lab., Rept. SAND87-7125, 635 p.; Natl. Tech. Inf. Serv., Rept. DE88 003 613
see Saulnier, Freeze, and Stensrud, 1987
- Stephens, Daniel B.**
1987 (Cox, Warren, and Havlena, Jeffrey) Field study of ground-water and soil-water responses to ephemeral stream infiltration (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 16, p. 306-307
see McCord and Stephens, 1987
- Stephens, Diane M.**
see Luckey and Stephens, 1987
- Sternberg, Robert S.**
1987 Archaeomagnetism and magnetic anomalies in the American Southwest: Geophysics, v. 52, no. 3, p. 368-371
- Stevenson, Gene M.**
1987 (and Baars, Donald L.) The Paradox—a pull-apart basin of Pennsylvanian age, in Geology of Cataract Canyon and vicinity—field symposium, J. A. Campbell, editor: Four Corners Geol. Soc., Guidebook 10th field conf., p. 31-50
- Stoker, Alan K.**
see Purtymun and Stoker, 1987; and Purtymun, Stoker, and Maes, 1987
- Stone, William J.**
1987a Paleorecharge, climathydrologic variability, and water-resource management, in The influence of climate change and climatic variability on the hydrologic regime and water resources: Internat. Assoc. Hydrogeologists, Publ. 168, p. 143-152, 1 table, 3 figs.; *abs. in Internat. Union of Geodesy and Geophysics, General Assembly XIX*, v. 3, p. 913
1987b Phase III recharge study at the Navajo mine—impact of mining on recharge: New Mexico Bureau Mines Mineral Resources, Open-file Rept. 282, 35 p.
1987 (and McGurk, Brian E.) Hydrogeologic considerations in mining, Nations Draw area, Salt Lake coal field, New Mexico, in Coal deposits and facies changes along the southwestern margin of the Late Cretaceous seaway, west-central New Mexico, G. H. Roybal, O. J. Anderson, and E. C. Beaumont, compilers: New Mexico Bureau Mines Mineral Resources, Bull. 121, p. 73-78, 1 table, 6 figs.
1987 (and Summers, W. K.) Hydrogeology in river management, Rio Grande valley, New Mexico, in Managing the river—proceedings of the thirty-first annual New Mexico water conference, L. G. Harris, editor: New Mexico State Univ., Water Resources Research Inst., Rept. WRRRI-219, p. 145-179, 1 table, 8 figs.
- Stormer, John C., Jr.**
1987 Capulin Mountain volcano and the Raton-Clayton volcanic field, northeastern New Mexico, in Rocky Mountain Section of the Geological Society of America, S. S. Beus, editor: Geol. Soc. America, Centennial Field Guide, v. 2, p. 421-424, 2 figs.
- Stormont, John C.**
1987 Small-scale seal performance test series "A" thermal/structural data through the 180th day: Sandia Natl. Lab., Rept. SAND87-0178, 48 p.
1987 (and Howard, C. L.) Development, implementation, and early results—test series C of the small-scale seal performance tests: Sandia Natl. Lab., Rept. SAND87-2203, 66 p.
1987 (Peterson, E. W., and Lagus, P. L.) Summary of and observations about WIPP (Waste Isolation Pilot Plant) facility horizon flow measurements through 1986: Sandia Natl. Lab., Rept. SAND87-0176, 75 p.; Natl. Tech. Inf. Serv., Rept. DE87 011 611
see Borns and Stormont, 1987; Nowak and Stormont, 1987; and Van Sambeek and Stormont, 1987
- Stricker, Gary D.**
see Anderson, O. J., and Stricker, 1987
- Strom, E. Thomas**
1987 (and Vogt, Thomas C.) In-situ leaching of Crownpoint, NM, uranium ore—pt. 7, laboratory study of chemical agents for molybdenum restoration: Jour. Petroleum Tech., v. 39, no. 10, p. 1301-1305, 4 tables, 2 figs.
- Stroup, D. E.**
1987 (and Senseny, P. E.) Influence of bentonite content on consolidation and permeability of crushed salt from the WIPP: RE/SPEC Inc., consult. rept. to Sandia Natl. Lab., Rept. RSI-0309
- Stucky, R. K.**
see Krishtalka, West, Black, Dawson, Flynn, Turnbull, Stucky, McKenna, Bown, Golz, and Lillegraven, 1987
- Stump, B. W.**
see Bogaards, Stump, and Herrin, 1987
- Sullivan, George E.**
1987a (and Barker, Colin) Chemical and volatile analysis of the Banco Bonito obsidian, Valles caldera, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 44, p. 1512
1987b (and Barker, Colin) Volatile content of fluid inclusions in rhyolites and calcite veins from the VC-1 core hole, Valles caldera, New Mexico (abs.): Am. Current Research on Fluid Inclusions (ACROFI) mtg., Socorro, New Mexico, January 5-7, 1987, Program and Abs., unpaginated

- Sullivan, Michael W.**
see Kirk and Sullivan, 1987
- Sullivan, Robert M.**
1987 A reassessment of reptilian diversity across the Cretaceous–Tertiary boundary: Natural History Museum of Los Angeles County, *Contr. Sci.*, no. 391, 26 p.
1987 (and Lucas, Spencer G.) Early Eocene lizards and snakes from the San Jose Formation, San Juan Basin, New Mexico (abs.): *Jour. Vertebrate Paleontology*, v. 7, supplement to no. 3, p. 27A
see Lucas, Holbrook, Sullivan, and Hayden, 1987; and Lucas and Sullivan, 1987
- Summers, W. K.**
see Stone and Summers, 1987
- Sutherland, Patrick K.**
see Clopine, Manger, and Sutherland, 1987; and Manger, Sutherland, and Clopine, 1987
- Swan, Monte M.**
see Keith and Swan, 1987
- Swanson, Steven C.**
see Cossey, Swanson, and Boyer, 1987
- Swift, Donald J. P.**
see Nummedal and Swift, 1987a,b
- Taber, Joseph J.**
see Heller, Kovarik, and Taber, 1987
- Talbot, C. J.**
1987 (and Jackson, M. P. A.) Internal kinematics of salt diapirs: *Am. Assoc. Petroleum Geologists, Bull.*, v. 71, no. 9, p. 1068–1093, 18 figs.
- Tanner, B. D.**
see Weeks, E. P., Weaver, Campbell, and Tanner, 1987
- Taylor, B. E.**
see Tedford, Skinner, Fields, Rensberger, Whistler, Galusha, Taylor, Macdonald, and Webb, 1987
- Taylor, Dwight W.**
1987 Fresh-water molluscs from New Mexico and vicinity: *New Mexico Bureau Mines Mineral Resources, Bull.* 116, 50 p., 51 tables, 24 figs.
- Tedford, Richard H.**
1987 (Skinner, M. F., Fields, R. W., Rensberger, J. M., Whistler, D. P., Galusha, T., Taylor, B. E., Macdonald, J. R., and Webb, S. D.) Faunal succession and biochronology of the Arikarean through Hemphillian interval (late Oligocene through earliest Pliocene Epochs) in North America, in *Cenozoic mammals of North America—geochronology and biostratigraphy*, M. O. Woodburne, editor: Berkeley, Univ. California Press, p. 153–210
- Teillet, P. M.**
1987 (Slater, P. N., Jackson, R. D., Fedosejevs, G., and Moran, M. I.) Reflectance measurements at White Sands, New Mexico, using a mobile spectroscopy laboratory, in *Proceedings of the eleventh Canadian symposium on remote sensing*, P. J. Howarth, editor: *Compte Rendu du Symposium Canadien sur la Teledetection*, v. 11, nos. 1–2, p. 441–450, 2 tables
- Thelin, Gail P.**
1987 (and Heimes, Frederick J.) Mapping irrigated cropland from Landsat data for determination of water use from the High Plains aquifer in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming: *U.S. Geol. Survey, Prof. Paper* 1400–C, p. C1–C8, 7 tables, 1 sheet, scale 1:2,500,000
- Thiers, G. R.**
see D'Antonio, Caldwell, and Thiers, 1987
- Thomann, W. F.**
see Norman, Condie, Smith, and Thomann, 1987
- Thomas, Edward V.**
see Goetz, Abeyta, and Thomas, 1987
- Thompson, D.**
see Millard, Pei, Felicetti, Gray, Thompson, and Phelan, 1987
- Thompson, Joe L.**
1987 Laboratory and field studies related to the radionuclide migration project—October 1, 1985–September 30, 1986: *Los Alamos Natl. Lab., Rept. LA-11081-PR*, 28 p.
- Thompson, R. N.**
see Duncker, Wolff, Harmon, Leat, Thompson, and Baldrige, 1987
- Thompson, Ren A.**
1987 (and Johnson, C. M.) Oligocene basaltic volcanism of the San Luis Hills, northern Rio Grande rift, Colorado (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 868
- Thompson, Robert S.**
see Van Devender, Thompson, and Betancourt, 1987
- Thomson, James C.**
see Schillo, Nicholson, Hendron, and Thomson, 1987
- Tidwell, William D.**
see Ash and Tidwell, 1987
- Tieh, Thomas T.**
see Kirkland, Lighty, Rezak, and Tieh, 1987
- Tierney, Gail D.**
see Wenzel, Foxx, Gallegos, Tierney, and Rodgers, 1987
- Tillman, Ned**
1987 Surface geochemistry enigmas: *Oil and Gas Jour.*, v. 85, no. 45, p. 87–89
- Titley, Spencer R.**
1987 An overview of Proterozoic metallogenesis in the southwestern United States (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 870
- Tomasko, David**
1987 The effects of a bimodal pore distribution on matrix diffusion in a fractured porous medium: *Sandia Natl. Lab., Rept. SAND87-0265*, 28 p., 2 tables
1987 (and Jensen, A. Lee) A linear-flow interpretation of the H-3 multiwell pumping test conducted at the Waste Isolation Pilot Plant (WIPP) site: *Sandia Natl. Lab., Rept. SAND87-0630*, 37 p.; *Natl. Tech. Inf. Serv., Rept. DE87 013 842*
1987 (Reeves, M., Kelley, V. A., and Pickens, J. F.) Parameter sensitivity and importance for radionuclide transport in double-porosity systems: *Sandia Natl. Lab., Rept. SAND87-0685C*; *Natl. Tech. Inf. Serv., Rept. DE87 013 938*
- Tomczyk, Tom**
1987 (and Morgan, Paul) Evaluation of the thermal regime of the Valles caldera, New Mexico, U.S.A., by downward continuation of temperature data: *Tectonophysics*, v. 134, no. 4, p. 339–345, 1 table, 5 figs.
- Torres, Teresa M.**
see Argüello and Torres, 1987; and Munson, Torres, and Jones, 1987
- Touyinhthiphonexay, Kimball C. N.**
1987 A statistical analysis of discontinuous arroyos in northwest New Mexico, U.S.A.—topographic, lithographic, and vegetational controls: *Ph.D. dissertation, Pennsylvania State Univ.*, 75 p.; *abs. in Dissert. Abs. Internat.*, 1988, v. 49, no. 4, p. 1064–1065
- Trainor, D. M.**
see Mucciarone, Trainor, and Williams, 1987
- Trauger, Frederick D.**
1987 K-Ar dates on a basalt flow and a vent plug in north-central Harding County, New Mexico, in *North-eastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: *New Mexico Geol. Soc., Guidebook 38th field conf.*, p. 37–38

- 1987 (and Churan, Kenneth R.) Geohydrology of the Roy-Solano area, Harding County, New Mexico, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 295-315, 4 tables, 9 figs.
- 1987 (and Kelly, T. E.) Water resources of the Capulin topographic basin, Colfax and Union Counties, New Mexico, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 285-293, 2 tables, 5 figs.
see Lucas, Hunt, Kues, Trauger, and Holbrook, 1987
- Treworgy, Colin G.**
see Friedman, Jones, Treworgy, and Smith, 1987
- Trujillo, A. D.**
see Wunder and Trujillo, 1987
- Trujillo, Patricio E., Jr.**
1987 (Counce, Dale A., Grigsby, Charles O., Goff, Fraser, and Shevenell, Lisa A.) Chemical analysis and sampling techniques for geothermal fluids and gases at the Fenton Hill laboratory: Los Alamos Natl. Lab., Rept. LA-11006-MS, 87 p.; Natl. Tech. Inf. Serv., Rept. DE87 014 707
see Robinson, B. A., Aguilar, Kanaori, Trujillo, Counce, Birdsell, and Matsunaga, 1987; and Shevenell, Goff, Vuatuz, Trujillo, Counce, Janik, and Evans, 1987
- Tsang, C. F.**
see Morrison, Majer, and Tsang, 1987
- Tuftin, Steven E.**
see Soulliere, Long, and Tuftin, 1987
- Turbeville, Bruce N.**
see Self and Turbeville, 1987
- Turmelle, Thomas J.**
see Dufford, Burdick, Garvey, Gibson, Grimes, Pausé, and Turmelle, 1987a,b
- Turnbull, W. D.**
see Krishtalka, West, Black, Dawson, Flynn, Turnbull, Stucky, McKenna, Bown, Golz, and Lillegraven, 1987
- Turner, Frederick**
1987 Slowly sinking in the West: Wilderness, Fall issue, p. 47-50, 3 figs.
- Turner, Robert L.**
see Delaney, T. A., Day, Turner, and Jones, 1987; and Jones, Turner, and Day, 1987
- Turner-Peterson, Christine E.**
1987 Sedimentology of the Westwater Canyon and Brushy Basin Members, Upper Jurassic Morrison Formation, Colorado Plateau, and relationship to uranium mineralization: Ph.D. dissertation, Univ. Colorado, 169 p.; *abs. in Dissert. Abs. Internat.*, v. 48, no. 5, p. 1281-B
1987 (Fishman, Neil S., and Owen, D. E.) Zonation of clay minerals in a Jurassic playa-lake setting—a case for low-temperature formation of illite (*abs.*): Soc. Econ. Paleontologists and Mineralogists, Midyear Mtg., *Abs. with Programs*, v. 4, p. 85
see Fishman, Turner-Peterson, and Owen, 1987; and Peterson, F., and Turner-Peterson, 1987
- Tyburski, J. R.**
see Deal, Case, Deshler, Drez, Myers, and Tyburski, 1987
- Ude, S. C.**
1987 (and Soegaard, Kristian) Braid delta facies characterization in mid-Pennsylvanian Madera Formation, Taos trough, northern New Mexico (*abs.*): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 873
- Uhland, D. W.**
1987 (Randall, W. S., and Carrasco, R. C.) Annual water quality data report for the Waste Isolation Pilot Plant: U.S. Dept. Energy, rept. prepared by Westinghouse Electric Corp. for U.S. Dept. Energy, Rept. DOE-WIPP-87-006; Natl. Tech. Inf. Serv., Rept. DE88 000 255
see Banz, Bradshaw, Cockman, Fisher, Prince, Rodriguez, and Uhland, 1987
- Umieda, H.**
1987 (and Sasaki, S.) Development of rock fracture evaluation technique for hot-dry-rock system—expansion of fracture estimated from AE measurements made during large-scale hydraulic fracturing test: Tokyo, Japan, Central Research Inst. of Electric Power Industry, Rept. CRIE-U-86043, 36 p., 5 tables, 18 figs., 1 pl. (in Japanese); Natl. Tech. Inf. Serv., Rept. DE88 752 542
- U.S. Bureau of Land Management**
1987 Salinity control on BLM-administered public lands in the Colorado River basin: U.S. Bureau Land Management, Rept. BLM/YA/PT-87/019-7000, 43 p.
- U.S. Bureau of Land Management, Phoenix and Safford Districts**
1987 Proposed wilderness program for the Arizona Mohave Wilderness Areas—Greenlee, Maricopa, Mohave, Pima, Pinal, and Yavapai Counties, Arizona and Grant County, New Mexico: U.S. Bureau Land Management, Draft environmental impact statement, 196 p.
- U.S. Department of Energy, Uranium Mill Tailings Remedial Action Project**
1987 Environmental assessment of remedial action at the Ambrosia Lake uranium mill tailings site, Ambrosia Lake, New Mexico: U.S. Dept. Energy, Uranium Mill Tailings Remedial Action Project Office, Rept. DOE/EA-0322, 95 p., 21 tables, 12 figs., 5 appendices; Natl. Tech. Inf. Serv., Rept. DE87 011 997; *abs. in Sel. Water Resources Abs.*, 1988, v. 21, no. 8, p. 133
- U.S. Geological Survey**
1987a Aeromagnetic map of the Big Hatchet Mountains and vicinity, southwestern New Mexico: U.S. Geol. Survey, Open-file Rept. 87-335, 1 sheet, scale 1:50,000
1987b Aeromagnetic map of the Horse Springs area, western New Mexico: U.S. Geol. Survey, Open-file Rept. 87-338, 1 sheet, scale 1:50,000
1987c Aeromagnetic map of the Sabinoso area, north-eastern New Mexico: U.S. Geol. Survey, Open-file Rept. 87-334, 1 sheet, scale 1:50,000
1987d Annual report to the Pecos River Commission on investigations being made in New Mexico and Texas, calendar year 1986: U.S. Geol. Survey, New Mexico District, rept., 20 p.
1987e Report of the Rio Grande Compact Commission, 1986: U.S. Geol. Survey, New Mexico District, rept., 55 p.
- U.S. Soil Conservation Service**
1987 (and National Weather Service) Water supply outlook for the western United States: U.S. Dept. Agriculture, Soil Conserv. Serv., rept., 13 p.
- Upchurch, Garland R., Jr.**
1987 (and Wolfe, J. A.) Plant extinction patterns of the Cretaceous-Tertiary boundary, Raton and Denver Basins (*abs.*): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 874
see Nichols and Upchurch, 1987
- Vail, Peter R.**
see Sarg, Romine, and Vail, 1987
- Valek, Karol W.**
see Walters, Owen, Henley, Winsten, and Valek, 1987
- VandenDolder, Evelyn M.**
1987 The nonfuel mineral industry—1986 summary: *Fieldnotes*, v. 17, no. 2, p. 3-5, 2 tables, 1 fig.
see Davis, G. H., and VandenDolder, 1987

Van Devender, Thomas R.

1987 Late Quaternary history of pinyon-juniper-oak woodlands dominated by *Pinus remota* and *P. edulis*, in Proceedings of the pinyon-juniper conference, Reno, Nevada, January 13–16, 1986, R. L. Everett, compiler: U.S. Dept. Agriculture, Forest Serv., General Tech. Rept. INT-215, p. 99–103

1987 (Bradley, George L., and Harris, Arthur H.) Late Quaternary mammals from the Hueco Mountains, El Paso and Hudspeth Counties, Texas: Southwestern Naturalist, v. 32, p. 179–195

1987 (Thompson, Robert S., and Betancourt, Julio L.) Vegetation history of the deserts of southwestern North America—the nature and timing of the late Wisconsin–Holocene transition, in North America and adjacent oceans during the last deglaciation, W. F. Ruddiman and H. E. Wright, Jr. editors: Geol. Soc. America, Centennial Special Volume K–3, p. 323–352

Van Etten, Don M.

see Buhl, Van Etten, and Hansen, 1987

Vaniman, David T.

see Baldrige, Vaniman, and Shafiqullah, 1987

van Kooten, Gerald K.

1987 Geothermal exploration using surface mercury geochemistry: Jour. Volcanology and Geothermal Research, v. 31, nos. 3/4, p. 269–280

Van Sambeek, L. L.

1987 Thermal and thermomechanical analysis of WIPP shaft seals: Sandia Natl. Lab., Rept. SAND87–7039, 91 p.; Natl. Tech. Inf. Serv., Rept. DE88 003 614

1987 (and Stormont, J. C.) Thermal/structural modeling of test series A of the small-scale seal performance tests: Sandia Natl. Lab., Rept. SAND87–7037, 42 p.

see Labreche and Van Sambeek, 1987

Vanyan, L. L.

see Jiracek, Rodi, and Vanyan, 1987

Vavruska, John S.

see Koenig, Borduin, Hutchins, Vavruska, and Warner, 1987

Verkhovskiy, A. B.

see Shukolyukov, Meshik, Pravdivtseva, and Verkhovskiy, 1987; and Shukolyukov, Meshik, Pravdivtseva, Verkhovskiy, and Kryuchkova, 1987

Vernon, R. H.

1987 Oriented growth of sillimanite and andalusite, Placitas–Juan Tabo area, New Mexico, USA: Canadian Jour. Earth Sci., v. 24, no. 3, p. 580–590, 15 figs.

Vidas, E. Harry

see Hugman and Vidas, 1987

Vincent, Dwain

see de Gruyter, DeLong, Berger, and Vincent, 1987a,b; de Gruyter, Lutonsky, Vincent, and Berger, 1987; and DeLong, Lutonsky, Berger, de Gruyter, and Vincent, 1987

Vincent, Jerry W.

see Greer and Vincent, 1987

Virgo, D.

see Wood, B. J., and Virgo, 1987

Vogt, Thomas C.

see Strom and Vogt, 1987

von Finger, Kevin

see Marston, Gillespie, von Finger, and Nickling, 1987

von Koenigswald, W.

1987 (Rensberger, J. M., and Pretzschner, H. U.) Changes in the tooth enamel of early Paleocene mammals allowing increased diet diversity: Nature, v. 328, no. 6126, p. 150–152

Vozoff, K.

see Jiracek, Curtis, Meile, and Vozoff, 1987

Vuatatz, Francois

see Shevenell, Goff, Vuatatz, Trujillo, Counce, Janik, and Evans, 1987

Wachs, Daniel

see Gardner, Goff, Goff, Maassen, Mathews, Wachs, and Wilson, 1987

Wacker, John F.

see Goodrich, Keil, Berkley, Laul, Smith, Wacker, Clayton, and Mayeda, 1987

Wagener, Jens

1987 Zur geologie, geochemie und petrologie des tuff of Diamond Creek, Black Range (sudwest—New Mexico, USA): Geologische Diplomarbeit; Institut für Mineralogie und Lagerstättenkunde der Rheinisch–Westfälischen Technischen Hochschule, Aachen, West Germany, 96 p.

see Reisinger, Wagener, and Abitz, 1987

Wahl, Kenneth L.

1987 (Collins, Dannie L., and Aldridge, Byron N.) Runoff in the upper Colorado River basin, water years 1983–85, and comparisons with forecasts of runoff to Lake Powell: Western Snow Conf., Vancouver, British Columbia, Canada, April 14–16, 1987, Proc., 10 p.

Wallace, A. R.

see Shannon, Naeser, DeWitt, and Wallace, 1987

Wallace, Terry C.

1987 (and Chase, C.) Flexural isostasy and the uplift of the Sandia Mountains, New Mexico (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 35; abs. also in New Mexico Geology, 1988, v. 10, no. 2, p. 43–44

Wallin, Philip

1987 Rio Grande management—the view from upstream, in Managing the river—proceedings of the thirty-first annual New Mexico water conference, L. G. Harris, editor: New Mexico State Univ., Water Resources Research Inst., Rept. WRR1–219, p. 98–111

Walter, Kathy

see de Gruyter, DeLong, Hester, and Walter, 1987

Walters, Lester J., Jr.

1987 (Owen, Donald E., Henley, Andrea L., Winsten, Miriam S., and Valek, Karol W.) Depositional environments of the Dakota Sandstone and adjacent units in the San Juan Basin utilizing discriminant analysis of trace elements in shales: Jour. Sed. Petrology, v. 57, no. 2, p. 265–277, 2 tables, 7 figs.

Waltmeyer, Scott D.

1987 Trends in streamflow and reservoir contents in the Rio Grande basin, New Mexico, in Managing the river—proceedings of the thirty-first annual New Mexico water conference, L. G. Harris, editor: New Mexico State Univ., Water Resources Research Inst., Rept. WRR1–219, p. 133–144, 8 figs.

Wampler, J. M.

see Ghazi and Wampler, 1987

Ward, David B.

see Abitz, Ward, and Brookins, 1987; and Grambling and Ward, 1987

Ward, Frank A.

1987 Economics of water allocation to instream uses in a fully appropriated river basin—evidence from a New Mexico wild river: Water Resources Research, v. 23, no. 3, p. 381–392, 5 tables, 2 figs.

Warner, Charles L.

see Koenig, Borduin, Hutchins, Vavruska, and Warner, 1987

Waste Management Technology Department

1987 The scientific program at the Waste Isolation Pilot Plant: Sandia Natl. Lab., Rept. SAND85–1699

Watts, Kenneth C.

see Richter, Houser, Watts, Klein, Sharp, Drewes, Hedlund, Raines, and Hassemer, 1987

Watwood, Mary E.

1987 Environmental parameters regulating sulfur retention in a variety of forest soils: Ph.D. dissertation, Univ. Georgia, 152 p.

Wawersik, Wolfgang R.

1987 (and Morgan, Harold S.) Evaluating design procedures for structures in rock salt, *in* Rock mechanics—proceedings of the 28th U.S. symposium, I. W. Farmer and others, editors: Rotterdam, Balkema, p. 107–115

Weaver, H. L.

see Weeks, E. P., Weaver, Campbell, and Tanner, 1987

Webb, S. D.

see Tedford, Skinner, Fields, Rensberger, Whistler, Galusha, Taylor, Macdonald, and Webb, 1987

Webster, G. D.

1987 Tournaisian and early Visean crinoid faunas of western North America (abs.): Internat. Congr. on Carboniferous Stratigraphy and Geology, Abs. of Papers, v. 11, p. 101

Weeks, E. P.

1987 (Weaver, H. L., Campbell, G. S., and Tanner, B. D.) Water use by saltcedar and by replacement vegetation in the Pecos River flood plain between Acme and Artesia, New Mexico: U.S. Geol. Survey, Prof. Paper 491–G, 33 p.

Weeks, John B.

1987 Geohydrology of the High Plains aquifer (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 341

1987 (and Luckey, Richard R.) Simulated effects of future pumpage on the High Plains aquifer, west-central United States, *in* Groundwater and the environment, S. Awadalla and I. M. Noor, editors: Internat. Groundwater Conf., Kuala Lumpur, June 22–26, 1987, Proc., p. 79–87

Weiss, Emanuel

1987 Boundary integral-equation method (BIEM) modeling of regional aquifers using geostatistics, *in* Proceedings of the Solving ground water problems with models conference and exposition: Dublin, Ohio, Natl. Water Well Assoc., p. 1501–1522, 2 tables

Wells, Stephen G.

1987 (Kelson, Keith I., and Menges, Christopher M.) Quaternary evolution of fluvial systems in the northern Rio Grande rift, New Mexico and Colorado—implications for entrenchment and integration of drainage systems, *in* Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico, C. Menges, editor: Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf., p. 55–69, 9 figs.

1987 (and Menges, Christopher M.) Geologic overview of north-central New Mexico and the 1987 Rocky Mountain Cell–FOP fieldtrip route, *in* Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico, C. Menges, editor: Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf., p. 45–53, 6 figs.

1987 (and others) Geomorphology of erosional glacial features in the southern Sangre de Cristo Mountains, New Mexico, *in* Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico, C. Menges, editor: Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf., p. 195–203, 3 tables, 4 figs.

see Balling and Wells, 1987; Kelson and Wells, 1987;

Menges, Kelson, and Wells, 1987; Menges and Wells, 1987; and Sares and Wells, 1987

Wenzel, Walter J.

1987 (Foxy, Teralene S., Gallegos, Anthony F., Tierney, Gail D., and Rodgers, John C.) Cesium-137, plutonium-239/240, total uranium, and scandium in trees and shrubs growing in transuranic waste at area B: Los Alamos Natl. Lab., Rept. LA-11126-MS, 62 p.

Wesling, John R.

1987 Glacial geology of Winsor Creek drainage basin, southern Sangre de Cristo Mountains, New Mexico, *in* Quaternary tectonics, landform evolution, soil chronologies and glacial deposits—northern Rio Grande rift of New Mexico, C. Menges, editor: Friends of the Pleistocene—Rocky Mtn. Cell, Guidebook 1987 field conf., p. 177–191, 5 tables, 9 figs.

West, R. M.

see Krishtalka, West, Black, Dawson, Flynn, Turnbull, Stucky, McKenna, Bown, Golz, and Lillegraven, 1987

Westhaus, T.

1987 Versuche zur Endlagerung von radioaktivem Abfall in der USA (Search for radioactive waste disposal sites in the USA): Bauingenieur, v. 62, no. 11, p. 497–498

Westinghouse Electric Corporation

1987 Construction quality assurance program plan for the WIPP (Waste Isolation Pilot Plant) project, Carlsbad, NM—revision 1: Westinghouse Electric Corp., Waste Isolation Pilot Plant Project, Rept. DOE/WIPP-207-Rev.1, 28 p.; Natl. Tech. Inf. Serv., Rept. DE89 015 454

Whetten, John T.

1987 (Dennis, Bert R., Dreesen, Donald S., House, Leigh S., Murphy, Hugh D., Robinson, Bruce A., and Smith, Morton C.) The U.S. hot dry rock project: Geothermics, v. 16, no. 4, p. 331–339, 1 table, 3 figs.

Whistler, D. P.

see Tedford, Skinner, Fields, Rensberger, Whistler, Galusha, Taylor, Macdonald, and Webb, 1987

White, Stephen E.

see Kromm and White, 1987

Whitehead, W. S.

see Holditch, Robinson, and Whitehead, 1987

Whitford, Stark J. L.

1987 Crustal and subcrustal nodules in ejecta from Kilbourne Hole maar, New Mexico, *in* Reports of the Planetary Geology and Geophysics Program, 1986: Natl. Aeronautics and Space Admin., Tech. Memorandum 89810, p. 362–364, 1 table

Whitney, C. Gene

1987 (and Northrop, H. Roy) Diagenesis and fluid flow in the San Juan Basin, New Mexico—regional zonation in the mineralogy and stable isotope composition of clay minerals in sandstone: Am. Jour. Sci., v. 287, no. 4, p. 353–382, 4 tables, 9 figs.

see Asher–Bolinder and Whitney, 1987; and Northrop and Whitney, 1987

Whitney, John W.

see Harrington and Whitney, 1987

Wicks, Donald E.

see Kelso, Decker, Wicks, and Horner, 1987

Wicks, G. G.

1987 (and Molecke, M. A.) WIPP/SRL in situ testing program—an April 1987 update: Savannah River Lab., rept. prepared for U.S. Dept. Energy, Rept. DP-MS-87-4, 16 p.; Natl. Tech. Inf. Serv., Rept. DE87 010 184

Wierenga, Peter J.

see Sabol, Bouwer, and Wierenga, 1987

Wildman, Nancy A.

see Erickson, Johnson, Klingler, Wildman, and Wilson, 1987

Wilkins, David W.

1987 Characteristics and properties of the basin-fill aquifer determined from three test wells west of Albuquerque, Bernalillo County, New Mexico: U.S. Geol. Survey, Water-resources Inv., Rept. 86-4187, 78 p.

Williams, Douglas F.

see Mucciarone, Trainor, and Williams, 1987

Williams, Frank L.

1987 (and Smith, Douglas M.) Diffusion of gases in New Mexico coals: New Mexico Research and Develop. Inst., Rept. 2-74-4122, 48 p., 3 tables, 4 figs., 3 appendices

Williams, Jack E.

1987 The depositional environments of the Entrada Sandstone (Jurassic) from Beulah, Pueblo County, Colorado, to the Cimarron River Canyon, Union County, New Mexico: M.S. thesis, Fort Hays State Univ., 57 p., 1 pl.

Williams, Mary C.

see Purtymun, Ferenbaugh, Becker, Williams, and Maes, 1987

Williams, Michael L.

1987a Heterogeneous deformational styles and multiple shearing events in the Tusas Mountains, northern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 342-343

1987b Stratigraphic, structural, and metamorphic relationships in Proterozoic rocks from northern New Mexico: Ph.D. dissertation, Univ. New Mexico, 138 p., 9 tables, 37 figs.

1987a (and Grambling, Jeffrey A.) Mid-crustal exposure of a Proterozoic orogenic belt (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 890-891

1987b (and Grambling, Jeffrey A.) Structural and metamorphic framework for Proterozoic mineral deposits in northern New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 891

see Grambling and Williams, 1987

Williams, Robert A.

see Peter, Williams, and King, 1987

Wilson, D.

see Gardner, Goff, Goff, Maassen, Mathews, Wachs, and Wilson, 1987

Wilson, James Lee

1987 The late Paleozoic geological history of southern New Mexico and Chihuahua: Geol. Soc. Mexico, Chihuahua Sec., Field Conf. Guidebook, p. 36-53

Wilson, John

see Erickson, Johnson, Klingler, Wildman, and Wilson, 1987

Wilson, John L.

1987 (and Newsom, Joan M.) The effect of ambient flow direction on pumping near a stream (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 16, p. 307

see Blandford and Wilson, 1987; and Chen and Wilson, 1987

Wilson, Lee, and Associates

1987a Development and application of LRG models: consult. rept. to New Mexico State Engineer on behalf of the City of El Paso, 100 p.

1987b Evaluation of Hueco Basin water to meet demands in New Mexico: consult. rept. to New Mexico State Engineer on behalf of the City of El Paso, 45 p.

1987c Hydrogeology of the Hueco Bolson: consult. rept. to New Mexico State Engineer on behalf of the City of El Paso, 42 p.

1987d Hydrogeology of the Mesilla Bolson and valley: consult. rept. to New Mexico State Engineer on behalf of the City of El Paso, 61 p.

1987e Technical framework for evaluation of proposed Hueco Basin appropriations (ground-water flow and wa-

ter-quality models): consult. rept. to New Mexico State Engineer on behalf of the City of El Paso, 49 p.

Wilson, Marjorie G.

see Brown, D. W., Franke, Smith, and Wilson, 1987

Wilt, Jan C.

1987 (and Keith, Stanley B.) Correlation of magma alkalinity with metal contents in Tertiary and Cretaceous ore deposits, southern CA, AZ, and NM (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 893

Winkler, Dale A.

1987 Vertebrate-bearing eolian unit from the Ogallala Group (Miocene) in northwestern Texas: Geology, v. 15, no. 8, p. 705-708, 1 table, 4 figs.

see Gustavson and Winkler, 1987

Winsten, Miriam S.

see Walters, Owen, Henley, Winsten, and Valek, 1987

Witcher, James C.

1987a Geologic settings of hydrothermal resources in the Basin and Range, Arizona and New Mexico (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 893-894

1987b Geothermal resources in New Mexico geologic settings and development update: Interstate Oil & Gas Compact & Comm., Bull., v. 1, no. 2, p. 49-60, 3 tables, 15 figs.

Withiam, James L.

see Case, Withiam, and Kelsall, 1987

Wobus, Reinhard A.

see Manley, K., Scott, and Wobus, 1987

Wodzicki, A.

see Krason, Wodzicki, Cruver, Juilland, and King, 1987

Wohletz, Kenneth H.

see Elston and Wohletz, 1987; and Heiken and Wohletz, 1987

Wolberg, Donald L.

see Anderson, O. J., and Wolberg, 1987a,b; and Rigby and Wolberg, 1987

Wolfe, Douglas G.

1987a Stratigraphy and paleogeography of Greenhorn age strata near the central Arizona-New Mexico border (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 7, p. 895

1987b Stratigraphy and paleontology—Dakota and Mancos Formations near Springerville, Arizona (abs.): Geol. Soc. America, Abs. with Programs, v. 19, no. 5, p. 344

Wolfe, J. A.

see Upchurch and Wolfe, 1987

Wolff, John A.

1987 (Balsley, S. D., Kuentz, David C., Self, Stephen A., and Kyle, Philip R.) Quaternary rhyolite magmatism in the Jemez Mountains (abs.): New Mexico Inst. Mining and Tech., New Mexico Geol. Soc., 1987 Spring Mtg., Abs. with Programs, p. 27; abs. also in New Mexico Geology, 1988, v. 10, no. 2, p. 42

1987 (Self, Stephen A., Kyle, Philip R., and Gardner, Jamie N.) Petrology of the El Cajete-Battleship Rock-Banco Bonito sequence, Valles caldera, New Mexico (abs.): Am. Geophys. Union (EOS), Trans., v. 68, no. 44, p. 1512
see Balsley, Wolff, Kuentz, Kyle, and Gardner, 1987; Duncker, Wolff, Harmon, Leat, Thompson, and Baldrige, 1987; Duncker, Wolff, Leat, and Kyle, 1987; and Franklin, R. R., Self, and Wolff, 1987

Wolff, Joyce J.

see Cash and Wolff, 1987

Wolter, Niels R.

1987 The depositional history of the Cenomanian Twowells Tongue of the Dakota Sandstone, New Mexico: M.S. thesis, Louisiana State Univ., 132 p.

Wong, Ivan G.

1987 (Humphrey, James R., and Ely, Richard W.) The contemporary state of stress in the Colorado Plateau (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 896

Wood, B. J.

1987 (and Virgo, D.) Oxidation state of the upper mantle—ferric-ferrous ratios in coexisting minerals from spinel lherzolites (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 896

Wood, M. Karl

see Sanchez and Wood, 1987

Wood, Warren W.

1987 (and Osterkamp, W. R.) Playa-lake basins on the southern High Plains of Texas and New Mexico—pt. 2, a hydrologic model and mass-balance arguments for their development: *Geol. Soc. America, Bull.*, v. 99, no. 2, p. 224–230, 2 tables, 1 fig.

see Osterkamp and Wood, 1987

Woodburne, Michael O.

1987 A prospectus of the North American mammal ages, in *Cenozoic mammals of North America—geochronology and biostratigraphy*, M. O. Woodburne, editor: Berkeley, Univ. California Press, p. 285–290

Wooden, J. L.

1987 (and Aleinikoff, John N.) Pb isotopic evidence for Early Proterozoic crustal evolution in the southwestern U.S. (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 897

Woods, Thomas F.

1987 Processing and interpretation of CDP, VSP, and sonic log data acquired in the Rio Grande rift, Doña Ana County, New Mexico: M.S. thesis, Univ. Wyoming, 236 p.

Woodward, Lee A.

1987a Geology and mineral resources of Sierra Nacimiento and vicinity, New Mexico: New Mexico Bureau Mines Mineral Resources, Mem. 42, 84 p., 2 tables, 41 figs. 1 sheet, scale 1:100,000

1987b Oil and gas potential of the Raton Basin, New Mexico, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 331–338

1987c Tectonic framework of northeastern New Mexico and adjacent parts of Colorado, Oklahoma and Texas, in *Northeastern New Mexico*, S. G. Lucas and A. P. Hunt, editors: New Mexico Geol. Soc., Guidebook 38th field conf., p. 67–71, 2 figs.

1987 (and Grant, P. R.) Oil and gas potential of the Quemado region: *Oil and Gas Jour.*, v. 85, no. 8, p. 75–76, 78

see Fulp and Woodward, 1987

Woolley, Alan R.

1987 Alkaline rocks and carbonatites of the world—pt. 1, North and South America: Austin, Univ. Texas Press, 216 p.

Wozniak, F. E.

1987 Irrigation in the middle Rio Grande valley, New Mexico—a study of the development of irrigation systems before 1945: New Mexico State Historic Preservation Division and U.S. Dept. Interior, Bureau Reclamation, Southwest Regional Office, rept., 191 p.

Wright, H. E., Jr.

see Ruddiman and Wright, 1987

Wright, Robyn

1987 (Kisucky, Michael J., and Holbrook, John M.) Albian transgression in east-central New Mexico—sedimentary response to eustacy and local tectonism (abs.): *Geol. Soc. America, Abs. with Programs*, v. 19, no. 7, p. 899

see Holbrook and Wright, 1987; and Holbrook, Wright, and Kietzke, 1987

Wunder, R. D.

1987 (and Trujillo, A. D.) Chino mine modernization: *Mining Engineering*, v. 39, no. 7, p. 867–872, 5 tables, 3 figs.; *Soc. Mining Engineers (AIME), Trans.*, v. 282, p. 867–872

Yost, F. G.

1987 (and Aronson, E. A.) Crushed salt consolidation kinetics: Sandia Natl. Lab., Rept. SAND87–0264, 20 p.

Young, Richard A.

see Graf, Hereford, Laity, and Young, 1987

Young, Robert A.

see Mann, Sparling, and Young, 1987

Zaikowsky, Anthony

1987 (Kosanke, Bonnie J., and Hubbard, Norman) Noble gas composition of deep brines from the Palo Duro Basin, Texas: *Geochim. et Cosmochim. Acta*, v. 51, no. 1, p. 73–84, 3 tables, 5 figs.

Zech, Robert S.

see Kirk and Zech, 1987a,b

Zempolich, William G.

1987 (Hurley, Neil F., and Gonzalez, L. A.) Diagenesis of the lower Seven Rivers Formation (Permian), Guadalupe Mountains, New Mexico (abs.): *Soc. Econ. Paleontologists and Mineralogists, Midyear Mtg.*, Abs. with Programs, v. 4, p. 94

Zimbelman, David R.

see Jones, Kilburn, Zimbelman, and Siems, 1987

Zoback, Mary Lou

see Aldrich, Chapin, Laughlin, and Zoback, 1987

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- Nash Draw, Lambert and Carter (1987); Richey (1987a) petroleum and natural gas, Bayliss (1987); Bayliss and Schwarzer (1987s); Dufford, Burdick, Garvey, Gibson, Grimes, Pausé, and Turmelle (1987a)
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- El Cajete volcanic series**, Wolff, Self, Kyle, and Gardner (1987)
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- Hueco Mountains, Aluka (1987a,b)
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- engineering geology**
- Ambrosia Lake uranium mill tailings site, Caldwell, J. A., and Hobbs (1987); Caldwell, J. A., Larson, and Rager (1987)
- Estancia Valley, Barrie (1987); Johnpeer, Bobrow, Robinson-Cook, and Barrie (1987a,b); Johnpeer, Robinson-Cook, Bobrow, Barrie, Kelliher, and McNeil (1987)
- Fenton Hill hot dry rock geothermal site, Murphy (1987b)
- Kirtland Air Force Base, Lockhart and Logan (1987)
- landslides, Guzzetti and Brabb (1987)
- Molycorp molybdenum mine, Agapito and Shoemaker (1987)
- Nacimiento mine, Martin, D. C. (1987)
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- soil subsidence, Caldwell, J. A., Larson, and Rager (1987); Love, D. W., Reimers, Hawley, Johnpeer, and Bobrow (1987); Ni and Smyth (1987); Turner (1987)
- Superconducting Super Collider site, Barrie (1987); Johnpeer, Bobrow, Robinson-Cook, and Barrie (1987a,b); Johnpeer, Robinson-Cook, Bobrow, Barrie, Kelliher, and McNeil (1987)
- Waste Isolation Pilot Plant, Argüello and Beraun (1987); Argüello, Munson, and Preece (1987); Argüello and Torres (1987); Case, Withiam, and Kelsall (1987); Chakrabarti, Patrick, and Duplancic (1987); IT Corporation (1987); Labreche and Van Sambeek (1987); Munson, Jones, Hoag, and Ball (1987); Munson, Torres, and Jones (1987); Niou and Pietz (1987); Pfeifle (1987); Preece (1987); Stormont (1987); Stormont and Howard (1987); Stroup and Senseny (1987); Van Sambeek (1987); Van Sambeek and Stormont (1987); Wawersik and Morgan (1987); Yost and Aronson (1987)
- Engle Basin**, Abitz, Ward, and Brookins (1987); Lozinsky (1987a)
- Entrada Sandstone**, see San Rafael Group, see also Exeter Sandstone
- environmental geology**
- Ambrosia Lake uranium mill tailings site, Caldwell, J. A., and Hobbs (1987); Caldwell, J. A., Larson, and Rager (1987); Kauffman, Kong, and Lin (1987); U.S. Department of Energy (1987)
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- Los Alamos National Laboratory, Los Alamos National Laboratory (1987a,b)
- remote sensing, National Technical Information Service (1987)
- Waste Isolation Pilot Plant, Millard, Pei, Felicetti, Gray, Thompson, and Phelan (1987)
- Eocene**, Beard, K. C. (1987); Krishtalka, West, Black, Dawson, Flynn, Turnbull, Stucky, McKenna, Bown, Golz, and Lillegraven (1987); Pavlow (1987); Sullivan, R. M., and Lucas (1987)
- Española Basin**
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- magnetotelluric surveys, Jiracek, Martinez, Rodriguez, Romo, and Fernandez (1987); Rodriguez (1987); Rodriguez, Martinez, Fernandez, Romo, and Jiracek (1987)
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- Artesia Group, Knauth, Hovorka, and Fisher (1987)
- Basin and Range province, Casas and Lowenstein (1987)
- brine, Deal (1987); Deal and Case (1987); Deal, Case, Deshler, Drez, Myers, and Tyburski (1987); Dutton (1987b); Krumhansl and Stein (1987b); Peterson, E. W., Lagus, and Lie (1987a)
- brine flow, Case and Deal (1987); McTigue and Nowak (1987a,b); Niou and Pietz (1987); Nowak and McTigue (1987); Peterson, E. W., Lagus, and Lie (1987b); Stormont, Peterson, and Lagus (1987)
- brine inclusions, Knauth, Hovorka, and Fisher (1987); Krumhansl and Stein (1987a)
- bromide, Fisher (1987); Fisher and Hovorka (1987)
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- deformation, Argüello and Beraun (1987); Argüello and Torres (1987); Borns (1987a-c); Borns and Stormont (1987); Case, Withiam, and Kelsall (1987); Chakrabarti, Patrick, and Duplancic (1987); Holcomb (1987); Holcomb and Shields (1987); IT Corporation (1987); Munson, Jones, Hoag, and Ball (1987); Munson, Torres, and Jones (1987); Niou and Pietz (1987); Nowak and Stormont (1987); Pfeifle (1987); Sjaardema and Krieg (1987); Wawersik and Morgan (1987); Yost and Aronson (1987)
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- fluid inclusions, Lowenstein and Spencer (1987)
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- Pecos-drainage karst, Bachman (1987a)
- Rustler Formation, Bachman (1987c); Lowenstein (1987b)
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- Waste Isolation Pilot Plant, Argüello and Beraun (1987); Argüello and Torres (1987); Bachman (1987c); Borns (1987c); Borns and Stormont (1987); Brookins (1987a); Brookins and Lambert (1987b); Case and Deal (1987); Case, Withiam, and Kelsall (1987); Chakrabarti, Patrick, and Duplancic (1987); Deal (1987); Deal and Case (1987); Deal, Case, Deshler, Drez, Myers, and Tyburski (1987); Holcomb (1987); Holcomb and Shields (1987); IT Corporation (1987); Krumhansl and Stein (1987b); Lowenstein (1987b); McTigue and Nowak (1987a,b); Munson, Jones, Hoag, and Ball (1987); Munson, Torres, and Jones (1987); Niou and Pietz (1987); Nowak and McTigue (1987); Nowak and Stormont (1987); Peterson, E. W., Lagus, and Lie (1987a,b); Pfeifle (1987); Sjaardema and Krieg (1987); Stormont (1987); Stormont and Howard (1987); Stormont, Peterson, and Lagus (1987); Stroup and Senseny (1987); Tomasko (1987); Van Sambeek (1987); Van Sambeek and Stormont (1987); Wawersik and Morgan (1987); Yost and Aronson (1987)
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- Fort Bliss Military Reservation**, Marston, Gillespie, von Finger, and Nickling (1987)
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- Four Corners**
- Cheto bentonite deposit, Eyde and Eyde (1987)
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- Cerro Verde flow, Leavy, Phillips, Elmore, Kubik, and Gladney (1987)
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- Cerro Verde flow, Leavy and Shafiqullah (1987)
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- Precambrian, Aleinikoff, Reed, and Pallister (1987)

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- Colorado Plateau, Agenbroad and Mead (1987)
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- Engle Basin, Abitz, Ward, and Brookins (1987)
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- Española Basin, Dethier and Harrington (1987a,b); Harrington (1987); Harrington and Whitney (1987)

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- Precambrian, Bennett and DePaolo (1987)

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- Española Basin, Dethier and Harrington (1987b)

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- Franklin Mountains, Norman, Condie, Smith, and Thomann (1987)

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- Española Basin, Dethier and Harrington (1987b)

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- Florida Mountains, Evans and Clemons (1987)
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- Albuquerque Basin, Lozinsky (1987c)
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- Alamogordo Creek basin, Baumgardner (1987)
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- Phillips Sunland Park No. 1 well, Woods (1987)
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- Franklin Mountains, Figuers (1987)

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- Colorado Plateau, Lundy, Hauser, Brown, Oliver, and Kaufman (1987)
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- general, Andersen (1987)
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- Colorado Plateau, Minier (1987); Minier and Reiter (1987)
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- Big Hatchet Mountains, U.S. Geological Survey (1987a)
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- Dockum Group, Ash (1987); Conrad, Lockley, and Prince (1987); Kietzke (1987a); Murry (1987b)
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- Nacimiento Formation, Lucas and Sullivan (1987)
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- Tucumcari Basin, Broadhead and King (1987); McCaslin (1987a)
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- (1987); Deal, Case, Deshler, Drez, Myers, and Tyburski (1987); Earth Technology Corporation (1987); Haug (1987); Haug, Kelley, LaVenue, and Pickens (1987); Holcomb (1987); Holcomb and Shields (1987); Holt and Powers (1987a,b); Hunter (1987); IT Corporation (1987); Kelley, V. A., Pickens, Reeves, and Beauheim (1987); Krumhansl and Stein (1987b); Labreche and Van Sambeek (1987); Lambert (1987a,b); Lambert and Carter (1987); Lambert and Harvey (1987); Lappin (1987); Likar (1987); Lowenstein (1987b); Matalucci (1987); McTigue and Nowak (1987a,b); Mercer (1987); Mercer, Beauheim, Snyder, and Fairer (1987); Millard, Pei, Felicetti, Gray, Thompson, and Phelan (1987); Morrison, Majer, and Tsang (1987); Munson, Jones, Hoag, and Ball (1987); Munson, Torres, and Jones (1987); Niou and Pietz (1987); Nowak and McTigue (1987); Nowak and Stormont (1987); Pearson, Kelley, and Pickens (1987); Peterson, E. W., Lagus, and Lie (1987a,b); Pfeifer (1987); Pfeifle (1987); Powers (1987); Preece (1987); Reeves, Kelley, and Pickens (1987); Richey (1987a,b); Robinson, K. L. (1987); Rodgers (1987); Saulnier (1987); Saulnier, Freeze, and Stensrud (1987); Sjaardema and Krieg (1987); Stensrud, Bame, Lantz, LaVenue, Palmer, and Saulnier (1987); Stormont (1987); Stormont and Howard (1987); Stormont, Peterson, and Lagus (1987); Stroup and Senseny (1987); Tomasko (1987); Tomasko and Jensen (1987); Tomasko, Reeves, Kelley, and Pickens (1987); Uhland, Randall, and Carrasco (1987); Van Sambeek (1987); Van Sambeek and Stormont (1987); Waste Management Technology Department (1987); Wawersik and Morgan (1987); Westinghouse Electric Corporation (1987); Wicks and Molecke (1987); Yost and Aronson (1987)
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- alluvial paleoarchitecture, Flores and Pillmore (1987)
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- Cretaceous, Flores (1987); Lehman (1987)
- Cretaceous-Tertiary boundary, Bohor, Modreski, and Foord (1987); Fassett and Rigby (1987); Hunt, Lucas, and Kues (1987c); Izett (1987a,c); Newman (1987); Orth, Gilmore, and Knight (1987); Pillmore and Flores (1987); Pollastro and Pillmore (1987); Shoemaker, Pillmore, and Peacock (1987); Upchurch and Wolfe (1987)
- ground water, Gelden (1987)
- paleomagnetism, Shoemaker, Pillmore, and Peacock (1987)
- paleontology, Hartman (1987); Upchurch and Wolfe (1987)
- petroleum and natural gas, Merewether (1987); Woodward (1987b)
- selenium, Coleman, Finkelman, and Bragg (1987)
- Raton Formation**, Fleming (1987); Flores (1987); Flores and Pillmore (1987); Hartman (1987); Kuellmer, Kendrick, and Baker (1987a,b); Lehman (1987); Perry, P. L. (1987); Pillmore and Flores (1987); Pollastro and Pillmore (1987)
- Raton volcanic field**, Calvin (1987); Stormer (1987); Trauger (1987)
- Red River**, Garn (1987)
- remote sensing**, Bowker and Davis (1987); Breed, Musick, and Helm (1987); Connors, Gardner, and Petersen (1987); Magee, Moore, and Brunner (1987); National Technical Information Service (1987); Petersen, Connors, Miller, Day, and Gardner (1987); Pyron and Feder (1987); Teillet, Slater, Jackson, Fedosejevs, and Moran (1987); Thelin and Heimes (1987)
- Ringbone Formation**, Lehman (1987)
- Rio Arriba County**
- Aztec 2nd quadrangle, Manley, K., Scott, and Wobus (1987)
- Chama-El Vado area, Ridgley (1987b)
- core catalog, Michalski and Richards (1987)
- Cutler Formation, Eberth (1987)
- El Cobre Canyon, Berman, Reisz, and Eberth (1987a,b); Eberth (1987); Fracasso (1987a,b)
- El Llano area, Love, D. W., Reimers, Hawley, Johnpeer, and Bobrow (1987)
- Gavilan Mancos field, Mikesch (1987)
- Hopewell Lake gold district, Boadi, Norman, and Robertson (1987)
- Navajo Dam, Kravits, Sainato, and Finfinger (1987)
- paleontology, Berman, Reisz, and Eberth (1987a,b); Eberth (1987); Fracasso (1987a)
- Petaca mining district, Jonasson (1987)
- petroleum and natural gas, McCaslin (1987b,c)
- Puerto Chiquito Mancos West field, Mikesch (1987)
- road logs, Gabelman, Robertson, and McLemore (1987); Menges, Dethier, Love, and Karas (1987); Menges, Kelson, and Wells (1987)
- Sierra Nacimiento, Woodward (1987a)
- soil subsidence, Love, D. W., Reimers, Hawley, Johnpeer, and Bobrow (1987)
- Tusas Mountains, Boadi, Norman, and Robertson (1987); Williams, M. L. (1987a)
- West Lindrith field, Franklin, S. P. (1987)
- Rio Chama**, Ward (1987)
- Rio Grande**
- Albuquerque, Daves (1987)
- annual flow, Calhoun (1987)
- Caballo Reservoir, Overvold (1987)
- Elephant Butte Irrigation District, Saad (1987)
- Elephant Butte Reservoir, Overvold (1987)
- flooding, Resendiz-Carrillo and Lave (1987)
- hydrogeology, Stone and Summers (1987)
- hydrology, U.S. Geological Survey (1987e)
- irrigation practices, McLin (1987); Wozniak (1987)
- Middle Rio Grande Conservancy District, Shollenbarger (1987)
- northern New Mexico, Wells, Kelson, and Menges (1987)
- Quaternary incision rates, Dethier and Harrington (1987b)
- sediment sampling, Marshall (1987)
- sedimentary structures, Love, D. W., Gutjahr, and Robinson-Cook (1987)
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- tributary development, Love, D. W. (1987)
- water management, Cunico (1987); Harris, L. G. (1987); Mutz (1987); Stone and Summers (1987); Wallin (1987)
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- Rio Grande basin**
- hydrology, Calhoun (1987); Cunico (1987); Daves (1987); Mutz (1987); Overvold (1987); Saad (1987); Shollenbarger (1987); Wallin (1987); Waltmeyer (1987)
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- Rio Grande rift**
- Albuquerque Basin, Hermance (1987); Lozinsky (1987c); Schlue, Hostettler, and Edwards (1987)
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- borehole geophysics, Woods (1987)
- crustal structure, Jiracek, Martinez, Rodriguez, Romo, and Fernandez (1987); Jiracek, Rodi, and Vanyan (1987); Keller and Olsen (1987); Morgan (1987); Olsen (1987); Perry, F. V., Baldrige, and DePaolo (1987b)
- drainage systems, Wells, Kelson, and Menges (1987)
- Española Basin, Jiracek, Martinez, Rodriguez, Romo, and Fernandez (1987); Rodriguez (1987); Rodriguez, Martinez, Fernandez, Romo, and Jiracek (1987)
- fluorite mineralization, Harder (1987a)
- general, Bally (1987); Chapin, C. E., Cather, and McIntosh (1987); Olsen, Baldrige, and Callender (1987)
- geochronology, Harder (1987a,b)
- Kelly Limestone, Krukowski (1987a,b)
- magma bodies, Brown, L. D. (1987); Schlue, Hostettler, and Edwards (1987)

- magnetic survey, Hermance (1987)
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- mantle, Perry, F. V., Baldrige, and DePaolo (1987a)
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 San Luis Hills, Thompson, R. A., and Johnson (1987)
 Sandia Mountains, Wallace and Chase (1987)
 Santa Fe County, Jiracek, Curtis, Meile, and Vozoff (1987)
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 Taos Plateau, Dungan (1987)
 tectonics, Aldrich, Chapin, Laughlin, and Zoback (1987); Machette (1987b)
 Trans-Pecos region, Doser (1987)
 volcanism, Abitz and Brookins (1987); Bowring and Heatherington (1987); Elston and Abitz (1987)
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- Rio Hondo**, Kelson and Wells (1987)
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- road logs**
 Albuquerque-Taos, Gabelman, Robertson, and McLemore (1987)
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 Catron County, Roybal (1987b)
 Cibola County, Anderson, O. J., Chamberlin, and Roybal (1987); Anderson, O. J., and Hafenfeld (1987b); Beaumont (1987a)
 Colfax County, Hunt, Lucas, and Kues (1987c)
 Colorado Plateau, Agenbroad and Mead (1987)
 Eddy County, James and Powers (1987); Powers and James (1987a)
 Harding County, Lucas, Hunt, Kues, Trauger, and Holbrook (1987)
 Jemez Mountains volcanic field, Self, Gardner, and Goff (1987)
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- Rocky Mountains**
 Alvarado ridge, Eaton (1987)
 Cenozoic volcanics, Lipman (1987a,b)
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- Romeroville Sandstone**, *see* Dakota Sandstone
- Roosevelt County**
 ground water, Hudson (1987d)
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 Portales Valley, Hudson (1987d)
- Rustler Formation**
 clays, Smith, K. L., Mackinnon, and Sowards (1987)
 Culebra Dolomite Member, Beauheim (1987a,b); Haug (1987); Haug, Kelley, LaVenue, and Pickens (1987); Kelley, V. A., Pickens, Reeves, and Beauheim (1987); Lappin (1987); Pearson, Kelley, and Pickens (1987); Reeves, Kelley, and Pickens (1987); Richey (1987a); Saulnier (1987)
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- Sacramento Mountains**
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- Salado Formation**
 brine flow, Case and Deal (1987); Deal (1987); Niou and Pietz (1987)
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- Salado Mountains**, Mayer (1987a,b)
- San Andres Formation**
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- San Andres Mountains**
 Hembrillo Canyon, Alford (1987a,b)
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- San Jose Formation**, Smith, L. N. (1987b,c); Sullivan, R. M., and Lucas (1987)
- San Juan Basin**
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 Chaco slope, Beaumont (1987b); Franczyk, Flores, and Carr (1987)
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- coal, Lechner and Robinson (1987); Nelson, W. J. (1987); Roybal, Campbell, Beaumont, Cohen, Kuellmer, Kottlowski, and Cook (1987); Sinor Consultants, Inc. (1987)
- coal-bed methane, Byrer, Mroz, and Covatch (1987); Decker (1987); Decker and Horner (1987); Fassett (1987a); Kelso (1987); Kelso, Decker, Wicks, and Horner (1987); Meissner (1987); Murray (1987a-c)
- Cretaceous, Fassett (1987b); Franczyk, Flores, and Carr (1987)
- Cretaceous sedimentation patterns, Mitchell (1987)
- Cretaceous-Tertiary boundary, Fassett and Rigby (1987); Kues, B. S., and Lucas (1987b); Lucas, Mateer, Hunt, and O'Neill (1987); Newman (1987)
- Crevasse Canyon Formation, Roybal, Campbell, Beaumont, Cohen, Kuellmer, Kottlowski, and Cook (1987)
- Dakota Sandstone, Walters, Owen, Henley, Winsten, and Valek (1987)
- fluvial systems, Chamberlin (1987)
- Fossil Forest, Rigby and Wolberg (1987)
- Fruitland Formation, Fassett (1987c); Lucas, Mateer, Hunt, and O'Neill (1987); Roybal, Campbell, Beaumont, Cohen, Kuellmer, Kottlowski, and Cook (1987)
- geographic information systems, Crane (1987); Kernodle (1987)
- ground water, Dam (1987a,b); Kernodle (1987); McLaughlin and Johnson (1987); Shomaker and Newcomer (1987)
- heat flow, Clarkson and Reiter (1987); Reiter and Phillips (1987)
- hydrology, Whitney and Northrop (1987)
- Kim-me-ni-oli Wash, Petersen, Connors, Miller, Day, and Gardner (1987)
- Kirtland Shale, Brookins and Rigby (1987); Fassett (1987c); Lucas, Mateer, Hunt, and O'Neill (1987); Rigby and Wolberg (1987)
- mammals, Rigby and Wolberg (1987); Sloan (1987)
- Mancos Shale, Walters, Owen, Henley, Winsten, and Valek (1987)
- Menefee Formation, Roybal, Campbell, Beaumont, Cohen, Kuellmer, Kottlowski, and Cook (1987)
- Morrison Formation, Fishman, Turner-Peterson, and Owen (1987); Hansley (1987); Walters, Owen, Henley, Winsten, and Valek (1987)
- Ojo Alamo Sandstone, Fassett, Lucas, and O'Neill (1987); Sikkink (1987)
- paleomagnetism, Sloan (1987)
- paleontology, Lucas, Mateer, Hunt, and O'Neill (1987); Lucas and Sullivan (1987); Sullivan, R. M., and Lucas (1987)
- paleosols, Smith, L. N. (1987c)
- palynology, Newman and Cushman (1987)
- petroleum and natural gas, Attebery (1987); Cummings (1987); Huffman (1987); Mallett (1987); McCaslin (1987b,c); Mitchell (1987)
- remote sensing, Petersen, Connors, Miller, Day, and Gardner (1987)
- San Jose Formation, Smith, L. N. (1987c); Sullivan, R. M., and Lucas (1987)
- sedimentation, Smith, L. N. (1987a)
- stream-sediment geochemistry, Chamberlin (1987)
- tectonics, Smith, L. N. (1987a)
- Tocito Sandstone, Kofron (1987); Nummedal and Swift (1987a)
- Westwater Canyon Sandstone, Whitney, and Northrop (1987)
- zeolites, Fishman, Turner-Peterson, and Owen (1987)
- San Juan County**
- Aztec 2° quadrangle, Manley, K., Scott, and Wobus (1987)
- Bisti field, Tillman (1987)
- Chuska Mountains, Fall (1987)
- core catalog, Michalski and Richards (1987)
- Duncan field, Eiceman (1987)
- ground-water pollution, Eiceman (1987)
- hydrogeology, Peter, Williams, and King (1987)
- hydrology, McAda and Shelton (1987)
- Lee Acres landfill area, Peter, Williams, and King (1987)
- mining technology, Rowe and Armitage (1987)
- Navajo mine, Stone (1987a,b)
- petroleum and natural gas production wastes, Eiceman (1987)
- Shiprock, Delaney, P. T. (1987); Picard (1987)
- San Juan River**, Goetz and Abeyta (1987); Goetz, Abeyta, and Thomas (1987)
- San Juan River valley**, McAda and Shelton (1987)
- San Juan volcanic field**, Ratté (1987)
- San Luis Valley**, Dungan (1987)
- San Mateo Mountains**, Cox, Hermann, and Hesse (1987); Hermann (1987); Osburn (1987)
- San Miguel County**
- magnetic survey, U.S. Geological Survey (1987c)
- petroleum and natural gas, Bayliss and Schwarzer (1987d,k,m)
- road log, Menges, Dethier, Love, and Karas (1987)
- Sabinoso Wilderness Study Area, Leibold, Saltus, Grauch, Lindsey, and Almquist (1987)
- Sabinoso area, U.S. Geological Survey (1987c)
- San Rafael Group**
- Entrada Sandstone, Lucas, Hunt, and Hayden (1987c); Snoparsky (1987); Williams, J. E. (1987)
- Todilto Limestone, Lucas (1987c)
- Wanakah Formation, Lucas (1987c); Ridgley (1987a)
- Sandia Formation**, *see* Magdalena Group
- Sandia Mountains**
- mastodon, Lucas (1987a)
- Placitas-Juan Tabo metamorphism, Vernon (1987)
- tectonics, Wallace and Chase (1987)
- Sandoval County**
- Aztec 2° quadrangle, Manley, K., Scott, and Wobus (1987)
- Cabezon Peak, de Gruyter, Lutonsky, Vincent, and Berger (1987)
- Cabezon Wilderness Study Area, Soulliere, Long, and Tuftin (1987)
- Cochiti mining district, Apodaca (1987)
- core catalog, Michalski and Richards (1987)
- Cutler Formation, Eberth (1987)
- Elk Springs-La Ventana area, de Gruyter, DeLong, Berger, and Vincent (1987a)
- Empredrado watershed, de Gruyter, DeLong, Berger, and Vincent (1987b)
- geothermal energy, Fenton Hill site, Brown, D. W., Franke, Smith, and Wilson (1987); Burns (1987a-c); Cheng (1987); Dennis, Kolar, and Lawton (1987); Dey and Brown (1987); Dreesen, Malzahn, Fehler, and Dash (1987); Dreesen, Miller, and Nicholson (1987); Fehler (1987a-c); Fehler, Dreesen, and Malzahn (1987); Fehler, House, and Kaidea (1987); Hendron (1987a,b); House (1987a,b); House and Jensen (1987); Kelkar, Dash, Malzahn, and Hendron (1987); Kelkar and Malzahn (1987); Levy (1987); Murphy (1987a-c); Murphy, Hendron, Miller, and Dreesen (1987); Nielson and Hulen (1987a); Potter, R. M., and Fehler (1987); Purtymun, Ferenbaugh, Becker, Williams, and Maes (1987); Robinson, B. A., Aguilar, Kanaori, Trujillo, Counce, Birdsell, and Matsunaga (1987); Robinson, B. A., and Jones (1987); Schillo, Nicholson, Hendron, and Thomson (1987); Smith, L. N. (1987); Trujillo, Counce, Grigsby, Goff, and Shevenell (1987); Umieda and Sasaki (1987); Whetten, Dennis, Dreesen, House, Murphy, Robinson, and Smith (1987)
- Mesa San Luis, de Gruyter, DeLong, Berger, and Vincent (1987b)
- Nacimiento mine, Martin, D. C. (1987)
- Ojito area, DeLong, Lutonsky, Berger, de Gruyter, and Vincent (1987)
- Ojito Wilderness Study Area, Soulliere, Long, and Tuftin (1987)
- paleontology, Berman, Reisz, and Eberth (1987a); DeLong, Lutonsky, Berger, de Gruyter, and Vincent (1987); Martini, Hunt, and Lucas (1987)
- petroleum and natural gas, Bayliss and Schwarzer (1987b,c,i,j); McCaslin (1987b,c)
- Placitas-Juan Tabo area, Vernon (1987)
- road log, Gabelman, Robertson, and McLemore (1987)
- Sierra Nacimiento, Woodward (1987a)
- Soda Dam, Goff and Shevenell (1987)
- Tent Rocks, de Gruyter, DeLong, Hester, and Walter (1987)
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- diagenesis, Russo (1987)
- eolian sandstones, Parrish and Peterson (1987); Peterson, F. (1987)
- Paleozoic, Stageman (1987a)
- radioactive-waste disposal, Brookins (1987b,c)
- southern New Mexico, Stageman (1987a)
- Sangre de Cristo Formation**, Caldwell, K. R. (1987); Soegaard and Caldwell (1987)
- Sangre de Cristo Mountains**
- general, Wells and Menges (1987)
- glacial geology, Shroba (1987); Wells and others (1987); Wesling (1987)
- Lake Peak, Shroba (1987)
- Pecos greenstone belt, Robertson and Fulp (1987)
- range-bounding fault zone, Menges (1987a-d); Menges and Wells (1987)
- soil science, Shroba (1987); Wesling (1987)

- tungsten mineralization, Fulp (1987)
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- Santa Fe County**
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- Santa Rosa Sandstone**, *see* Dockum Group
- Sarten Sandstone**, Cobban (1987a); Mack (1987a-c)
- sedimentation**
Abo Formation, Looff (1987)
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Brushy Canyon Formation, Rossen and Sarg (1987)
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Castile Formation, Robinson, J. Q., and Powers (1987)
Cherry Canyon Formation, Rossen and Sarg (1987)
Chinle Formation, Dubiel (1987a,b)
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Cutler Formation, Eberth (1987); Fracasso (1987b)
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Love Ranch Formation, Raimonde (1987)
Madera Formation, Ude and Soegaard (1987)
Magdalena Group, Kalesky (1987)
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Montoya Formation, Bruno (1987); Stageman (1987a)
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Sangre de Cristo Formation, Caldwell, K. R. (1987); Soegaard and Caldwell (1987)
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- Goff, Nielson, Gardner, and Hulen (1987); Goff, Nielson, Gardner, Hulen, Lysne, Shevenell, and Rowley (1987); Goff and Shevenell (1987); Goff, Shevenell, and Gardner (1987); Gonzalez and McKibben (1987); Hulen and Nielson (1987); Hulen, Nielson, Goff, and Gardner (1987); Hulen, Nielson, Goff, Gardner, and Charles (1987); Janecky, Charles, and Goff (1987); Manley, C. R., and Fink (1987); Munroe and Sass (1987); Nielson and Hulen (1987b); Roberts, Aki, and Fehler (1987); Rowley, Hawkins, and Gardner (1987); Shevenell, Goff, Vuataz, Trujillo, Counce, Janik, and Evans (1987); Spell (1987); Spell and Kyle (1987); Spell, Kyle, and Gardner (1987); Sullivan, G. E., and Barker (1987a,b); Tomczyk and Morgan (1987); Wolff, Self, Kyle, and Gardner (1987)
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