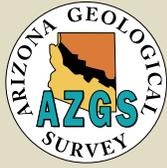


Arizona Geological Survey



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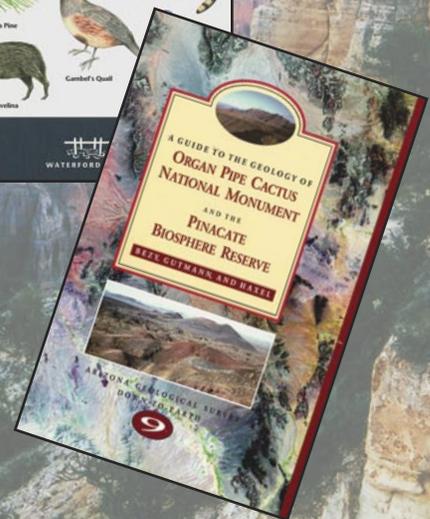
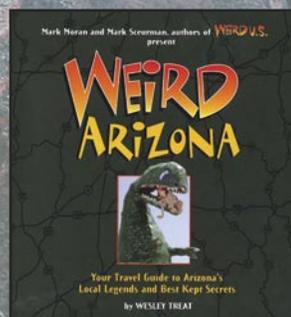
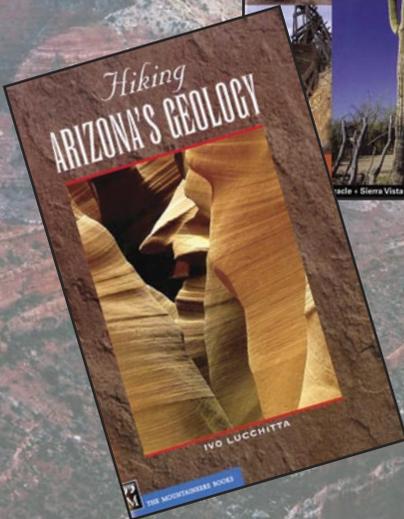
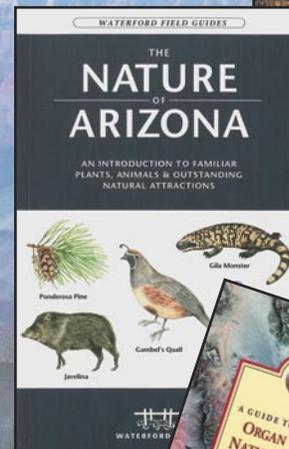
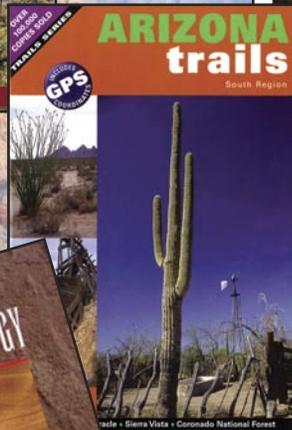
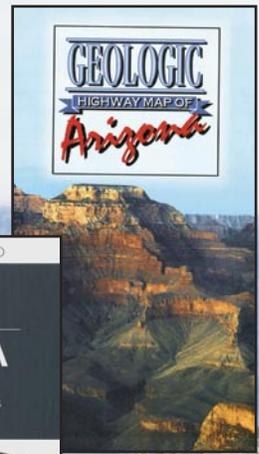
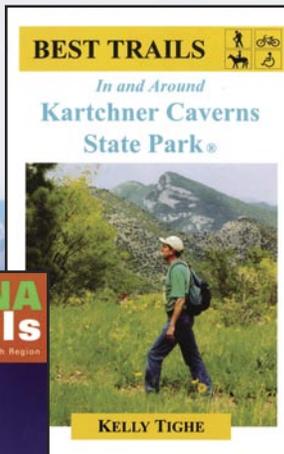
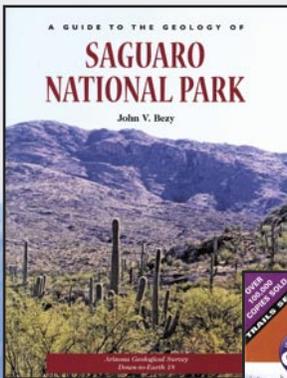
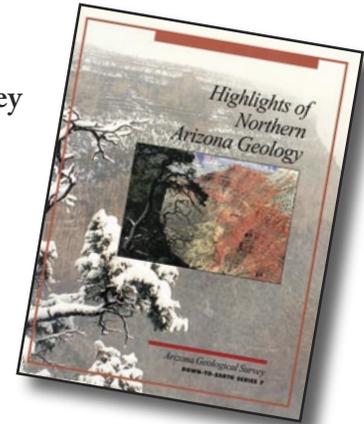
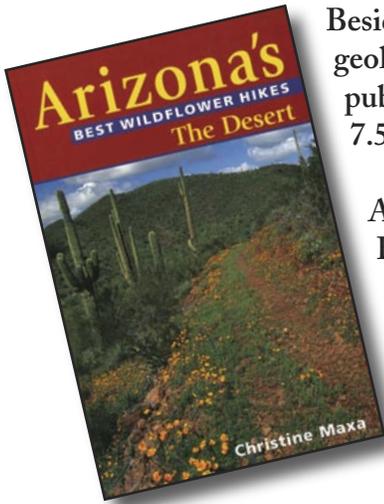
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Arizona Geological Survey

FROM THE DIRECTOR

This is likely to be the last paper publications catalogue produced by the Arizona Geological Survey. The near-ubiquitous access to online resources, the high cost of printing and mail, and our users' demands for more timely updates, all combine to put the handwriting on the wall (or is it the typeface on the screen?). Everyone today expects to find this kind of information on our website.

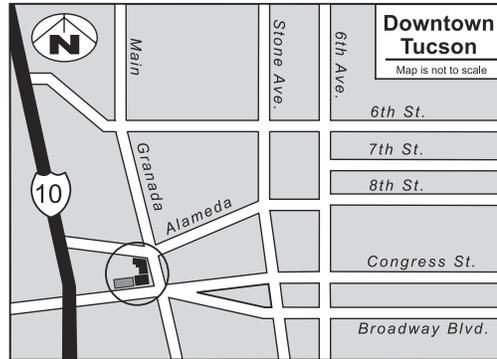
AZGS is in process of creating an online digital catalogue, with more information about publications and index maps, showing the areas covered by reports and maps. We are also building an online store, where you can add items to your shopping cart and check out using a credit or debit card.

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Meanwhile, this catalogue offers the best and most up-to-date listing of publications and maps available from the AZGS.

Thanks for reading.

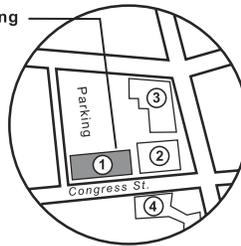
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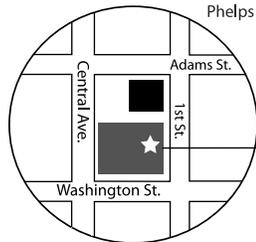
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- ② State Office Bld. South
- ③ State Office Bld. North
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MISSION

The mission of the Arizona Geological Survey is to collect, disseminate, and archive information about the geologic character, processes, hazards, and mineral and energy resources of Arizona and to inform, advise, and assist the public in order to foster understanding and prudent development of the State's land, water, mineral, and energy resources.

BULLETINS (B)

B-165—One Hundred Arizona Minerals, by R.T. Moore, 1955 (reprinted 1966, 1975, and 1991), 35 p. **\$5.75**

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B-173—Bibliography of the Geology and Mineral Resources of Arizona, 1848-1964, by R.T. Moore and E.D. Wilson, 1965, 321 p. **\$5.75**

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B-179—Mineral Deposits of the Gila River Indian Reservation, Arizona, by E.D. Wilson, 1969, 34 p., scale 1:250,000, 1:12:000, 3 sheets. **\$2.25**

B-180—Geology and Mineral Resources of Arizona, by U.S. Geological Survey, Arizona Bureau of Mines, and U.S. Bureau of Reclamation, 1969 (reprinted 1989), 467 p. [Photocopy only] **\$22.00**

B-182—Coal, Oil, Natural Gas, Helium, and Uranium in Arizona, by H.W. Peirce, Stanton B. Keith, and J.C. Wilt, 1970, 289 p., 15 sheets. **\$11.50**

B-183—Geologic Guidebook 3 - Highways of Arizona; Arizona Highways 85, 86, and 386, by Stanton B. Keith, 1971, 80 p. **\$3.50**

B-185—Arizona Well Information, by H.W. Peirce and J.R. Scurlock, 1972 (reprinted 1988), 195 p. **\$19.00**

B-186—Geology of the Virgin and Beaverdam Mountains, Arizona, by R.T. Moore, 1972, 65 p., scale 1:62,500. **\$7.00**

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B-189—Index of Mining Properties in Pima County, Arizona, by Stanton B. Keith, 1974, 156 p. **\$7.00**

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B-193—Arizona Earthquakes, 1776-1980, by S.M. DuBois, A.W. Smith, N.K. Nye, and T.A. Nowak, Jr., 1982, 456 p., scale 1:1,000,000 [includes Map 16]. **\$17.25**

B-194—Metallic Mineral Districts and Production in Arizona, by Stanley B. Keith, D.E. Gest, Ed DeWitt, Netta Woode Toll, and B.A. Everson, 1983, 58 p., scale 1:1,000,000 [includes Map 18]. "Out-of-Print, available as photocopy only." **\$11.50**

B-195—Geology of the South Mountains, Central Arizona, by S.J. Reynolds, 1985, 61 p., scale 1:24,000. **\$11.50**

B-196—Mine Index for Metallic Mineral Districts of Arizona, by J.W. Welty, S.J. Reynolds, Stanley B. Keith, D.E. Gest, R.A. Trapp, and Ed DeWitt, 1985, 92 p. **\$8.00**

B-197—Compilation of Radiometric Age Determinations in Arizona, by S.J. Reynolds, F.P. Florence, J.W. Welty, M.S. Roddy, D.A. Currier, A.V. Anderson, and Stanley B. Keith, 1986, 258 p., scale 1:1,000,000, 2 sheets, includes Maps 24 and 25, [photo copy of text only]. **\$18.50**

B-198—Geology and Mineral Resources of the Buckskin and Rawhide Mountains, West-Central Arizona, edited by J.E. Spencer and S.J. Reynolds, 1989, 280 p., scale 1:24,000, 1:42,850, and 1:100,000, 3 sheets. **\$30.00**

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- M-14**—Geologic Map and Cross-Sections of Arizona, compiled by J.R. Cooper and G.C. Cone, with cross-sections by H.W. Peirce, 1969, scale 1:2,500,000 [included in Open-File Report 79-4]. **Free**
- M-15-2**—Geothermal Resources of Arizona, by J.C. Witcher, Claudia Stone, and W.R. Hahman, Sr., 1982, scale 1:500,000. **\$5.75**
- M-16**—Historical Epicenters in Arizona, 1830-1980, by S.M. DuBois, T.A. Nowak, A.W. Smith, and N.K. Nye, 1982, scale 1:1,000,000 [also included in Bulletin 193]. **Free**
- M-17**—Index of Published Geologic Maps of Arizona, 1903-1982, by R.B. Scarborough and M.L. Coney, 1982, scale 1:1,000,000, 6 sheets. [See also M-31] All 6 sheets. **\$9.25**
- M-18**—Metallic Mineral Districts of Arizona, by Stanley B. Keith, D.E. Gest, and Ed DeWitt, 1983, scale 1:1,000,000 [also included in Bulletin 194]. **\$8.00**
- M-19**—Map of Outcrops of Laramide (Cretaceous-Tertiary) Rocks in Arizona and Adjacent Regions [includes explanatory pamphlet], by Stanley B. Keith, 1984, scale 1:1,000,000. **\$7.00**
- M-20**—Map of Mid-Tertiary Volcanic, Plutonic, and Sedimentary Rock Outcrops in Arizona, by R.B. Scarborough, 1986, scale 1:1,000,000. **\$3.50**
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- M-22**—Late Pliocene-Quaternary (Post-4-M.Y.) Faults, Folds, and Volcanic Rocks in Arizona, by R.B. Scarborough, C.M. Menges, and P.A. Pearthree, 1986, scale 1:1,000,000. **\$3.50**
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GEOLOGIC MAPS

Map publications listed below include: 1) Geologic Maps (Maps **(M)**), 2) Digital Geologic Maps (**DGM**), 3) Miscellaneous Maps (**MM**), 4) Contributed Maps (**CM**), and 5) Geologic Investigation Folios (**GI**).

MAPS (M)

Most maps are printed in color, unless otherwise stated. Mail orders receive folded, not rolled, maps.

- M-1**—Base Map of Arizona, 1983, scale 1:1,000,000, black and white only. **\$1.25**
- M-2**—Geologic Map of Superior Mining Area, Arizona, 1942, scale 1:12,000. **\$1.50**

County Geologic Map Series (Geologic Maps of Arizona Counties are printed in color.)

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- M-3-2**—Coconino County, 1960. **\$9.00**
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- M-3-4**—Graham and Greenlee Counties, 1958. **\$9.00**
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- M-3-6**—Mohave County, Arizona. **\$9.00**
- M-3-7**—Navajo and Apache Counties, 1960. **\$9.00**

M-24—Map of K-Ar and Ar-Ar Age Determinations in Arizona, by S.J. Reynolds, F.P. Florence, M.S. Roddy, J.W. Welty, and R.A. Trapp, 1986, scale 1:1,000,000 [also included in Bulletin 197]. **\$3.50**

M-25—Map of Fission-Track, Rb-Sr, and U-Pb Age Determinations in Arizona, by S.J. Reynolds, F.P. Florence, M.S. Roddy, J.W. Welty, and R.A. Trapp, 1986, scale 1:1,000,000 [also included in Bulletin 197]. **\$3.50**

M-27—Geologic Map of the Vulture Mountains, by M.J. Grubensky, 1989, scale 1:24,000, 3 sheets. Black and white only. **\$17.25**

M-29—Geologic Map of the Little Horn Mountains 15' Quadrangle, Southwestern Arizona, by M.J. Grubensky and K.A. Demsey, 1991, 10 p., scale 1:50,000. Black and white only. Text and sheet **\$7.00**

M-30—Geologic Map and Sections of the Granite Wash Mountains, West-Central Arizona, by S.J. Reynolds, J.E. Spencer, S.E. Laubach, Dickson Cunningham, and S.M. Richard, 1991, scale 1:24,000. **\$7.00**

M-31—Index of Published Geologic Maps of Arizona: 1982 to mid-1993, by R.C. Harris, R.A. Trapp, T.G. McGarvin, and J.E. Spencer, 1994, 45 p., scale 1:1,000,000, 3 sheets. [See also M-17] Text and sheets. **\$9.25**

M-32—3-D Map of Arizona, 1998, scale 1:750,000. **\$9.95**

M-33—Arizona Geologic Highway Map, 1998, scale 1:1,000,000. Available as a folded map only. **\$11.50**

M-34—Earthquake Hazards Map, by P.A. Pearthree and D.B. Bausch, 1999, scale 1:1,000,000. **\$7.00**

M-35—Geologic Map of Arizona, by S.M. Richard, S.J. Reynolds, J.E. Spencer, and P.A. Pearthree, compilers, 2000, scale 1:1,000,000. (For rolled map, add \$1.00/\$1.25 for mailing tube. Rolled maps cannot be delivered to P.O. Box) **\$5.75**

M-36—Luke Salt Deposit, by S.L. Rauzi, 2002, scale 1:63,360. **\$5.75**

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Digital Geologic Maps (DGM) are color maps that are printed on demand (print copies are noted with an S for sheet; e.g. DGM-01,S) at the Arizona Geological Survey. The DGMs are available on a CD-ROM as an Adobe® Acrobat (.pdf) file, too. Updated map data that includes new geologic mapping is provided a new publication year and version number (for example, change from publication in 2002 to 2004 and from version 1.0 to 2.0). Minor changes, for example adding a cross section or incorporating new geochronologic data, results in a new, fractional version number (e.g. from 1.0 to 1.1); no change is made to the publication year. DGM maps listed as v. 1.0 or v. 1.1 do not indicate version num-

ber on the map. Since 2000, most new maps produced by the Arizona Geological Survey are in this series.

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- DGM-62**—Geologic Map of the Wildhorse Mountain 7.5' Quadrangle, Cochise County, Arizona, v 1.0, by Jon E. Spencer, Joseph P. Cook, Steven H. Lingrey, Stephen M. Richard, Charles A. Ferguson, and Jerome H. Guynn, 2008. **\$15.00**
- DGM-62-S**, 1 color map, scale 1:24,000, with 16 pages text **\$18.00**
- DGM-63**—Geologic Map of the Antelope Peak NE 7.5' Quadrangle and the southern 2/3 of the Maricopa 7.5' Quadrangle, Pinal County, Arizona, v.1.0, by Philip A. Pearthree, Charles A. Ferguson and Michael K. Mahan, 2008, **\$15.00**
- DGM-63-S**—2 color maps, scale 1:24,000, and 17 pages text. **\$17.00**
- DGM-64**—Geologic Map of the east half of the Black Canyon City 7.5' Quadrangle and the west half of the Squaw Creek Mesa 7.5' Quadrangle, Maricopa and Yavapai Counties, Arizona, v. 1.0, by Charles A. Ferguson, David E. Haddad, Bradford J. Johnson, Jerome H. Guynn, and Jon E. Spencer, 2008 **\$15.00**
- DGM-64-S**—one color map, scale 1:24,000, with text. **\$17.00**

MISCELLANEOUS MAPS (MM)

The Miscellaneous Map series, discontinued in January 1989, provided an outlet for geologic maps produced by geologists from outside the AZGS. These maps represent, nonetheless, a significant contribution to the geoscience literature of Arizona. A number of the maps stem from theses and dissertations and would not have been readily available to the public if they had not been placed in the Miscellaneous Map series. Unless otherwise stated, all maps are reproduced as blue-line copies made from mylars provided by the authors. The "Miscellaneous Maps" series was replaced in 1989 by the "Contributed Maps" series.

- MM-76-B**—Geologic Map of the Mayer-Crown King Area, Yavapai County, Arizona, and Metamorphic and Chemical Data Map, Mayer-Crown King Area, Yavapai County, Arizona, by Ed DeWitt, 1976, scale 1:24,000, 2 sheets. **\$9.00**
- MM-77-A**—Geologic Map and Section of the Canada Del Oro Valley Headwaters, Santa Catalina Mountains, Pima-Pinal Counties, Arizona, by G.A. Suemnicht, 1977, scale 1:12,000. **\$2.25**
- MM-78-A**—Silver Mountain Geology (North Half and South Half), by R.C. Winegar, 1978, scale 1:4,800, 2 sheets. Each sheet \$2.00 \$2.25; Complete set **\$4.50**
- MM-81-A**—Geologic Maps and Sample Location Map of the Northern Picacho Mountains, Pinal County, Arizona, by G.S. Johnson, 1981, scale 1:24,000 and 1:6,000, 3 sheets. All 3 sheets. **\$8.75**
- MM-83-A**—Geologic Map of the Buehman Canyon Area, Pima County, Arizona, by Ann Bykerk-Kauffman, 1983, scale 1:6,000. **\$4.00**
- MM-84-A**—Geologic Setting of Precious Metals Mineralization, King of Arizona District, Kofa Mountains, Yuma County, Arizona, by D.D. Hankins, 1984, scale 1:12,000 [Topography not visible]. **\$3.00**
- MM-85-A**—Geologic Map of the Pajarito Mountains, Santa Cruz County, Arizona, by Nancy Riggs, 1985, scale 1:12,000. **\$4.25**
- MM-85-B**—Geologic Map of the Plomosa Pass Area, Northern Plomosa Mountains, La Paz County, Arizona, by D.A. Stoneman, 1985, scale 1:12,000. **\$3.50**

MM-85-C—Geologic Map and Structure Section of the Northern Dome Rock Mountains, La Paz County, Arizona, by K.J. Yeats, 1985, scale 1:12,000. **\$3.50**

MM-85-D—Geologic Map and Geologic Cross Sections Through the Hot Springs Canyon Area, Cochise County, Arizona, by T.C. Goodlin and R.A. Mark, 1985, scale 1:24,000, 2 sheets. Both sheets **\$4.50**

MM-86-A—Geologic Map of the Geesaman Wash Area, Pima and Pinal Counties, Arizona, by S.U. Janecke, 1986, scale 1:12,000. **\$2.25**

MM-86-B—Geologic Map of the Northwest Granite Wash Mountains, and Geologic Cross Sections to Accompany Geologic Map of the Northwest Granite Wash Mountains, La Paz County, Arizona, by W.D. Cunningham, 1986, scale 1:10,000, 2 sheets. Both sheets **\$3.50**

MM-86-C—Geologic Relations in the Kelsey Canyon Area, Cochise County, Arizona, by W.R. Dickinson, 1986, 3 p., scale 1:24,000. Text and sheet **\$2.25**

MM-87-A—General Geologic Map of Catalina Core Complex and San Pedro Trough, Arizona, by W.R. Dickinson, 1987, 18 p., scale 1:62,500, 15 sheets. [1-Ray and Christmas; 2-96 Hills; 3-Winkelman; 4-Holy Joe Peak and Klondyke; 5-Tortolita Mountains; 6-Oracle; 7-Mammoth; 8-Galiuro Mountains; 9-Cortaro; 10-Mt. Lemmon; 11-Bellota Ranch; 12-Redington and Winchester Mountains; 13-San Xavier and Tucson; 14-Empire Mountains, Rincon Valley, and Tucson; 15-Benson, Dagoon, and Happy Valley]. Text, **\$3.50**; Each sheet **\$1.25**; Complete set. **\$18.00**

MM-87-B—Geology of the Battleship Peak Area, Buckskin Mountains, La Paz County, Arizona, by Stephen Marshak, Marc VanderMeulen, and Snehal Bhagat, 1987, scale 1:8,000. **\$5.75**

MM-87-C—Reconnaissance Geologic Map of Mineta Ridge and Blanco Ridge Area, Pima and Cochise Counties, Arizona, by W.R. Dickinson and M.D. Olivares, 1987, 3 p., scale 1:24,000. Text and sheet **\$4.00**

MM-87-D—Bedrock Geology From New River Mesa to the Northern Phoenix Basin, Arizona, by K.J. Jagiello, 1987, scale 1:24,000. **\$4.50**

MM-88-A—Geologic Map of Santa Fe Pacific Railroad Company Mineral Holdings in Northwestern Arizona, by Santa Fe Pacific Railroad Company, 1981, scale 1:250,000. **\$5.75**

MM-88-B—Geology of the Willcox North Quadrangle and the Southernmost Greasewood Mountain Quadrangle, Arizona, by Rolfe Erickson, 1988, 6 p., scale 1:24,000. Text and sheet **\$3.50**

CONTRIBUTED MAPS (CM)

The Contributed Map series replaced the Miscellaneous Map series in January 1989. See the description for “Miscellaneous Maps” for more details. Contributed maps in digital format were added to the Contributed Map Series beginning with CM-04-A.

The digital versions are available on CD-ROM as Adobe® Acrobat (.pdf) file or files. Contributed maps are still available in print version. New digital versions are given version numbers because, like the DGM Series, they can be updated with new data and provided a new version number (see the DGM Series description for information about versioning).

CM-89-A—Geologic Map and Cross Sections of the Northern Tortilla Mountains, Pinal County, Arizona, by E.A. Schmidt, 1989, scale 1:12,000, 6 sheets. All 6 sheets. **\$11.50**

CM-89-B—Geologic Map of the Salt River Region, Rockinstraw Mountain Quadrangle, Gila County, Arizona, by J.E. Faulds, 1989, scale 1:24,000, 3 sheets. All 3 sheets. **\$5.75**

CM-89-C—Geologic Map of the Little Rincon Mountains, by C.H. Smith, 1989, scale 1:10,000. **\$3.50**

CM-89-D—Geologic Map of the Northern Plomosa Mountains, Yuma [La Paz] County, Arizona, by Robert Scarborough and Norman Meader, 1981, scale 1:24,000. **\$4.50**

CM-89-E—Geologic Map and Cross Sections of the Southwestern Part of the New River Mountains, Arizona, by S.R. Maynard, 1989, scale 1:12,000, 2 sheets. Both sheets **\$4.50**

CM-90-A—Geology of the Big Bug Metallic Mineral District, Arizona, by P.F. O’Hara, 1990, scale 1:12,000, 2 sheets. Both sheets **\$3.50**

CM-90-B—Geological Map of the Black Rock Detachment, Santa Teresa Mountains, SE Arizona, by J. Toro, G.E. Gehrels, R.A. Johnson, T.H. Biggs, E. Centeno-Garcia, N.I. Colburn, J.L. Jackson, J.M. Kruger, N.M. Meader, G.S. Pitts, P.A. Restrepo, and S.M. Skirvin, 1990, scale 1:12,000. **\$4.50**

CM-90-C—Generalized Geologic Map of the Kaiser Spring Volcanic Field, Mohave County, Arizona, by T.C. Moyer, 1990, 18 p., scale 1:50,000. Text and sheet **\$5.75**

CM-91-A—Geologic Map and Cross Sections of the Washington Camp-Duquesne Mining District, Patagonia Mountains, Santa Cruz County, Arizona, by N.E. Lehman, 1978, scale 1:4,800, 3 sheets. All 3 sheets **\$5.75**

CM-91-B—Geologic Map and Balanced Cross-Section of the Northern Mazatzal Mountains, Central Arizona, by D.D. Puls, 1985, scale 1:10,000, 2 sheets. Both sheets **\$6.25**

12 CONTRIBUTED MAPS

- CM-91-C**—Geologic Map and Cross-Section of Early Proterozoic Rocks of McDonald Mountain — Breadpan Mountain Area, Northern Sierra Anchas, Gila County, Arizona, by S.M. Sherlock, 1986, scale 1:10,000, 2 sheets. Both sheets **\$5.75**
- CM-91-D**—Geologic Map and Proterozoic Structure of Crazy Basin Area, Yavapai County, Arizona, by D.N. Argenbright, 1985, scale 1:10,000. **\$4.50**
- CM-91-E**—Geologic Map of the Sheep Basin Mountain Area, Northern Sierra Anchas, Gila County, Arizona, by T.B. Brady, 1987, scale 1:10,000. **\$5.75**
- CM-91-F**—Geologic Map and Cross-Section of the Central Mazatzal Mountains, Central Arizona, by J.A. Roller, 1986, scale 1:10,000, 2 sheets. Both sheets **\$7.00**
- CM-91-G**—Geologic Map and Proterozoic Structure of the Cleator Shear Zone, Yavapai County, Arizona, by Mark Darrach, 1987, scale 1:3,000. **\$5.25**
- CM-91-H**—Geologic Map of the Western Half of the Young Quadrangle, Northern Sierra Anchas, and Geologic Map of the Marsh Creek Area, Diamond Butte and Young Quadrangles, Gila County, Arizona, by M.L. Labrenz, 1988, scale 1:24,000 and 1:10,000, 2 sheets. Both sheets. **\$4.50**
- CM-91-I**—Geologic Map of the Jakes Corner Area and Geologic Cross-Section of Early Proterozoic Rocks of the Jakes Corner Area, Northern Sierra Anchas, Gila County, Arizona, by R.L. Wessels, 1990, scale 1:10,000, 2 sheets. Both sheets **\$9.75**
- CM-91-J**—Geologic Map of the Northern Mazatzal Mountains and Geologic Cross-Sections of the South Fork of Deadman Creek and Barnhardt — Shake Tree Canyon, Central Arizona, by M.F. Doe, 1991, scale 1:24,000, 2 sheets. Both sheets **\$6.00**
- CM-91-K**—Geologic Map of the Peacock Mountains and Southern Grand Wash Cliffs, Including Peacock Peak, Antares, Hackberry, Valentine, and the Southern Half of the Music Mountain SE and Milkweed Canyon SW 7.5-Minute Quadrangles, Northwestern Arizona, by A.L. Albin, 1991, scale 1:24,000. **\$6.00**
- CM-91-L**—Geologic Map of Sierrita Caldera Fragment, Sierrita Mountains, Pima County, Arizona, by C.J. Fridrich, 1991, scale 1:24,000. **\$2.25**
- CM-92-A**—Geologic Map of Part of the Southern Plomosa Mountains, West-Central Arizona, by Felix Lerch, 1992, scale 1:12,200. **\$2.25**
- CM-92-B**—Preliminary Geologic Map of Tertiary Sedimentary Rocks in the Northern Rawhide Mountains, Mohave County, Arizona, by J.C. Yarnold and B.J. McDaniel, 1992, scale 1:18,000. **\$3.50**
- CM-92-C**—Geologic Map of Catalina Core Complex and San Pedro Trough, by W.R. Dickinson, 1992, scale 1:125,000. **\$9.25**
- CM-92-D**—Geologic Map of the Sycamore Creek Region, Maricopa County, Arizona, by Steve Skotnicki, 1992, scale 1:24,000. **\$4.00**
- CM-93-A**—Geology of the South-Central Goldfield Mountains, Arizona, by E.B. Melchiorre and D.M. Clemens, 1993, scale 1:10,000. **\$2.25**
- CM-93-B**—Summary Geologic Map of Black Hills, Near Mammoth, Pinal County, Arizona, by W.R. Dickinson, 1993, scale 1:24,000. **\$3.50**
- CM-93-C**—Geologic Map of the Moon Mtns., Colorado River Indian Reservation, La Paz Co., Arizona, by J.H. Knapp, 1993, scale 1:24,000. **\$3.50**
- CM-93-D**—Geologic Map of Mesquite Mtn., Colorado River Indian Reservation, La Paz Co., Arizona, by J.H. Knapp, 1993, scale 1:24,000. **\$3.50**
- CM-93-E**—Geologic Map of Volcanic Rocks Along the East Side of Central Chino Valley, Yavapai County, Arizona, by W.L. Stefanov, 1993, 10 p., scale 1:12,000. **\$3.50**
- CM-93-F**—Geologic Map of the Black Mountains Accommodation Zone, Mohave County, Arizona, by J.E. Faulds, 1993, scale 1:12,000, 4 sheets **\$13.75**
- CM-94-A**—Geology of the Enebro Mountain Area, Greenlee County, Arizona, by E.B. Melchiorre, 1994, scale 1:10,600. **\$2.25**
- CM-94-B**—Geologic Map of Star Flat - Willow Springs Area, Pinal County, Arizona, by W.R. Dickinson, 1994, 3 p., scale 1:24,000. Text and sheet **\$1.75**
- CM-94-C**—Geologic Map of the Mormon Lake Quadrangle, Coconino County, Arizona, by R.F. Holm, 1994, 24 p., scale 1:24,000. Text and sheet **\$6.25**
- CM-94-D**—Geology of the Phoenix Mountains, Maricopa County, Arizona, by D.C. Shank and T.L. Péwé, 1994, scale 1:15,000. **\$4.00**
- CM-94-E**—Reconnaissance Environmental Geology of Northern Scottsdale, Maricopa County, Arizona, by T.L. Péwé, Jim Bales, and Melissa Montz, 1994, scale 1:24,000, 3 sheets, [1-geology; 2-geologic hazards; 3-waste disposal]. Each sheet **\$3.50, \$4.00**, complete set **\$12.00**
- CM-94-F**—Reconnaissance Environmental Geology of the Tonto Foothills, Scottsdale, Maricopa County, Arizona, by T.L. Péwé, Ray Kenny and Jim Bales, 1994, scale 1:24,000, 4 sheets, [1-geology; 2-geologic hazards; 3-waste disposal; 4-flooding]. Each sheet **\$3.50** **\$4.00**; complete set **\$16.00**

- CM-94-G**—Trace of Main Displacement Surface (Bedrock/
Basin Fill Contact) of Pirate Fault Zone, West Flank of Santa
Catalina Mountains, Pima and Pinal Counties, Arizona, by W.R.
Dickinson, 1994, 9 p., scale 1:24,000. Text and sheet **\$3.50**
- CM-96-A**—Geologic Map and Cross Sections of the Enebro
Mountain Rhyolite, Greenlee County, Arizona, by T.J. Schroder
II, 1996, 2 sheets, scale 1:12,000. **\$4.50**
- CM-96-B**—Geologic Map of the Ripsey Wash area, Pinal
County, Arizona, by W.R. Dickinson, 1996, 7 p., scale 1:24,000.
Text and sheet **\$3.00**
- CM-96-C**—Geologic Map of the Summit Area of House
Mountain, Yavapai County, Arizona, by R.F. Holm and J.H.
Wittke, 1996, 25 p., 2 sheets, scale 1:6,000. Text and sheets
\$10.25
- CM-96-D**—Geology of the Rio Salado Development District,
Eastern Part, Maricopa County, Arizona, by T.L. Péwé and J.K.
Drosendahl, 1996, scale 1:24,000. **\$3.50**
- CM-96-E**—Geology of the Western Part of Coon Bluff, Rio
Salado Development District, Eastern Part, Maricopa County,
Arizona, by T.L. Péwé and J.K. Drosendahl, 1996, scale 1:2,400.
\$3.50
- CM-97-A**—Geologic Map of the Eastern Plomosa Pass Area,
Northern Plomosa Mountains, La Paz County, Arizona, by T.R.
Steinke, 1997, scale 1:3,570. **\$3.50**
- CM-97-B**—Geologic Map of the Santa Maria Mountains
Volcanic Field, Yavapai County, Arizona, by N.A. Ash, 1997,
scale 1:24,000. **\$4.00**
- CM-98-A**—Facies Map of Post-Mid-Miocene Quiburis
Formation, San Pedro Trough, Pinal, Pima, Gila, Graham, and
Cochise Counties, Arizona, by W.R. Dickinson, 1998, 6 p., 10
sheets, scale 1:24,000. Text and sheets **\$20.00**
- CM-98-B**—Geologic Relations of Martinez Ranch Fault and
Happy Valley Neogene Basin, East Flank of Rincon Mountains,
Pima County, Arizona, by W.R. Dickinson, 1998, 16 p., scale
1:24,000. Text and sheet **\$5.75**
- CM-99-A**—Map of Volcanic Geology of the Wood Chop
Mesa Area, Hopi Buttes (Tsézhin Bii'), Navajo Nation, Arizona,
by J.A. Vasquez, 1999, scale 1:12,000. **\$3.50**
- CM-99-B**—Geologic Framework of the Catalina Foothills,
Outskirts of Tucson (Pima County, Arizona), by W.R.
Dickinson, 1999, 31 p., scale 1:24,000. Text and sheet
\$9.25
- CM-99-C**—Geologic Map of the New River Quadrangle and
Part of the Daisy Mountain Quadrangle, Maricopa and Yavapai
Counties, Arizona, by Bruce Bryant, 1999, 32 p., scale 1:24,000.
Text and sheet **\$10.25**
- CM-00-A**—Map of the Volcanic Geology of the Castle Butte
Trading Post Vicinity, Hopi Buttes (Tsezhin Bii), Navajo
Nation, Arizona, by J.A. Hooten, 1999, scale 1:12,000. **\$4.50**
- CM-00-B**—Summary of Tertiary Stratigraphic and Structural
Relationships, Camp Grant Wash-Antelope Peak Area, Pinal
County, Arizona, by W.R. Dickinson, 2000, 10 p., scale
1:24,000. Text and sheet **\$6.25**
- CM-00-C**—Geology of the Los Adobes Rancho Area, Sonora,
Mexico, by W.G. Gilbert and D.J. Lajack, 2000, 5 p., scale
1:24,000. Text and sheet **\$5.75**
- CM-01-A**—Geologic Map of Tertiary Volcanic Rocks in
the Southern King Canyon and East Central Chino Valley
North 7.5' Quadrangles, Yavapai County, Arizona, by Heather
Cunningham, 2001, 2 sheets, scale 1:12,000. **\$4.00**
- CM-02-A**—Structural Reconnaissance of Lower Plate Rocks
along the Catalina-Rincon Range Front, Pima County, Arizona,
by E.R. Force, 2002, 11 p., 2 sheets, scale 1:24,000, 1:48,000.
Text and sheets **\$7.00**
- CM-02-B**—Structural and Stratigraphic Relationships of Mid-
Tertiary Strata in the Hackberry Wash-Indian Camp Wash
Intramontane Depression, Tortilla Mountains, Pinal County,
Arizona, by W.R. Dickinson, 2002, 13 p., scale 1:24,000. Text
and sheet **\$7.50**
- NOTE.** *Beginning with CM-04-A, the primary medium of
Contributed Maps is CD-ROM.*
- CM-04-A**—Geologic map of the Phoenix Mountains, Central
Arizona, v. 1.0, by J.K. Johnson, S.J. Reynolds, and D.A. Jones,
2003, 15 p., scale 1:24,000. **\$15.00**
- CM-04-A,T**—Text and color map **\$17.25**
- CM-04-B**—Geologic map of the Grasshopper Junction SE
7.5' Quadrangle, Mohave County, Arizona, v. 1.0, by R.J. Varga,
2001. **\$15.00**
- CM-04-B,S**—One color map, scale 1:24,000 **\$17.25**
- CM-04-C**—Geologic map of the northern Hualapai
Mountains, Mohave County, Arizona, v. 1.0, by B.R. Siwec,
2004. **\$15.00**
- CM-04-C,S**—One color map, scale 1:24,000. **\$8.00**
- CM-04-D**—Geologic maps and cross sections of selected areas
in the Rawhide and Buckskin Mountains, La Paz and Mohave
counties, Arizona, v. 1.0, by R.J. Scott, 2004, 11 p., 7 sheets,
various scales. **\$15.00**
- CM-04-D,T**—Text and color maps. **\$58.00**
- CM-06-A**—Surficial Geologic Map of the Mount Hopkins and
northern part of the San Cayetano Mountains 7.5' Quadrangles,
Santa Cruz and Pima Counties, Arizona, by David A. Lindsey
and Bradley S. Van Gosen, 2006, One color map, scale 1:24,000-
\$15.00

- CM-06-A, S**—One color map, scale 1:24,000 **\$13.00**
- CM-07-A**- Geologic Map of the Black Canyon City and Squaw Creek Mesa area, Central Arizona, by R.S. Leighty, 2007 **\$15.00**
- CM-07-A, S**—46p text, One color map, scale 1:24,000 **\$25.00**
- CM-08-A**—Geologic Map of the Southeastern Santa Catalina Mountains, Pima County, Arizona, by Ann Bykerk-Kauffman, 2008. **\$15.00**
- CM-08-A, S**—Two color maps, scale 1:24,000. **\$18.00**

GEOLOGIC INVESTIGATION FOLIOS (GI)

GI-1—Environmental Geology of the McDowell Mountains Area, Maricopa County, Arizona, by G.E. Christenson, D.G. Welsch, and T.L. Péwé, 10 sheets (GI-1-A to GI-1-J), scale 1:24,000. Complete set **\$18.00**

OIL AND GAS PUBLICATIONS (OG)

In July 1991, the Arizona Legislature transferred regulatory responsibility for the drilling and production of oil, gas, geothermal, and helium resources to the AZGS. The Oil and Gas Conservation Commission (OGCC), as a separate State agency, was eliminated. The most popular OGCC publications are listed below and may be purchased from the AZGS.

- OG-1**—Monthly Oil, Gas, and Helium Production Report, compiled by Arizona Geological Survey. Annual publication, free download at azogcc.az.gov
- OG-2**—Annual Oil, Gas and Helium Production in Arizona, 1954-2007, compiled by S.L. Rauzi, 2007, 20 p. Annual publication, free download at azogcc.az.gov
- OG-3**—Well Location Map, Maricopa County, Arizona, by J.N. Conley, E.A. Koester, and S.L. Rauzi, 1972, updated to 2003, scale 1:500,000, 2 [blue] sheets [OGCC County Series Map 1]. Both sheets **\$1.75**
- OG-4**—Well Location Map, Yuma and La Paz Counties, Arizona, by J.N. Conley, E.A. Koester, and S.L. Rauzi, 1972, updated to 1995, scale 1:500,000 [blue] [includes La Paz County; OGCC County Series Map 2]. **\$1.75**
- OG-5**—Well Location Map, Pinal County, Arizona, by E.A. Koester, J.N. Conley, and S.L. Rauzi, 1972, updated to 1995, scale 1:500,000 [blue] [OGCC County Series Map 3]. **\$1.75**
- OG-6**—Well Location Map, Cochise County, Arizona, by E.A. Koester, J.N. Conley, and S.L. Rauzi, 1972, updated to 1996, scale 1:500,000 [blue] [OGCC County Series Map 4]. **\$1.75**
- OG-7**—Well Location Map, Yavapai County, Arizona, by E.A. Koester, J.N. Conley, and S.L. Rauzi, 1973, updated to 1995, scale 1:500,000 [blue] [OGCC County Series Map 5]. **\$1.75**
- OG-8**—Well Location Map, Mohave County, Arizona, by E.A. Koester, J.N. Conley, and S.L. Rauzi, 1973, updated to 2003, scale 1:500,000 [blue] [OGCC County Series Map 6]. **\$1.75**
- OG-9**—Well Location Map, Pima and Santa Cruz Counties, Arizona, by J.N. Conley, E.A. Koester, and S.L. Rauzi, 1974, updated to 1995, scale 1:500,000 [blue] [OGCC County Series Map 7]. **\$1.75**
- OG-10**—Well Location Map, Graham and Greenlee Counties, Arizona, by J.N. Conley, E.A. Koester, and S.L. Rauzi, 1974, updated to 2005, scale 1:500,000 [blue] [OGCC County Series Map 8]. **\$1.75**
- OG-11**—Well Location Map, Colorado Plateau Province, Arizona: Apache, Coconino, Navajo, and Portions of Adjacent Counties, by J.N. Conley, 1975, 48 p., scale 1:500,000 updated with 4 p. addendum 2000. [OGCC County Series Map 9]. Text and sheet **\$7.00**
- OG-12**—Arizona Well Location Map and Report, compiled by S.L. Rauzi, 2008, 28 p., scale 1:675,000, 2 sheets [OGCC State Series Map]. Text and sheets **\$11.50**
- OG-14**—Pinta Dome—Navajo Springs—East Navajo Springs Helium Gas Pools, Apache County, Arizona, Well Location Map, by J.N. Conley, 1974, scale 1:63,360. Free download at azogcc.az.gov
- OG-15**—Dineh-Bi-Keyah Oil Field, Apache County, Arizona, Well Location Map, by S.L. Rauzi, 2002, scale 1:63,360 [OGCC Pool Series Map P-2]. Free download at azogcc.az.gov
- OG-16**—Structure Map [With Drill Hole and Geophysical Profiles], South-Eastern Arizona, by Salvatore Giardina, Jr., 1979, scale 1:375,500, 2 sheets [OGCC Regional Map G-13, blue only]. Both sheets **\$11.50**
- OG-17**—Mean Annual Temperature Map, State of Arizona, by C.E. Druitt, 1976, scale 1:2,000,000 [OGCC Temperature Map GT-2]. **\$2.00**
- OG-18**—Subsurface Temperature Maps, State of Arizona, by J.N. Conley and O.A. Stacey, 1977, 11 p., scale 1:2,890,000, 2 sheets [OGCC Temperature Map GT-3]. Text and sheets. **\$2.50**
- OG-19**—Structure and Correlation Sections, Eastern Mogollon Slope Region, East-Central Arizona, by J.N. Conley, 1977, 4 sheets [OGCC Geologic Structure/Correlation Section GX5-1]. All 4 sheets **\$4.25**

OG-20—Index of Maps Selected for Energy-Resource Investigations in the State of Arizona, by J.N. Conley, J.R. Scurlock, and O.A. Stacey, 1976, 27 p., scale 1:2,112,000, 3 sheets [OGCC Special Publication 3, photocopy & blue-line only]. Text and sheets **\$5.75**

OG-21—Subsurface Structure Maps, Eastern Mogollon Slope Region, East-Central Arizona, by J.N. Conley, 1977, 18 p., scale 1:500,000, 3 sheets [OGCC Regional Maps G-6A, G-7, and G-8]. **\$4.50**

OG-22—An Integration of Geophysical and Landsat Data—North- Eastern Arizona, by S.I. Gutman and G.A. Heckmann, 1977, scale 1:500,000, 7 sheets [OGCC Open-File Report]. All 7 sheets **\$16.00**

OG-23—A Study of Regional Geophysical Data in the Holbrook Area, Arizona, by C.L.V. Aiken and J.S. Sumner, 1972, 42 p., scale 1:500,000, 2 sheets [OGCC Report of Investigation RI-2]. Text and sheets **\$5.75**

OG-24—A Geophysical and Geological Investigation of Potentially Favorable Areas for Petroleum Exploration in Southeastern Arizona, by C.L.V. Aiken and J.S. Sumner, 1974, 44 p., scale 1:500,000, 3 sheets [OGCC Report of Investigation RI-3]. Text and sheets **\$7.25**

OG-25—Selected Paleozoic Stratigraphic Sections in Arizona, by E.A. Koester, 1973, 24 p., scale 1:965,500 [OGCC Report of Investigation RI-4]. Text and sheet **\$3.00**

OG-26—Arizona Well Information, by J.R. Scurlock, 1973, 28 p. [supplement to Bulletin 185; OGCC Report of Investigation RI-5]. **\$4.50**

OG-27—Thermal Gradient Anomalies, Southern Arizona, by Salvatore Giardina, Jr., and J.N. Conley, 1978, 49 p., scale 1:1,382,400 and 1:1,322,300, 3 sheets [OGCC Report of Investigation RI-6]. Text and sheets **\$4.50**

OG-28—Favorable and Potentially Favorable Areas for Hydrocarbon and Geothermal Energy Sources in Northeastern Arizona, by J.N. Conley and Salvatore Giardina, Jr., 1979, 56 p., various scales, 10 sheets [OGCC Report of Investigation RI-7, photocopy & blue-line only]. Text and sheets **\$7.00**

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OG-34—The Oil Possibilities of Arizona, by D.A. Holm, 1938, 58 p. [OGCC Reprint] **\$6.25**

OG-35—Oil and Natural Gas Occurrence in Arizona, by S.L. Rauzi, updated annually, chart [OGCC Chart C-1]. Free download at azogcc.az.gov

SPECIAL PAPERS (SP)

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CONTRIBUTED REPORTS (CR)

The Contributed Report series was created in January 1989 to house contributions by non-AZGS geologists. These reports represent substantial contributions to the geologic literature on Arizona. Prior to 1989, reports of this nature were published in the AZGS Open-File Report series; a series now restricted to the work of AZGS geoscientists.

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- CR-89-B**—The Carrizo “Gold” Mine, by W.L. Chenoweth, 1989, 26 p. **\$4.50**
- CR-89-C**—The Geology and Production History of Uranium Deposits in the Salt Wash Member of the Morrison Formation, Near Rough Rock, Apache County, Arizona, by W.L. Chenoweth, 1989, 7 p. **\$1.50**
- CR-89-D**—Maps of the Underground Workings, Monument No. 2 Mine, Apache County, Arizona, by C.C. Gregg and C.S. Evensen, with a text by W.L. Chenoweth, 1989, 35 p. **\$6.25**
- CR-89-E**—Geologic Map of the Underground Workings of the Harve Black No. 2 Mine, Navajo County, Arizona, by Robert Ciesiel and I.B. Gray, with a text by W.L. Chenoweth, 1989, 7 p., 1 sheet with several maps at various scales. Text and sheet **\$4.50**
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- CR-03-B**—Subsurface Geologic Investigation of Fountain Hills and the Lower Verde River Valley, Maricopa County, Arizona, by S.J. Skotnicki, E. M. Young, T.C. Goode, and G. L. Bushner, 2003, 43 p. **\$12.00**
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- CR-05-B**—A CO₂-Silica Geothermometer for Low Temperature Geothermal Resource Assessment, with Application to Resources in the Safford Basin, Arizona [originally prepared November 1983], by J.C. Witcher and Claudia Stone, 2005, 154 p. **\$34.00**
- CR-06-A**—K-Ar Dates of Fault Rocks Along the Catalina Detachment Fault, Tanque Verde Ridge, Rincon Mountains, Arizona, v. 1.0, by P.E. Damon and Muhammad Shafiqullah, 2006, 17 p. **\$5.50**
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- CR-07-B**—Geology of the Bloody Basin: Central Arizona's Transition Zone, by Gwyn Rhys-Evans, 2007, 1 –CD-ROM, **\$15.00**
- CR-07-C**—Land Subsidence and Earth Fissures in Arizona: Research and Informational Needs for Effective Management, by Arizona Land Subsidence Group, 2007, p 21. Free online at www.azgs.az.gov
- CR-07-C, S**—One color map, scale 1:24,000. **\$15.00**
- CR-08-A**—The Geology of the Safford-San Carlos Area, Graham and Gila Counties, east-central Arizona, by Peter A. Mock (Ph. D. & Arizona Registered Geologist #21614), 2008, 1- CD-ROM **\$15.00**
- CR-08-B**—Extent of Uranium Mineralization in the Guindani Canyon Area of the central Whetstone Mountains, Cochise County, Arizona, by R.M. Corn, 2008, 22 p, free online at www.azgs.az.gov
- CR-08-C**—Conglomerate Clast Counts in Oligocene-Miocene Strata north from the Catalina Core Complex to the Gila River Valley, southeastern Arizona, by W.R. Dickinson, 2008, free online at www.azgs.az.gov

OPEN-FILE REPORTS (OFR)

In the late 20th century, State and Federal agencies commonly migrated to an open-file report venue as a means for rapidly disseminating information to the public. The AZGS established its own open-file series in 1973. This series includes the following: (1) preliminary releases of new AZGS research results; (2) preliminary versions of reports and maps being prepared for formal publication; (3) final reports of externally funded projects; and (4) geologic maps and reports that would not otherwise be published. Many of these reports have not been edited or reviewed for conformity with AZGS standards. OFRs are not formally published, but are photocopied upon request. Prior to 1989, the Open-File forum was used by both AZGS and non-AZGS geoscientists, since January 1989 the work of non-AZGS geoscientists is published in our "Contributed Reports" series.

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- OFR-74-1**—Outcrop and Surficial Geology, Flagstaff Area, Coconino County, Arizona, by E.L. Montgomery, W.R. Henkle, Jr., W.J. Alexander, K.S. Murray, R.E. Reid, C.F. Kluth, and R.H. DeWitt, 1974, scale 1:24,000. **\$2.50**
- OFR-74-2**—Arizona Bureau of Mines Annual Report 1973-1974, by W.H. Drescher, 1974, 5 p. **\$1.25**
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- OFR-78-5**—Potential Geothermal Energy in Arizona, by W.R. Hahman, Sr., D.H. White, and David Wolf, 1978, 147 p. **\$18.50**
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- OFR-79-4**—GSA Field Trip Guide to Coal Deposits of Black Mesa and Geologic Road Log Between Phoenix and Page, Arizona, by H.W. Peirce, G.G. Dahl, Jr., and M.W. Peirce, 1979, 45 p., scale 1:2,500,000 [includes Map 14]. Text and sheet **\$8.25**
- OFR-79-5**—Proven, Potential, and Inferred Geothermal Resources of Arizona and Their Heat Contents, by J.C. Witcher, 1979, 64 p., scale 1:1,000,000. Text and sheet **\$13.00**
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- OFR-05-01**—Field Guide to the Overlooks of Fish Creek Canyon, Superstition Mountains, Pinal County, Arizona, by C.A. Ferguson, 2005, 16 p. **\$5.00**
- OFR-06-01-A**—A Geologist's Guide to the Core Complex Geology Along the Catalina Highway, Tucson Area, Arizona, v. 1.1, by J.E. Spencer, 2006, 38 p. **\$9.50**
- OFR-06-02**—Surficial Geology and Fire in Southeastern Arizona Grasslands - Effects on Soil Geochemistry in Semiarid Ecosystems, Fort Huachuca Military Reservation, Arizona, by T.H. Biggs, P.A. Pearthree, L.N. Florkowski, and P.-J.L. Shaner, 2006, 50 p., 1 CD-ROM **\$17.00**
- OFR-07-01**—Earth Fissure Mapping Program: 2006 Progress Report, Geological Hazards and Limitations of Earth Fissures by Counties, by M. Lee Allison and T. Shipman, 2007, 25p, scale 1:250,000, 4 sheets [1 Pinal County; 2 Maricopa County; 3 Cochise County; 4 Pima County]. Text and Sheets **\$20.00**
- OFR-07-01,S**—Each Sheet, **\$4.00ea**
- OFR-07-01,T**—Text only (25p) **\$6.00**
- OFR-07-02**—Geochemical fingerprint of a Plio-Pleistocene tephra in California Wash in the Benson area, San Pedro Valley, southeastern Arizona by Ann Youberg and Jon E. Spencer, 2007, 13 p **\$4.00**
- OFR-08-01**—A Workshop on the Role of State Geological Surveys and U.S. Geological Survey in a Geological Information System for the Nation, by M.L. Allison and T.L. Dickinson, 2008, 22 p., free online at www.azgs.az.gov
- OFR-08-02**—Earth Fissure Mapping Program: 2007 Progress Report, by M.L. Allison and T.C. Shipman, 2008, 19 p., free online at www.azgs.az.gov
- OFR-08-03**—Arizona's Earth Fissure Mapping Program: Protocols, Procedures and Products, by T.C. Shipman and M. Diaz, 2008, free online at www.azgs.az.gov .
- OFR-08-05**—Geology and Geological Hazards Field Trip of Sabino Canyon: Results of the July 2006 Storms, by A. Youberg and J.P. Cook, 2008, 13p., available online at www.azgs.az.gov

OFR-08-06—Geologic Mapping of Debris-Flow Deposits in the Santa Catalina Mountains, Pima County, Arizona, by A. Youberg, M.L. Cline, J.P. Cook, P.A. Pearthree and R.H. Webb, 2008, 42 p, with 11 sheets (1:6000 scale) on accompanying CD-ROM **\$20.00**

Individual Printed Sheets of OFR-08-06 (Scale 1:6000) by Ann Youberg, Michael L. Cline, Joseph P. Cook and Philip A. Pearthree

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OFR-08-08—Delineating Post-Wildfire Debris Flow Hazards for Pre-Fire Mitigation, Pine and Strawberry, Arizona: a FEMA 5% Initiative Study, by A. Youberg, 2008, 36 p. **\$9.00**

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The Arizona Geological Society (AGS), a professional nonprofit organization, publishes technical reports and maps on Arizona's regional geology and mineral resources. Publications listed below may be purchased from the AZGS bookstore.

AGS-3—Southern Arizona Guidebook III, edited by S.R. Titley, 1968, 354 p. Available in photocopy quality only. **\$12.00**

AGS-7—Arizona Geological Society Digest, 1964, v. 7, 171 p. **\$5.00**

AGS-9—Arizona Geological Society Digest, 1971, v. 9, 265 p. **\$5.00**

AGS-10—Tectonic Digest, edited by J.C. Wilt and J.P. Jenney, 1976, v. 10, 430 p. **\$14.00**

AGS-13—Arizona Geological Society Digest, 1981, v. 13, 215 p., 2 sheets, scale 1:1,000,000. **\$12.00**

AGS-14—Relations of Tectonics to Ore Deposits in the Southern Cordillera, edited by W.R. Dickinson and W.D. Payne, 1981, Digest, v. 14, 288 p. **\$17.00**

AGS-15—Gold and Silver Deposits of the Basin and Range Province, Western U.S.A., edited by Joe Wilkins, Jr., 1984, Digest, v. 15, 233 p. **\$17.00**

AGS-16—Frontiers in Geology and Ore Deposits of Arizona and the Southwest, edited by Barbara Beatty and P.A.K. Wilkinson, 1986, Digest, v. 16, 554 p. **\$20.00**

AGS-17—Geologic Evolution of Arizona, edited by J.P. Jenney and S.J. Reynolds, 1989, Digest, v. 17, 866 p., scale 1:1,000,000 [includes AZGS Map 26]. **\$60.00**

AGS-18—Mesozoic Rocks of Southern Arizona and Adjacent Areas, edited by W.R. Dickinson and M.A. Klute, 1987, Digest, v. 18, 394 p. **\$17.00**

AGS-19—Proterozoic Geology and Ore Deposits of Arizona, edited by K.E. Karlstrom, 1991, Digest, v. 19, 332 p. **\$25.00**

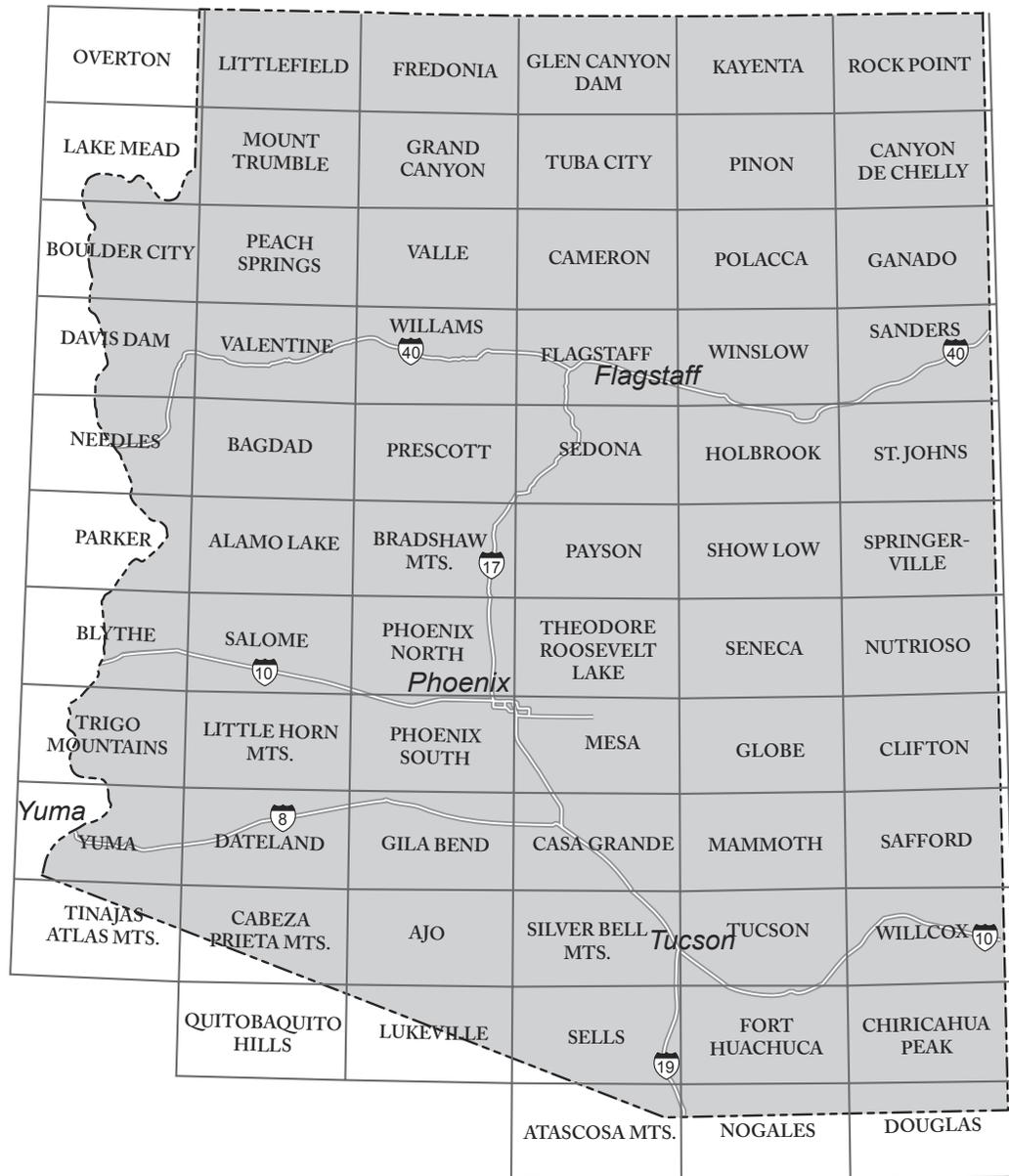
36 AGS / OTHER NON-AZGS PUBS

- AGS-20**—Porphyry Copper Deposits of the American Cordillera, edited by F.W. Pierce and J.G. Bolm, 1995, Digest, v. 20, 656 p. **\$60.00**
- AGS-21**—Desert Heat – Volcanic Fire, The Geologic History of the Tucson Mountains and Southern Arizona, by D.A. Kring, 2002, Digest, v. 21, 103 p. **\$16.00**
- ### OTHER NON-AZGS PUBLICATIONS (NP)
- Selected publications on Arizona geology from the Grand Canyon Association, the American Geological Institution, and other groups and organizations.
- NP-5**—Carboniferous Stratigraphy in the Grand Canyon, Northern Arizona and Southern Nevada, edited by S.S. Beus and R.R. Rawson, 1979, 138 p. [Field-Trip Guidebook No. 13 for the 9th International Congress of Carboniferous Stratigraphy and Geology, Urbana, Ill., 1979, published by the American Geological Institute as AGI Selected Guidebook Series No. 2] **\$5.00**
- NP-12**—Mineralogy of Arizona, by J.W. Anthony, S.A. Williams, R.A. Bideaux, and R.W. Grant, 1995, 508 p. **\$35.00**
- NP-13**—Residual Aeromagnetic Map of Arizona, by W.A. Sauck and J.S. Sumner, 1970, scale 1:1,000,000. **\$10.00**
- NP-14**—Depth-to-Bedrock Map, Basin and Range Province, Arizona, by J.M. Oppenheimer and J.S. Sumner, 1980, scale 1:1,000,000, superseded by **DGM-52**. **\$10.00**
- NP-15**—Residual Bouguer Gravity Anomaly Map of Arizona (ISGN 71), by J.C. Lysonski, J.S. Sumner, Carlos Aiken, and J.S. Schmidt, 1980, scale 1:1,000,000. **\$10.00**
- NP-20**—Arizona Atlas & Gazetteer, by DELORME, 1999, 76 p. **\$19.95**
- NP-22**—Geologic Map of the Eastern Part of the Grand Canyon National Park, Arizona, by Grand Canyon Association, 1996, scale 1:62,500. **\$12.00**
- NP-23**—Geology and Mineral Resources of the Santa Catalina Mountains, SE Arizona: a Cross-sectional Approach, by Eric Force, 1997, 135 p., 2 sheets scale 1:48,000 and 1:12,000. Text and sheets. **\$49.50**
- NP-24**—Tucson, 1984, Satellite Image Map, by J.C. Dohrenwend, 1998, scale 1:100,000. **\$12.00**
- NP-27**—Mineral Resources of Arizona: A Field Guide for Collectors, by N.R. Bearce, 1999, 187 p. **\$19.00**
- NP-28**—Southeast Arizona Satellite Image Map, by J.C. Dohrenwend, 2000, scale 1:170,000. **\$12.00**
- NP-29**—Organ Pipe Cactus and surrounding areas Satellite Image Map, by J.C. Dohrenwend, 2000, scale 1:100,000. **\$12.00**
- NP-30**—Petrified Forest National Park Satellite Image Map, by J.C. Dohrenwend, 2000, scale 1:100,000. **\$12.00**
- NP-31**—National Geographic Seamless USGS Topographic Maps on CD-ROM for Arizona, by National Geographic, 2000. **\$99.95**
- NP-32**—Grand Canyon National Park Satellite Image Map, by J.C. Dohrenwend, 2001, scale 1:250,000. **\$12.00**
- NP-33**—Flagstaff Satellite Image Map, by J.C. Dohrenwend, scale 1:100,000. **\$12.00**
- NP-37**—Santa Catalina Mountains Satellite Image Map, by J. C. Dohrenwend, 2002, scale 1:63,360. **\$15.00**
- NP38**—Minerals, Fossils and Fluorescents of Arizona: A Field Guide for Collectors, by Neil R. Bearce, 2006, 401 p. **\$30.00**
- NP39-(D49)**—Directory of Active Mines in Arizona 2001-2 by K. Phillips, N. Niemuth, and D. Bain, The listings are alphabetical, giving company name, address, key personnel, mine name, and location. A separate listing of sand and gravel operations is provided. Includes 1:1,000,000 scale map showing the locations of the active mines, and mine offices. 2002, 31 p. **\$6.00**
- NP40-(D50)**—Directory of Arizona Mining Consultants by N. Niemuth, Contact information and description of services are provided for Arizona residents registered in the following mining related disciplines: assayers, geological engineers, geologists, geophysical engineers, metallurgical and mining engineers. 2004, 21 p. **\$3.00**
- NP41-(SR1)**—Uranium Prospector's Guide by K.A. Phillips & M.N. Greeley, A guide for the independent prospector searching for occurrences of uranium. Chapters on mineralogy and geology of uranium and prospecting methods. 1979, 34 p. **\$6.00**
- NP42-(SR12)**—Laws and Regulations Governing Mineral Rights in Arizona by V.H. Verity and L.D. Clark. 9th Edition, A lay language interpretation of federal and state laws applicable to mineral rights within Arizona. Includes discussions and forms for locating (staking) and maintaining claims on both public domain and State-owned lands. 1988, updated 1998, 91 p. **\$8.00**
(Mining Claim forms only are contained in Circular 90)
- NP43-(MR3)**—Molybdenum Occurrences in Arizona by C.J. Hicks, Occurrences are listed by county with a brief description of each. The mineralogy, geology, uses and history of molybdenum are provided. 1979, 37 p. **\$6.00**

- NP44-(MR4)**—Arizona Industrial Minerals by K.A. Phillips, Covers 1400 known Arizona industrial mineral occurrences. The commodities included are mica, silica-quartz, specialty sand, pumice, limestone, salt, dolomite, clay, zeolites, fluorspar, feldspar, wollastonite, strontium, and others. Includes location tables and maps. 1987, 185 p. **\$12.00**
- NP45-(MR6)**—**BERYL**—A Unique Opportunity for the Prospector and Small Mine Operator by K.A. Phillips,. Describes the mineral beryl, prospecting techniques and its amenability to production by small mine operators. 1986, 7 p. **\$2.00**
- NP46-(MR7)**—Gold Panning in Arizona by D. Bain, Includes the origin of placer gold in Arizona, prospecting tips, panning instructions, and maps to panning locations. 1990, 30 p. **\$3.00**
- NP47-(OFR91-8)**—Pumice and Pumicite in Arizona by J.M. Hoffer, Describes over 50 pumice occurrences in Arizona. Includes deposit map, scale 1:1,000,000. 1991, 67 p. **\$10.00**
- NP48-(OFR92-10)**—Copper Oxide Resources by N.J. Niemuth and K. A. Phillips, A listing of over 800 Arizona deposits that contain copper oxide. 1992, 18 p. **\$5.00**
- NP49-(OFR93-12)**—Economic Geology of the Sierra Estrella, Maricopa and Pinal Counties, Arizona by E. B. Melchiorre, Includes site descriptions of metallic and nonmetallic resources. 1993, 29 p. **\$2.50**
- NP50-(OFR01-17)**—Arizona Copper Reserves DMMR (Information is periodically updated) Reserve and ownership information for over 75 major copper properties. 85 p. **\$10.00**
- NP51-(OFR02-20)**—Arizona Mining Scams and Unassayable Ore Projects of the Late 20th Century by W. Scott Donaldson, 2002, 28 p. **\$3.00**
- NP52-(M84-1)**—Arizona Mineral Potential Map by K. A. Phillips and others, Map showing areas favorable for future discovery and development of mineral deposits for land use planning considerations. Scale 1:1,000,000-Blackline, 1984 **\$3.00**
- NP53-(MM-17)**—Metallogenic Provinces of Arizona by P.F. O'Hara, N. J. Niemuth, and G. Ryberg, Preliminary edition showing 49 metallogenic provinces in Arizona. Scale 1:1,000,000-Blackline, 1989 **\$3.00**
- NP54-(MA-49)**—Active Mines in Arizona - 2001-2 by K. Phillips, N. Niemuth, and D. Bain, Shows the locations of the active mines (except sand and gravel operations), plants and mine offices. Scale 1:1,000,000, 2002, (Map is included with purchase of Directory of Active Mines.) **\$3.00**
- NP56**—Gold Placer Map by M. Johnson, Map showing location of placer gold deposits in Arizona. Reprint of USGS Bulletin 1355, Plate 1. Scale 1:1,000,000-Blackline, 1970 **\$2.50**
- NP57**—AzMILS on Disk The complete AzMILS database is available as dBase files on CD-ROM disc. The databases can be sorted on any field or combination of fields, including commodities. Bibliographies include reference information on individual mines. Latitude and longitude is included for each occurrence for GPS use. **\$20.00**
- NP98**—(D51) Directory of Active Mines, by N.J. Niemuth, D.R. Bain, and F.S. Kimbler Cartographer and GIS Services by S.A. Eastman, , listings are alphabetical, giving company name, address, key personnel, mine name, and location. A separate listing of sand and gravel operations is provided. Includes 1:1,000,000 scale map showing the locations of the active mines, and mine offices, 2007. **\$20.00**

U.S. GEOLOGICAL SURVEY MAPS AND PUBLICATIONS

Complete coverage of the State is available for sale from the AZGS office.
Index map for 1:100,000 scale 30' x 60' Quadrangles shown below.



- Topographic maps for Arizona at various scales:
 1:24,000 (7.5' quadrangles) \$6.85 (Call for free index map.)
 1:100,000 (30' x 60' USGS and BLM land/mineral status) \$7.00
 1:250,000 (1 x 2 degree) \$7.00
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Books and thematic maps: Selected USGS books and thematic maps for Arizona and the United States in general (Professional Papers, Bullitins, Circulars, Water-Supply Papers, General Interest Publications, Geologic Quadrangle (GQ) Maps, Miscellaneous Investigation Series (I) Maps, and Miscellaneous Field Studies (MF) Maps). Please call the Arizona Geological Survey for selection and price.

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KEY TO ABBREVIATIONS

AGS	Arizona Geological Society Publication	GI	Geologic Investigation Folio
B	Bulletin	M	Map
C	Circular	MM	Miscellaneous Map
CM	Contributed Map	NP	Non-AZGS Publication
CR	Contributed Report	OFR	Open-File Report
DI	Digital Information Series	OG	Oil and Gas Publication
DGM	Digital Geologic Map	P	Poster & Post Card
DTE	Down-to-Earth Series	SP	Special Paper

BIBLIOGRAPHIES

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Arizona Bureau of Geology and Mineral Technology Publications OFR-89-6
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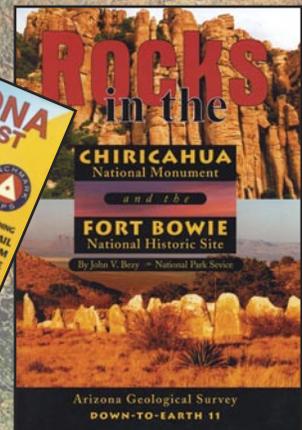
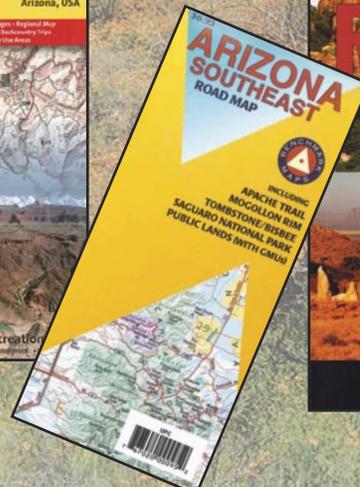
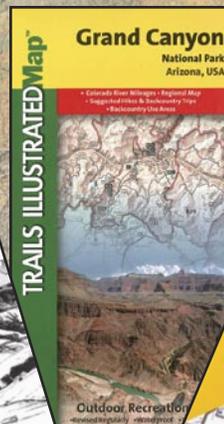
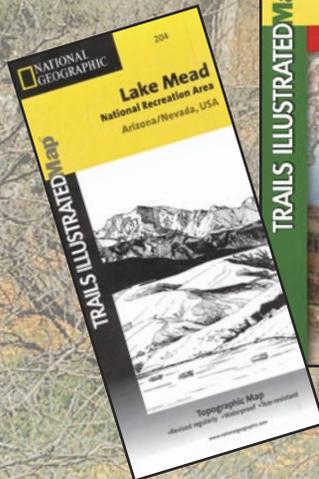
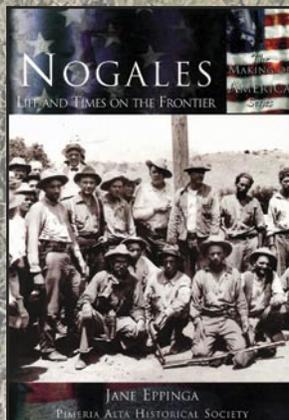
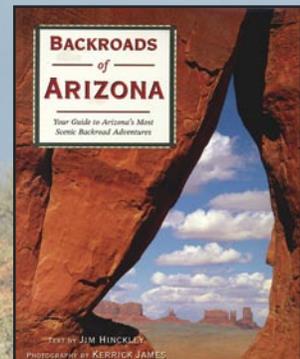
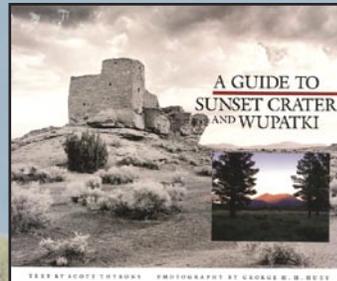
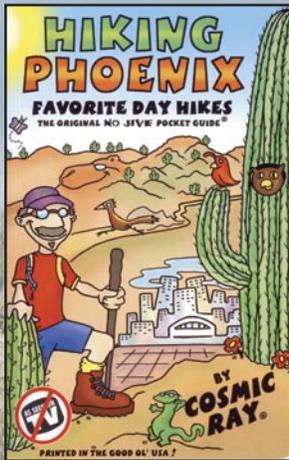
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