

Cumulative Bibliography and Index to *The Mountain Geologist*, 1964 through 2009

By Michele G. Bishop

The Mountain Geologist was first published in 1964 by the Rocky Mountain Association of Geologists. This Cumulative Bibliography and Index records the entire publication history from 1964 through 2009. This Bibliography will be updated every year.

Hardcopies of some issues of *The Mountain Geologist* are available for sale from the RMAG website <www.rmag.org/publications/index.asp>. Digital copies of *The Mountain Geologist* issues from 1964 through 2005 are available for sale at the RMAG office (www.rmag.org). The October 1985 Volume 22 Number 4 issue of *The Mountain Geologist* is available for download from <www.rmag.org/publications/index.asp>. The RMAG will issue digital collections of *The Mountain Geologist* every 5 years.

Contents

Part I Author Index	page 2
Part II Geographical Index.....	page 65
Part III Topical Index.....	page 79

The first cumulative bibliography for *The Mountain Geologist* was prepared by John W. Oty and published in the January 1975 issue. It covered Volumes 1 to 11 (1964-1974) and was largely geographic in its categorization of papers. In 1992 Stephen D. Schwochow published a cumulative bibliography and index of *The Mountain Geologist* for the years 1975 through 1991 (see *The Mountain Geologist*, v. 29, no. 4, pages 101-130). He then published yearly indices from 1992 through 1995 in *The Mountain Geologist*. In 1999, Mary P. (Penny) Frush assembled and published these indices and added the additional years with guidance from the format that Stephen Schwochow outlined (see *The Mountain Geologist*, v. 36, no. 1, p. 1-56). The Cumulative Bibliography and Index was brought up to date in 200, and again in 2010, by Michele G. Bishop. Many additional people have given guidance or proofed various updates and their time and ideas are very much appreciated. This version was reviewed by Ira Pasternack, Mark Longmen, Joy Rosen-Mioduchowski, Jeanette Dubois, and Kristine Peterson.

Part I—Author Index

- Abplanalp, J. M., Isaacson, P. E., Batt, L. S., and Pope, M. C., 2009, Conodont Biostratigraphy of Chesterian Strata (Late Mississippian-Early Pennsylvanian), East-Central Idaho and Southwestern Montana: v. 46, no. 3 (July), p. 89-104, 9 figs.
- Abplanalp, Jason M., see Isaacson and others, 2007.
- Adams, John, and Patton, Jean, 1979, Sebkha-dune deposition in the Lyons Formation (Permian), northern Front Range, Colorado: v. 16, no. 2 (April), p. 47-57, 7 figs., 1 table.
- Adams, S. L., see Paylor and others, 1989.
- Ahlbrandt, T. S., 1975, Comparison of textures and structures to distinguish eolian environments, Killpecker Dune Field, Wyoming: v. 12, no. 2 (April), p. 61-73, 16 figs.
- Ahlbrandt, T. S., Gautier, D. L., and Bader, T. A., 1994, Low-angle eolian deposits in coastal settings-Significant Rocky Mountain exploration targets: v. 31, no. 4 (October), p. 95-114, 12 figs., 1 table.
- Ahlbrandt, T. S., and Groen, Wilson, 1987, The Goshen Hole Uplift-A brief review of its geologic history and exploration potential: v. 24, no. 2 (April), p. 34-44, 7 figs.
- Ahlbrandt, T. S. and Fox, James E., 1997, Middle Jurassic incised valley fill (eolian/estuarine) and nearshore marine petroleum reservoirs, Powder River Basin: v. 34, no. 3 (July), p. 97-115, 14 figs.
- Allen, J. L., see Thomas and others, 1996.
- Allison, Marvin D., 1966, Physical stratigraphy, Middle Ordovician Harding and Lander Sandstones, Wyoming: v. 3, no. 3 (July), p. 115-124, 7 figs.
- Al-Raisi, Muatasam H., Slatt, Roger M., and Decker, Michael K., 1996, Structural and stratigraphic compartmentalization of the Terry Sandstone and effects on reservoir fluid distributions: Latham bar trend, Denver Basin: Colorado: v. 33, no. 1 (January), p. 11-30, 17 figs., 2 tables.
- Al-Siyabi, H. A., see Slatt and others, 1995.
- Alther, G. R., 1977, Geohydrologic setting of the environment near Cotter Mill, Canon City, Colorado: v. 14, no. 2 (April), p. 69-73, 2 figs., 1 table.
- Amini, M. H., see Larson and Amini, 1981.
- Amsbury, David L., 1967, Summary of oil development in the Reno area, Johnson County, Wyoming, v. 4, no. 1 (January), p. 3-7, 3 figs.
- Andersen, D. W., see Kirschbaum and others, 1994.
- Anderson, Donna S., 2005, Architecture of Crevasse Splay and Point-Bar Bodies of the Nonmarine Iles Formation North of Rangely, Colorado: Implications for Reservoir Description: v. 42, no. 3 (July), p. 109-122, 8 figs., 2 tables.

- Anderson, Donna S., see Longman and Johnson eds., 1999.
- Anderson, Greg P., 2006, Geologic Study of Powder Wash Field, Moffat County, Colorado: v. 43, no. 2 (April), p. 135-144, 8 figs.
- Anderson, Orin J., see Lucas and others, 2001.
- Anderson, S. B., see Gerhard and Anderson, 1979.
- Anderson, Thomas B., 1970, Cambrian and Ordovician stratigraphy of the southern Mosquito Range, Colorado: v. 7, no. 1 (January), p. 51-64, 4 figs.
- Andersson, Steen, see Basu and others, 1998.
- Archuleta, Bonny J., Pope, Michael C., Isaacson, Peter E., Tremblay, Matthew L., and Webster, Gary D., 2006, Pennsylvanian Cycles in East-Central Idaho: A Record of Sea-Level Fluctuations on the Western Margin of Laurentia: v. 43, no. 2 (April), p. 93-114, 10 figs., 1 table.
- Armbrustmacher, T. J., Brownfield, I. K., and Osmonson, L. M., 1979, Multiple carbonatite dike at McClyre Gulch, Wet Mountains alkalic province, Fremont County, Colorado: v. 16, no. 2 (April), p. 37-45, 7 figs., 2 tables.
- Armstrong, E. F., see Egbert and Armstrong, 1970.
- Armstrong, Frank C., and Oriel, Steven S., 1965, Tectonic development of Idaho-Wyoming Thrust Belt (Abstract): v. 2, no. 1 (January), p. 45-46.
- Atwater, Gordon I., 1966, The effect of decrease in porosity with depth on oil and gas reserves in sandstone reservoirs (Abstract): v. 3, no. 2 (April), p. 97.
- Axen, G. J., 1989, Reinterpretations of the relations between the Keystone, Red Spring, Contact, and Cottonwood faults, eastern Spring Mountains, Clark County, Nevada-Discussion: v. 26, no. 3 (July), p. 69-70, 2 figs.
- Azevedo, P. A., see Thomas and others, 1996.
- Baars, D. L., 1991, The Elephant Canyon Formation, for the last time-Discussion: v. 28, no. 1 (January), p. 1-2.
- Baars, D. L., and Campbell, J. A., 1968, Devonian system of Colorado, northern New Mexico and the Colorado Plateau: v. 5, no. 1 (January), p. 31-40, 4 figs., 1 table.
- Baars, D. L., and Stevenson, G. M., 1984, The San Luis Uplift, Colorado and New Mexico-An enigma of the Ancestral Rockies: v. 21, no. 2 (April), p. 57-67, 8 figs.
- Bader, T. A., see Ahlbrandt and others, 1994.
- Baesemann, J. F., see Verville and others, 1990.
- Bailey, R. V., 1972, Review of uranium deposits in the Great Divide Basin, Crooks Gap area, Wyoming: v. 9, no. 2-3 (April-July), p. 165-182, 15 figs., 8 tables.
- Bailey, R. V., see De Voto and others, 1972.

- Baker, Victor R., 1973, Paleosol development in Quaternary alluvium near Golden, Colorado: v. 10, no. 4 (October), p.127-133, 6 figs., 2 tables.
- Baldwin, R. J., see Kirschbaum and others, 1994.
- Bardwell, George E., 1966, Some statistical features of the relationship between Rocky Mountain Arsenal waste disposal and frequency of earthquakes: v. 3, no. 1 (January), p. 37-42, 2 figs., 4 tables.
- Barkmann, Peter E., 2004, Vertical Hydraulic Conductivity Measurements in the Denver Basin, Colorado: v. 41, no. 4 (October), p. 169-183, 7 figs., 4 tables.
- Barlow, L. K., 1986, An integrated geochemical and paleoecological approach to petroleum source rock evaluation, lower Niobrara Formation (Cretaceous), Lyons, Colorado: v. 23, no. 4 (October), p. 107-112, 7 figs., 1 table.
- Barnum, B. E., see Robinson and Barnum, 1986.
- Barrett, Fred, see Natali and others, 2000.
- Barrie, K. A., see Hansen and others, 1980a, 1980b, 1980c; Kirk and others, 1981a, 1981b, 1982, 1983a, 1983b, 1984.
- Barros, J. A., see Johnson and others, 1991, 1992.
- Bartleson, B. L., and Jensen, J. A., 1988, The oldest (?) Morrison Formation dinosaur, Gunnison, Colorado: v. 25, no. 3 (July), p. 129-139, 9 figs.
- Bartos, Paul J., 2009, Computer (SEDPACK) Modeling of the Late Cambrian Dotsero Formation, Central Colorado: Sequence Stratigraphy Applied to a Cratonic Sequence: v. 46, no. 4 (October), p. 149-158, 3 figs, 2 tables.
- Basse, Robert, see Longman and others, 2003.
- Basu, Abhijit, Molinaroli, Emanuela, and Andersson, Steen, 1998, Diversity of physical and chemical properties of detrital zircons and garnets in Cenozoic sediments of southwestern Montana: v. 35, no. 1 (January), p. 23-29, 5 figs., 2 tables.
- Bateman, William D., see Itano and Bateman, 2001; Itano and others, 2003.
- Batt, Liselle S., see Abpianaip and others, 2009; Isaacson and others, 2007.
- Baugh, Ronald A., see Hawkins and Baugh, 2006.
- Beach, Steven T., see Caine and others, 2006.
- Beaver, K. W., see Emmett and others, 1972.
- Beck, Lawrence D., 1969, Petrologic investigation of the plutonic and related rocks of Comanche Peak area, Colorado: v. 6, no. 4 (October), p. 199-220, 2 tables, 13 plates.
- Beebee, R. A., and Cox, Ronadh, 1998, Dynamics of marine transgression onto a non-linear shoreline: The Middle Cambrian Flathead Sandstone, Clarks Fork Valley, Wyoming: v. 35, no. 3 (July), p. 91-101, 9 figs.

- Bell, T. E., see Woodward and Bell, 1995.
- Benedetto, K. M., see Schalla and Benedetto, 1991.
- Benson, D. G., see Scott and others, 2004.
- Bereskin, S. Robert, see Morgan and Bereskin, 2003; Milner and others, 2005.
- Berg, R. R., 1976, Hilight Muddy Field-Lower Cretaceous transgressive deposits in the Powder River Basin, Wyoming: v. 13, no. 2 (April), p. 33-45, 14 figs., 1 table.
- Berg, R. R., see Spang and others, 1985.
- Bergh, S. G., and Snoke, A. W., 1992, Polyphase Laramide deformation in the Shirley Mountains, south-central Wyoming foreland: v. 29, no. 3 (July), p. 85-100, 12 figs., 1 table.
- Bernier, Julie C., and Chan, Marjorie A., 2006, Sedimentology, Depositional Environments, and Paleoecological Context of an Early Late Jurassic Sauropod, Tidwell Member, Upper Jurassic Morrison Formation, East-Central Utah: v. 43, no. 4 (October), p. 313-332, 14 figs., 1 table.
- Berry, Frederick A. F., 1967, Advances and future problems of the geology of petroleum, 1951-1966: v. 4, no. 3 (July), p. 95-98.
- Bibler, C. J., and Schmitt, J. G., 1986, Barrier-island coastline deposition and paleogeographic implications of the Upper Cretaceous Horsethief Formation, northern Disturbed Belt, Montana: v. 23, no. 4 (October), p. 113-127, 20 figs., 2 tables.
- Billingsley, G. H., see Sorauf and Billingsley, 1991.
- Bird, Allan G., see Downs and Bird, 1965.
- Bird, William H., 1972, Mineral deposits of the southern portion of the Platoro Caldera complex, southeast San Juan Mountains, Colorado: v. 9, no. 4 (October), p. 379-387, 4 figs., 3 tables.
- Birdseye, R. U., see Tucker and Birdseye, 1989.
- Birmingham, Thomas J., 2006, Wattenberg Field: A Giant in Our Own Backyard: v. 43, no. 3 (July), p. 243-246, 4 figs.
- Bishop, M. G., see Winn and others, 1983.
- Bitter, M. R., 1986, Origin of phosphatic nodules and cements in the Upper Cretaceous Frontier Formation, Natrona County, Wyoming: v. 23, no. 2 (April), p. 45-50, 5 figs., 1 table.
- Blackstone, D. L., Jr., 1984, Quealy Dome, Albany County, Wyoming-A Rocky Mountain foreland structural trap oil field: v. 21, no. 3 (July), p. 85-90, 6 figs., 1 table.
- Blackstone, D. L., Jr., 1986, Quealy Dome, Albany County, Wyoming--a Rocky Mountain foreland structural trap oil field-Reply: v. 23, no. 3 (July), p. 92-93, 4 figs.

- Blackstone, D. L., Jr., 1989, Spread Creek Anticline-Teton County, Wyoming, a study in structural form and petroleum exploration: v. 26, no. 2 (April), p. 43-51, 7 figs., 1 table.
- Blackstone, D. L., Jr., 1994, Oil Springs and Flat Top anticlines, Carbon County, Wyoming: v. 31, no. 2 (April), p. 53-60, 9 figs., 1 table.
- Blakey, R. C., 1973, Stratigraphy and origin of the Moenkopi Formation (Triassic) of southeastern Utah: v. 10, no. 1 (January), p. 1-17, 20 figs.
- Blanton, T. L., III, 1975, Fountain Creek flexure and basement deformation in the Manitou spur, Colorado: v. 12, no. 4 (October), p. 119-126, 11 figs.
- Blizzard, T. R., see De Voto and others, 1972.
- Blood, W. A., 1970, Upper portion of the Fountain Formation and Lyons Formation at Morrison, Colorado: v. 7, no. 1 (January), p. 33-48, 11 figs.
- Blundell, J. S., and Marrs, R. W., 1991, Precambrian control of Laramide faulting, Sheep Ridge Anticline, western Owl Creek Mountains, Wyoming, *in* Lang, H.R., Chadwick, O.A., and Paylor, E.D., II, eds., Report on the Second Workshop on Geologic Applications of Remote Sensing to the Study of Sedimentary Basins: v. 28, nos. 2&3 (April/July), p. 83-89, 5 figs.
- Boardman, S. J., 1976, Geology of the Precambrian metamorphic rocks of the Salida area, Chaffee County, Colorado: v. 13, no. 3 (July), p. 89-100, 11 figs., 3 tables.
- Bohacs, Kevin M., Grabowski, George, Jr., and Carroll, Alan R., 2007, Lithofacies Architecture and Variation in Expression of Sequence Stratigraphy within Representative Intervals of the Green River Formation, Greater Green River Basin, Wyoming: v. 44, no. 2 (April), p. 39-60, 13 figs.
- Bohacs, Kevin M., Hasiotis, Stephen T., and Demko, Timothy M., 2007, Continental Ichnofossils of the Green River and Wasatch Formations, Eocene, Wyoming: A Preliminary Survey, Proposed Relation to Lake-Basin Type, and Application to Integrated Paleo-Environmental Interpretation: v. 44, no. 2 (April), p. 79-108, 19 figs., 4 tables.
- Bolyard, Dudley W., Chronic, John, Requist, Norris N., Wolf, Robert C., and Loucks, Gerald G., 1968, Second day's road log—Study of Paleozoic and Mesozoic section along Front Range from west of Pueblo, through the Colorado Springs area and north through Palmer Lake, Perry Park and ending at Castle Rock: v. 5, no. 3 (July), p. 165-177, 8 figs.
- Bolyard, Dudley W., see Johnson and Bolyard, 1969; Johnson and others, 1969.
- Boos, C. M., and Nance, J. W., 1970, Supplementary road log, Plainview section: v. 7, no. 3 (July), p. 251-252.
- Boos, C. M., Nance, J. W., Raymond, Lon, and Reid, Fred, 1970, First day's road log-Denver to Palmer Lake to Canon City: v. 7, no. 3 (July), p. 218-227, 5 figs.
- Borer, J. M., see Slatt and others, 1995.

- Bornhorst, Theodore J., see Taylor and Bornhorst, 1998.
- Bortz, L. C., see Veal and others, 1988; Parker and Bortz, 2001.
- Bostick, N. H., see Law and others, 1980.
- Braddock, W. A., and Peterman, Z. E., 1989, The age of the Iron Dike-A distinctive Middle Proterozoic intrusion in the northern Front Range of Colorado: v. 26, no. 4 (October), p. 97-99, 3 figs., 1 table.
- Brady, Michael J., and Ward, William C., 1974, Carbonate facies of the northeastern Yucatan Shelf, Mexico: v. 11, no. 1 (January), p. 41-42, 1 fig.
- Brady, Michael J., see also McCubbin and Brady, 1969.
- Brand, Leonard R., 2007, Lacustrine Deposition in the Bridger Formation: Lake Gosiute Extended: v. 44, no. 2 (April), p. 69-78, 7 figs.
- Breithaupt, Brent H., see Matthews and Breithaupt, 2001.
- Breyer, J. A., 1983, Sandstone petrology-A survey for the exploration and production geologist: v. 20, no. 1 (January), p. 15-39, 2 figs., 16 tables.
- Bridges, L. W. D., and McCarthy, Kevin, 1990, Tertiary subsurface solution in the Mississippian Leadville Limestone geothermal aquifer of Colorado: v. 27, no. 2 (April), p. 57-67, 9 figs.
- Brister, B. S., and Chapin, C. E., 1994, Sedimentation and tectonics of the Laramide San Juan Sag, southwestern Colorado: v. 31, no. 1 (January), p. 2-18, 11 figs., 1 table.
- Brookins, D. G., 1982, Uranium and thorium abundances, whole rock chemistry, and trace element chemistry, Zuni Mountains, New Mexico: v. 19, no. 3 (July), p. 83-90, 4 figs., 3 tables.
- Brookins, D. G., Della Valle, R. S., and Lee, M. J., 1978, Rb-Sr geochronologic investigation of Precambrian silicic rocks from the Zuni Mountains, New Mexico: v. 15, no. 2 (April), p. 67-71, 3 figs., 1 table.
- Broughton, Paul L., 1973, Economic geology of gold-silver distribution in the Snare Group sediments (Proterozoic) at Norris Lake, Northwest Territories: v. 10, no. 2 (April), p. 45-51, 3 figs., 1 table, 1 appendix.
- Brown, J. L., see Hansley and Brown, 1993.
- Brown, W. G., 1984, A reverse fault interpretation of Rattlesnake Mountain Anticline, Big Horn Basin, Wyoming: v. 21, no. 2 (April), p. 31-35, 5 figs.
- Brownfield, I. K., see Armbrustmacher and others, 1979.
- Buchheim, H. Paul, see Leggitt and others, 2007.
- Buck, B. J., see Thomas and others, 1996.
- Budahn, James R., see Kirkham and others, 2001.
- Bullock, Jim, see Hall and Bullock, 1970.

- Burchfiel, B. C., see Mueller and others, 1979.
- Burger, Benjamin John, 2007, A New Late Paleocene Vertebrate Fauna from the Ohio Creek Formation of Western Colorado: v. 44, no. 3 (July), p. 141-150, 7 figs., 1 table.
- Bush, Corlann Gee, see Bush and Bush, 1974.
- Bush, John H., and Bush, Corlann Gee, 1974, Revisions in Cambrian nomenclature in central Colorado: v. 11, no. 2 (April), p. 59-69, 5 figs., 3 tables.
- Butler, D. R., 1983, Observations of historic high magnitude mass movements, Glacier National Park, Montana: v. 20, no. 2 (April), p. 59-61, 3 figs.
- Butts, Susan H., see Isaacson and others, 2007.
- Byers, C. W., see Macdonald and Byers, 1988.
- Byrd, W. J., see Hansen and others, 1980a, 1980b, 1980c; Kirk and others, 1981a, 1981b.
- Byrnes, Alan P., 1997, Reservoir characteristics of low-permeability sandstones in the Rocky Mountains, *in* Curtis, J. B., ed., A special volume: Gas reservoirs in the Rocky Mountains: v. 34, no. 1 (January), p. 39-48, 10 figs., 1 table.
- Cabral-Cano, Enrique, see Johnson and others, 1991, 1992.
- Caine, Jonathan Saul, Nelson, Eric P., Beach, Steven T., and Layer, Paul W., 2006, Structural Fabrics, Mineralization, and Laramide Kinematics of the Idaho Springs-Ralston Shear Zone, Colorado Mineral Belt and Central Front Range Uplift: v.43, no. 1 (January), p. 1-24, 11 figs., 3 tables, 1 appendix.
- Caldaro-Baird, Julia L., see Kovach and others, 2003.
- Caldes, Brice A., 2005, Attribute Variation within Fluvial Sand Bodies of the Iles Formation East of Rangely, Colorado: v. 42, no. 3 (July), p. 123-139, 9 figs., 4 tables.
- Calkin, W. S., Tweto, O. L., Epis, R. C., and Scott, G. R., 1972, AAPG field trip 3: Structure and ore deposits of central Colorado—Denver to Climax, Leadville, Buena Vista, Hartsel, Florissant, Divide, Cripple Creek, Colorado Springs, Denver: v. 9, nos. 2-3 (April/July), p. 189-206, 2 figs., 1 table.
- Camilleri, P. A., 1992, Extensional geometry of a part of the northwestern flank of the northern Grant Range, Nevada—Inferences on its evolution: v. 29, no. 3 (July), p. 75-84, 10 figs.
- Camilleri, Phyllis A., 2000, Metamorphic “klippen” in the Diamond Mountains, Nevada, and the Implications for Mesozoic Shortening and Cenozoic Extension: v. 37, no. 2 (April), p. 59-72, 7 figs.
- Camp, Beth Ann, see Stamm and others, 2004.
- Campa, M. F., see Monod and others, 1992.

- Campbell, Ian A., 1966, Stream profiles and pediments near Boulder, Colorado: v. 3, no. 4 (October), p. 171-179, 3 figs., 1 table.
- Campbell, John A., 1970, Petrology of Devonian shelf carbonates of west central Colorado: v. 7, no. 2 (April), p. 89-97, 11 figs., 1 table.
- Campbell, John A., see also Baars and Campbell, 1968; Tyler and Campbell, 1975.
- Cardinal, D. F., 1970, Lower Cretaceous stratigraphy and its relationship to oil production in the Laramie Basin: v. 7, no. 3 (July), p. 123-138, 10 figs.
- Carlson, Kendall P., 1967, South Keg Coulee Field, Musselshell County, Montana, v. 4, no. 3 (July), p. 91-94, 3 figs.
- Carlton, Dennis R., 2006, Discovery and Development of a Giant Coalbed Methane Resource, Raton Basin, Las Animas County, Southeast Colorado: v. 43, no. 3 (July), p. 231-236, 3 figs.
- Carpenter, Kenneth, see Lockley and others, 1983.
- Carr, D. L., 1985, Depositional trends in Upper Paleozoic terrigenous clastic rocks, Sacramento Mountains, New Mexico: v. 22, no. 1 (January), p. 17-27, 10 figs.
- Carr, J. D., see Kaplan and others, 1983.
- Carroll, Alan R., see Rhodes and others, 2007; Bohacs and others, 2007.
- Carroll, Christopher J., 2009, The Coal Geology and Mining Resources of the Boulder-Weld Coal Field: v. 46, no. 1 (January), p. 13-26, 7 figs., 1 table.
- Catanzaro, E. J., 1967, Correlation of some Precambrian rocks and metamorphic events in parts of Wyoming and Montana: v. 4, no. 1 (January), p. 9-21, 1 fig., 7 tables.
- Cavanaugh, E. T., see Merewether and others, 1979.
- Cebull, S. E., see D'Lugosz and Cebull, 1972.
- Cepeda, J. C., 1994, Fracture orientation and distribution on the Kaibab Plateau of northern Arizona: v. 31, no. 3 (July), p. 77-83, 10 figs.
- Chadwick, O. A., see Lang, Chadwick, and Paylor, 1991; Nettleton and Chadwick, 1991.
- Chan, Marjorie, see Bernier and Chan, 2006; Ochs and Chan, 1990.
- Chancellor, Robert E., 1964, Falcon Field - An example of wildcat exploration techniques in the Denver Basin, Colorado: v. 1, no. 4 (October), p. 197-202, 4 figs.
- Chancellor, Robert E., 1967, Economic analysis of Cretaceous oil exploration, Denver Basin, Colorado and Nebraska: v. 4, no. 1 (January), p. 23-34, 2 figs., 2 tables.
- Chapin, Charles E. and Epis, R. C., 1964, Some stratigraphic and structural features of the Thirtynine Mile volcanic field, central Colorado: v. 1, no. 3 (July), p. 145-160, 4 plates.
- Chapin, C. E., see also Brister and Chapin, 1994.
- Charpentier, R. R., see Schmoker and others, 1996.

- Chase, Ronald B., see Clarey and others, 1998, 2004; Gerhard and Chase, 1970.
- Chatfield, John, 1965, Petroleum geology of the greater Red Wash area, Uintah County, Utah: v. 2, no. 3 (July), p. 115-121, 5 figs.
- Chen, Zi-Qiang, and Lubin, Susan, 1997, A fission-track study of the terrigenous sedimentary sequences of the Morrison and Cloverly Formations in the northeastern Bighorn Basin, Wyoming: v. 34, no. 2 (April), p. 51-62, 5 figs., 2 tables.
- Cheney, E. S., see Vredenburg and Cheney, 1970.
- Chenoweth, W. L., 1978, Uranium in western Colorado: v. 15, no. 3 (July), p. 89-96, 3 figs., 4 tables.
- Childers, Milton O., 1974, Uranium occurrences in Upper Cretaceous and Tertiary strata of Wyoming and northern Colorado: v. 11, no. 4 (October), p. 131-147, 10 figs.
- Chleborad, A. F., see Nichols, T.C., Jr., and others, 1987.
- Chronic, John, 1964, Geology of the southern Mosquito Range, Colorado: v. 1, no. 3 (July), p. 103-113, 5 figs.
- Chronic, John, see Bolyard and others, 1968; Murray and others, 1968.
- Cicimurri, David, 2000, Early Cretaceous Elasmobranchs from the Newcastle Sandstone (Albian) of Crook County, Wyoming: v. 37, no. 3 (July), p. 101-107, 2.6 figs.
- Cicimurri, David, 2001, Fossil Selachians from the Belle Fourche Shale (Cretaceous, Cenomanian), Black Hills Region of South Dakota and Wyoming: v. 38, no. 4 (October), p. 181-192, 5 figs.
- Cicimurri, David J., 2004, Late Cretaceous Chondrichthyans from the Carlile Shale (Middle Turonian to Early Coniacian) of the Black Hills Region, South Dakota and Wyoming: v. 41, no. 1 (January), p. 1-16, 5 figs., 1 table.
- Clair, Joseph R., and Volk, Richard W., 1968, Pre-Permian Paleozoic rocks of the Las Animas Arch - A new oil province: v. 5, no. 3 (July), p. 95-108, 12 figs.
- Clarey, T. L., 1990, Thin-skinned shortening geometries of the South Fork Fault-Big Horn Basin, Park County, Wyoming: v. 27, no. 1 (January), p. 19-26, 5 figs.
- Clarey, Timothy L., Chase, Ronald B., and Schmidt, Christopher J., 2004, Precambrian Influences on the Development of the Royal Gorge Arch, Colorado: A Thick-Skinned Fault-Propagation Fold: v. 41, no. 1 (January), p. 17-32, 9 figs.
- Clarey, Timothy L., Krishnamurthy, R. V., and Chase, Ronald B., 1998, Environmental isotopic investigation of ground-water movement and surface-water interactions, Royal Gorge Arch, Colorado: v. 35, no. 4 (October), p.127-135, 6 figs., 1 table.
- Clarke, Robert T., 1965, Fungal spores from Vermejo Formation coal beds (Upper Cretaceous) of central Colorado: v. 2, no. 2 (April), p. 85-93, 1 fig., 1 table, 1 plate.
- Clark, Scott M., see Longman and Johnson, eds., 1999.
- Clayton, J. L., see Swetland and others, 1978.

- Clement, James H., and Dolton, Gordon L., 1970, A chronicle of exploration in South Park Basin, Park County, Colorado: v. 7, no. 3 (July), p. 205-216, 4 figs.
- Coalson, E. B., and Inden, R. F., 1990, Geology and oil production of the Ervay (Phosphoria) reservoirs, eastern Big Horn Basin, Wyoming: v. 27, no. 3 (July), p. 77-98, 23 figs.
- Cobban, W. A., see Kauffman and others, 1977; Merewether and others, 1979.
- Cole, G. A., see Sholes and Cole, 1981.
- Cole, Rex D., and Cumella, Stephen P., 2005, Sand-Body Architecture in the Lower Williams Fork Formation (Upper Cretaceous), Coal Canyon, Colorado, with Comparison to the Piceance Basin Subsurface: v. 42, no. 3 (July), p. 85-107, 16 figs., 2 tables.
- Collins, D. B., and Collins, D. S., 1984, A Colorado-Wyoming border diatreme and a possible potential kimberlite indicator plant: v. 21, no. 2 (April), p. 68-71, 1 fig.
- Collins, D. S., 1987, A preliminary report on the bentonite beds of the lower Virgin Creek Member of the Pierre Shale, Stanley County, South Dakota: v. 24, no. 3 (July), p. 81-85, 3 figs.
- Collins, D. S., and Nichols, T. C., Jr., 1987, Comparing geotechnical to geologic estimates for past overburden in the Pierre-Hayes, South Dakota, area-An argument for in-situ pressuremeter determination: v. 24, no. 2 (April), p. 51-54, 3 figs.
- Collins, D. S., see Collins and Collins, 1984; Nichols, T.C., Jr., and others, 1987.
- Collins, Stanley H., 1971, Powder Wash Field, Moffat County, Colorado: v. 8, no. 4 (October), p. 199-203, 2 figs., 1 table.
- Colorado Department of Health, Water Pollution Control Commission, 1971, Rules and regulations for subsurface disposal systems: v. 8, no. 1 (January), p. 31-37.
- Colorado Oil and Gas Conservation Commission, 1971, Rules and regulations, rules of practice and procedure, and Oil and Gas Conservation Act: Addition effective August 1, 1971: v. 8, no. 3 (July), p. 155-161.
- Condon, Steven M., see Kirschbaum and others, 2009.
- Conel, J. E., see Paylor and others, 1989.
- Conley, Curtis D., 1964, Mesaverde Formation at Chromo Anticline, Archuleta County, Colorado: v. 1, no. 1 (January), p. 15-24, 7 figs., 1 table.
- Conley, Curtis D., 1965, Petrology of the Leadville Limestone (Mississippian), White River Plateau, Colorado (Abstract): v. 2, no. 3 (July), p. 181-182.
- Constenius, Kurt, 1988, Structural configuration of the Kishenehn Basin delineated by geophysical methods, northwestern Montana and southeastern British Columbia: v. 25, no. 1 (January), p. 13-28, 14 figs.

- Cooperrider, Mark, and Heinrich, E.W., 1978, An unusual granite-amphibolite hybrid, Twin Mountain, Fremont County, Colorado: v. 15, no. 4 (October), p. 125-132, 10 figs., 2 tables.
- Corbett, Marshall K., 1966, The geology and structure of the Mt. Richthofen-Iron Mt. region, north central Colorado: v. 3, no. 1 (January), p. 3-21, 9 figs., 2 plates.
- Corner, H. J., see Thomas and others, 1996.
- Correa, Aderbal Caetano, 1970, Borrego Pass lentil, a new member of the Crevasse Canyon Formation, southern San Juan Basin, New Mexico: v. 7, no. 2 (April), p. 99-102, 1 fig., 1 table.
- Coughlan, Patrick, and Steidtmann, J.R., 1984, Depositional environmental and diagenesis of the Teapot Sandstone, southern Powder River Basin, Wyoming: v. 21, no. 3 (July), p. 91-103, 19 figs.
- Covington, George, 1966, Stratigraphy and sedimentary structures in the Fox Hills Sandstone (Upper Cretaceous), Golden area, Colorado: v. 3, no. 4 (October), p. 161-169, 7 figs., 1 table.
- Cox, Ronadh, see Beebee and Cox, 1998.
- Crifasi, R. R., 1992, Alluvial architecture of Laramide orogenic sediments, Denver Basin, Colorado: v. 29, no. 1 (January), p. 19-27, 10 figs., 1 table.
- Cronoble, James M., 1969, Geothermal gradients and their application to petroleum geology: v. 6, no. 1 (January), p. 27-39, 9 figs., 1 table.
- Cronoble, James M., 1974, Biotic constituents and origin of facies in Capitan Reef, New Mexico and Texas: v. 11, no. 3 (July), p. 95-108, 3 figs., 18 plates.
- Cross, Aureal T, 1964, Palynology and its relation to the exploration for oil (Abstract): v. 1, no. 2 (April), p. 91.
- Crossey, Laura J., see Larsen and others, 2000.
- Culbertson, William C., 1964, Oil shale resources and stratigraphy of the Green River Formation in Wyoming (Abstract): v. 1, no. 3 (July), p. 181, 1 table.
- Culbertson, William C., 1972, Oil shale in the Green River Formation, Green River Basin, Wyoming: v. 9, no. 2-3 (April-July), p. 183-187, 3 figs.
- Culbertson, W. C., see De Voto and others, 1972.
- Cumella, Stephen P., see Cole and Cumella, 2005.
- Cumella, Stephen P., 2006, Overview of a Giant Basin-Centered Gas Accumulation, Mesaverde Group, Piceance Basin, Colorado: v. 43, no. 3 (July), p. 219-224, 4 figs.
- Curtis, J. B., 1994, Rocky Mountain natural gas resources-A Potential Gas Committee perspective: v. 31, no. 2 (April), p. 37-44, 9 figs.

- Curtis, John B., 1997, Natural gas resources of the Rocky Mountains and considerations for future supply, *in* Curtis, J. B., ed., A special volume: Gas reservoirs in the Rocky Mountains: v. 34, no. 1 (January), p. 3-6, 3 figs.
- Cushman, Robert A., see Leggitt and others, 2007.
- Cuzella, Jerome J., and Stancel, Steven G., 2006, Greater Natural Buttes Field, Uinta Basin, Utah: v. 43, no. 3 (July), p. 213-218, 3 figs., 2 tables.
- Dallegge, Todd A., 2008, $^{40}\text{Ar}/^{39}\text{Ar}$ Geochronology of Lavas from the Central Plateau Member of Plateau Rhyolite with Implications for Magma Residence Times and Eruptive Reoccurrence Intervals, Yellowstone National Park: v. 45, no. 3 (July), p. 77-98, 6 figs., 3 tables, 1 appendix.
- Dallegge, Todd A., Ort, Michael H., and McIntosh, William C., 2003, Mio-Pliocene Chronostratigraphy, Basin Morphology and Paleodrainage Relations Derived from the Bidahochi Formation, Hopi and Navajo Nations, Northeastern Arizona: v. 40, no. 3 (July), p. 55-82, 6 figs, 3 tables, 1 appendix.
- Dalrymple, G. B., see M'Gonigle and Dalrymple, 1993; M'Gonigle and others, 1995.
- Davies, D. K., see Reinert and Davies, 1976.
- Davis, R. L., 1985, Seismic evidence of tectonic influence on development of Cretaceous listric normal faults, Boulder-Wattenberg-Greeley area, Denver Basin, Colorado: v. 22, no. 2 (April), p. 47-54, 15 figs.
- Davis, Thomas L., 2005, 4-D Seismic Monitoring of a Fractured Reservoir, Weyburn Field, Saskatchewan: v. 42, no. 2 (April), p. 45-52, 8 figs.
- DeFrates, Joshua, see King and others, 2009.
- De Voto, Richard H., 1964, Stratigraphy and structure of Tertiary rocks in southwestern South Park: v. 1, no. 3 (July), p. 117-126, 5 figs.
- De Voto, Richard H., 1965, Pennsylvanian and Permian stratigraphy of central Colorado: v. 2, no. 4 (October), p. 209-228, 7 figs., 2 tables.
- De Voto, Richard H., 1972, Cenozoic geologic history of South Park: v. 9, no. 2-3 (April-July), p. 211-221, 9 figs.
- De Voto, R. H., and Larsen, R. T., 1972, AAPG field trip 2: First afternoon—Denver to Laramie: v. 9, nos. 2-3 (April/July), p. 79-85, 2 figs.
- De Voto, R. H., Land, C. B., Blazzard, T. R., Larsen, R. T., Culbertson, W. C., Dyni, J. R., and Bailey, R. V., 1972, AAPG field trip 2: Tertiary and Cretaceous energy resources of the southern Rocky Mountains: v. 9, nos. 2-3 (April/July), p. 79.
- De Voto, R. H., and Maslyn, R.M., 1977, Sedimentology and diagenesis of the Leadville Formation and controls of lead-zinc-silver deposits, central Colorado (abs.): v. 14, no. 1 (January), p. 27-28.
- De Voto, Richard H., see also Murray and others, 1968.
- Dea, Peter, see Natali and others, 2000.

- Dean, Karen, 1987, Mississippian Ratcliffe and Nesson reservoirs, Rosebud Field, Williams County, North Dakota: v. 24, no. 4 (October), p. 95-106, 8 figs., 1 table.
- Decker, Michael K., see Al-Raisi and others, 1996.
- Della Valle, R. S., see Brookins and others, 1978.
- Demko, Timothy M., see Bohacs and others, 2007.
- Dickinson, K. A., 1981, Geologic controls of mineralization in the Tallahassee Creek uranium district, Fremont County, Colorado: v. 18, no. 4 (October), p. 88-94, 4 figs.
- Dinterman, Phillip A., see Mack and Dinterman, 2002.
- D'Lugosz, J. J., and Cebull, S. E., 1972, Intraformational folds near Holman Hill, New Mexico: Another interpretation: v. 9, no. 4 (October), p. 389-392, 2 figs.
- Dockal, James A., 2005, Sandstone "Dikes" within the Arapaho Pass Fault, Indian Peaks Wilderness, Boulder and Grand Counties, Colorado: v. 42, no. 4 (October), p. 143-158, 8 figs.
- Dodd, J. R., see Thomas and others, 1996.
- Doeringsfeld, Walter W., Jr., and Ivey, John B., 1964, Use of photogeology and geomorphic criteria to locate subsurface structure: v. 1, no. 4 (October), p. 183-195, 24 figs.
- Doll, Tom, see Stenberg and Doll, 2006.
- Dolson, John, Piombino, Joe, Franklin, Mark, and Harwood, Robert, 1993, Devonian oil in Mississippian and Mesozoic reservoirs-Unconformity controls on migration and accumulation, Sweetgrass Arch, Montana: v. 30, no. 4 (October), p. 125-146, 21 figs., 1 table.
- Dolton, Gordon L., see Clement and Dolton, 1970.
- Donnell, John R., 1965, Geology and oil-shale resources of the Green River Formation: v. 2, no. 3 (July), p. 95-100, 5 figs.
- Donnell, John R., see Pitman and others, 1972.
- Dorobek, S.L., see Smith and Dorobek, 1989.
- Douglas, Bruce J., see Elliott and others, 2003.
- Dow, R. L., 1986, *The Mountain Geologist* cumulative index, 1975-1985: v. 23, no. 1 (January), p. 26-36.
- Dow, R. L., 1988, Manipulation of the integrated data base-A case study of the East Anschutz Ranch Field: v. 25, no. 2 (April), p. 39-46, 10 figs.
- Dow, Robin, see Kirk and others, 1981a, 1981b, 1982, 1983a.
- Downs, George R. and Bird, Allan G., 1965, The Schwartzwalder uranium mine, Jefferson County, Colorado: v. 2, no. 4 (October), p. 183-191, 4 figs.

- Dubiel, Russell F., 2007, Sequence Stratigraphy Applied to the Oil and Gas Assessment of the Lewis Shale Total Petroleum System, San Juan Basin, Colorado and New Mexico: v. 44, no. 4 (October), p. 155-173, 7 figs.
- Dubiel, R. F., Good, S.C., and Parrish, J.M., 1989, Sedimentology and paleontology of the Upper Triassic Chinle Formation, Bedrock, Colorado: v. 26, no. 4 (October), p. 113-126, 10 figs., 1 table.
- DuBois, Dean P., 1996, Eldorado Springs Member of the Skull Creek Shale in the Denver Basin, Colorado: v. 33, no. 3 (July), p. 85-93, 8 figs., 1 appendix.
- DuBois, Dean P., Nishida, Debra K., Fisher, Aaron J., and House, Nancy J., 2006, Jonah Field, Sublette County, Wyoming: Where Has It Been and Where Is It Going?: v. 43, no. 3 (July), p. 187-194, 3 figs.
- Duey, H. D., see Veal and others, 1988.
- Dunbar, R. W., see Keighin and others, 1993.
- Dyman, T. S., Perry, W. J., Jr., and Nichols, D. J., 1988, Stratigraphy, petrology, and provenance of the Albian Blackleaf Formation and the Cenomanian to Turonian lower part of the Frontier Formation in parts of Beaverhead and Madison Counties, Montana: v. 25, no. 3 (July), p. 113-128, 8 figs., 3 tables.
- Dyman, T. S., and Tysdal, R. G., 1998, Stratigraphy and depositional environment of nonmarine facies of Frontier Formation, eastern Pioneer Mountains, southwestern Montana: v. 35, no. 3 (July), p. 115-125, 7 figs.
- Dyman, T.S., see Tysdal and others, 1989.
- Dyni, John R., 1969, Structure of the Green River Formation, northern part of the Piceance Creek Basin, Colorado: v. 6, no. 2 (April), p. 57-66, 3 figs.
- Dyni, John R., and Goodwin, J. C., 1972, AAPG field trip 2: Third day—Vernal, Utah, to Rio Blanco, Colorado: v. 9, nos. 2-3 (April/July), p. 115-134, 14 figs.
- Dyni, J. R., see De Voto and others, 1972.
- Eaton, J. G., 1990, Stratigraphic revision of Campanian (Upper Cretaceous) rocks in the Henry Basin, Utah: v. 27, no. 1 (January), p. 27-38, 11 figs.
- Eaton, J. G., Kirkland, J. I., and Kauffman, E. G., 1990, Evidence and dating of Mid-Cretaceous tectonic activity in the San Rafael Swell, Emery County, Utah: v. 27, no. 2 (April), p. 39-45, 5 figs., 2 tables.
- Ecker, George D., Jr., 1971, Peoria Field, Arapahoe County, Colorado: v. 8, no. 3 (July), p. 141-150, 7 figs.
- Edmisten, Neil, see Foster and others, 1968.
- Edwards, Duncan L., see Loudon and others, 2000.
- Edwards, Paul, 1976, Fossil sharks (Pisces, Selachii) from the Codell Sandstone, Pueblo County, Colorado: v. 13, no. 2 (April), p. 67-70, 2 figs., 1 table.

- Egbert, R. L., and Armstrong, E. F., 1970, The use of computer prepared residual maps as an aid in determining sedimentary environments of the Muddy Formation, northeastern Wyoming: v. 7, no. 4 (October), p. 253-268, 14 figs.
- Egbert, R. L., 1990, A paleoclimate classification system with U.S. Western Interior examples: v. 27, no. 3 (July), p. 99-106, 4 figs., 1 table.
- Eggler, David H., 1967, Gravity survey of the Livermore-Tie Siding area, Colorado-Wyoming: v. 4, no. 3 (July), p. 109-114, 5 figs., 1 table.
- Eicher, D. L., 1977, Stratigraphic distribution of Cretaceous foraminifera, Rock Canyon Anticline, *in* Kauffman, E. G., ed., Cretaceous facies, faunas, and paleoenvironments across the Western Interior basin—field guide: v. 14, nos. 3&4 (July-October), p. 153-154, 1 fig.
- Eicher, D. L., see Kauffman and others, 1977.
- Elliott, David K, see Webster and Elliott, 2004.
- Elliott, William S, Jr., Douglas, Bruce J., and Suttner, Lee, 2003, Structural Control on Quaternary and Tertiary Sedimentation in the Harrison Basin, Madison County, Montana: v. 40, no. 1 (January), p. 1-18, 13 figs, 1 table.
- Ellis, C. Howard, 1966, Paleontologic age of the Fountain Formation south of Denver, Colorado: v. 3, no. 4 (October), p. 155-160, 2 figs., 1 table.
- Emmendorfer, A., 1989, Fracture orientation-Use of the dipmeter type fracture log: v. 26, no. 2 (April), p. 63-67, 6 figs.
- Emmett, W. R., Beaver, K. W., and McCaleb, J. A., 1972, Pennsylvanian Tensleep Reservoir, Little Buffalo Basin oil field, Big Horn Basin, Wyoming: v. 9, no. 1 (January), p. 21-31, 14 figs.
- Engard, Donna J., see Kurtz and others, 2001.
- Enterline, Ted, see LeGrand and others, 2006.
- Epis, R. C., see Chapin and Epis, 1964; Calkin and others, 1972.
- Erpenbeck, M. F., see Flores and Erpenbeck, 1981.
- Erslev, E. A., 1985, Balanced cross sections of small fold-thrust structures-Comment: v. 22, no. 3 (July), p. 91-93, 4 figs.
- Erslev, Eric A., 2007, Testing Laramide Hypotheses for the Front Range Arch Using Minor Faults: Reply: v. 44, no. 1 (January), p. 38.
- Erslev, Eric A., and Larson, Scott M., 2006, Testing Laramide Hypotheses for the Colorado Front Range Arch Using Minor Faults: v. 43, no. 1 (January), p. 45-64, 8 figs., 1 table.
- Estes-Jackson, Jane E., Shewmake, Daniel W., Siguaw, Steven G., 2000, Changes in Attitudes, Changes in Attributes: Using 3-D Seismic to Identify New Opportunities in Old Fields—Riverton Dome Field, Wyoming: v. 37, no. 1 (January), p 33-45, 12 figs, 2 tables.

- Ethridge, F. G., see Graham and Ethridge, 1995.
- Ettinger, Morris, 1964, Geology of the Hartsel Area, South Park, Park County, Colorado: v. 1, no. 3 (July), p. 127-132, 2 figs.
- Evans, David M., 1966, The Denver area earthquakes and the Rocky Mountain Arsenal disposal well: v. 3, no. 1 (January), p. 23-36, 8 figs., 1 table.
- Evans, J. P., see Spang and others, 1985.
- Evans, James E., 2002, Reinterpretation of Unconformities in the Hermosa Formation near Coal Bank Pass, San Juan Mountains, SW Colorado: v. 39, no. 1 (January), p. 1-15, 10 figs., 1 table.
- Evans, James E., and Reed, Jason M., 2006, Pennsylvanian Fluvial Cave Sediments in the Mississippian Leadville Limestone, Southwestern Colorado, U.S.A.: v. 43, no. 4 (October), p. 283-297, 6 figs., 1 table.
- Everett, Brent C., and Hoisch, Thomas D., 2008, Conditions of Metamorphism of the Colorado Yule Marble: v. 45, no. 3 (July), p. 69-76, 4 figs., 2 tables.
- Evetts, M. J., 1976, Microfossil biostratigraphy of the Sage Breaks Shale (Upper Cretaceous) in northeastern Wyoming: v. 13, no. 4 (October), p. 115-134, 4 figs., 10 plates.
- Evetts, M. J., 1979, Upper Cretaceous sharks from the Black Hills region, Wyoming and South Dakota: v. 16, no. 2 (April), p. 59-66, 2 figs, 1 plate.
- Evetts, M. J., see Scott and others, 2004.
- Fassett, James E., 2006, The San Juan Basin: A Complex Giant Gas Field, New Mexico and Colorado: v. 43, no. 3 (July), p. 225-230, 4 figs.
- Faure, G., see Fenton and Faure, 1970 a, 1970b, 1971.
- Faure, M., see Monod and others, 1992.
- Fenton, M. D., and Faure, G., 1970a, Rb-Sr whole rock age determinations of the Iron Hill and McClure Mountain carbonatite-alkalic complexes, Colorado: v. 7, no. 4 (October), p. 269-275, 4 figs., 4 tables.
- Fenton, M. D., and Faure, G., 1970b, A Rb-Sr whole-rock age determination for the Rainy Creek alkalic-ultramafic complex, Montana: v. 7, no. 4 (October), p. 277-280, 2 figs., 2 tables.
- Fenton, M. D., and Faure, G., 1971, The age of the Iron Hill complex of Colorado—Reply: v. 8, no. 4 (October), p. 223.
- Feray, Dan E., 1965, The role of tectonic and environmental factors in the origin and distribution of sediments (Abstract): v. 2, no. 1 (January), p. 47.
- Finn, Thomas M., see Roberts and others, 2004.

- Fischer, W.A., 1978, The habitat of the early vertebrates - Trace and body fossil evidence from the Harding Formation (Middle Ordovician), Colorado: v. 15, no. 1 (January), p. 126, 11 figs., 9 plates.
- Fisher, Aaron J., see DuBois and others, 2006.
- Flanigan, D. M. H., 1988, Kate Spring Field discovery, Nevada Basin and Range: v. 25, no. 4 (October), p. 159-169, 6 figs.
- Flemings, P. B., and Nelson, S. N., 1991, Paleogeographic evolution of the latest Cretaceous and Paleocene Wind River Basin, *in* Lang, H.R., Chadwick, O.A., and Paylor, E. D., II, eds., Report on the second workshop on geologic applications of remote sensing to the study of sedimentary basins: v. 28, nos. 2&3 (April/July), p. 37-52, 15 figs.
- Flores, R. M., 1978, Barrier and back-barrier environments of deposition of the Upper Cretaceous Almond Formation, Rock Springs Uplift, Wyoming: v. 15, no. 2 (April), p. 57-65, 12 figs., 1 table.
- Flores, R. M., and Erpenbeck, M. F., 1981, Differentiation of delta-front and barrier lithofacies of the Upper Cretaceous Pictured Cliffs Sandstone, southwest San Juan Basin, New Mexico: v. 18, no. 2 (April), p. 23-34, 19 figs.
- Flores, R. M., and Tur, S. M., 1982, Characteristics of deltaic deposits in the Cretaceous Pierre Shale, Trinidad Sandstone, and Vermejo Formation, Raton Basin, Colorado: v. 19, no. 2 (April), p. 25-40, 18 figs.
- Flores, Romeo M., see Nichols and Flores, 2006.
- Foster, J. R., 1994, A note on depositional environments of the Lower-Middle Cambrian Cadiz Formation, Marble Mountains, California: v. 31, no. 1 (January), p. 29-36, 9 figs.
- Foster, Norman H., McEachin, W. D., Edmisten, Neil, and Murray, D. K., 1968, Type and typical stratigraphic sections of Colorado—Part F: Mississippian: v. 5, no. 3 (July), p. 115-126, 4 figs.
- Foster, N. H., see Veal and others, 1988.
- Fouch, T. D., see Schmoker and others, 1996.
- Fouts, James A., see Salotti and Fouts, 1964.
- Fox, J. E., see Gillespie and Fox, 1991; Schenk and others, 1993; Ahlbrandt and Fox, 1997.
- Franklin, Mark, see Dolson and others, 1993.
- Frerichs, W. E., see Lang and others, 1991.
- Frey, R. W., and Howard, J. D., 1982, Trace fossils from the Upper Cretaceous of the Western Interior—Potential criteria for facies models: v. 19, no. 1 (January), p. 1-10, 4 figs., 1 table.
- Frischia, A. R., see Townsend and others, 2006.

- Frush, Mary P., 1999, Cumulative Bibliography and Index to *The Mountain Geologist*, 1964 through 1998: v.36, no. 1 (January), p. 1-56.
- Fryberger, S. G., 1979, Eolian-fluviatile (continental) origin of ancient stratigraphic trap for petroleum in Weber Sandstone, Rangely oil field, Colorado: v. 16, no. 1 (January), p. 1-36, 20 figs., 2 tables, 4 plates.
- Gagnon, Paul, see Young and others, 2006.
- Garbarini, George S., 1964, Cedar Valley and Canal fields, Scotts Bluff County, Nebraska: v. 1, no. 2 (April), p. 47-53, 4 figs., 1 table.
- Garner, Gary L., 1997, Seismic and subsurface evidence of local sedimentary infill of massive salt solution "micro-basins" in the Middle Jurassic Carmel Formation, central Utah: v. 34, no. 2 (April), p. 63-72, 9 figs.
- Gary, Samuel, and McGregor, A. A., 1968, Exploration philosophy behind the Bell Creek oil field discovery, Powder River County, Montana: v. 5, no. 1 (January), p. 15-21, 4 figs.
- Gates, W. C. B., and Rahn, P. H., 1986, Ancient quartzite boulders in the Red Valley area of the northern Black Hills, South Dakota and Wyoming: v. 23, no. 3 (July), p. 95-97, 4 figs.
- Gautier, D. L., see Ahlbrandt and others, 1994.
- Gay, S. Parker Jr., 1999, An Explanation for "4-Way Closure" of Thrust-Fold Structures in the Rocky Mountains, and Implications for Similar Structures elsewhere: v. 36, no. 4, (October), p. 235-244, 11 figs.
- Geiser, J., Geiser, P.A., Kligfield, Roy, Ratliff, R., and Rowan, M., 1988, New applications of computer-based section construction—Strain analysis, local balancing, and subsurface fault prediction: v. 25, no. 2 (April), p. 47-59, 15 figs.
- Geiser, P. A., see Geiser and others, 1988.
- Gerhard, Lee C., and Wahlstedt, Warren J., 1965, Milsap Creek fault block: A gravitational structure: v. 2, no. 4 (October), p. 203-208, 2 figs.
- Gerhard, Lee C., 1967, Surface correlation of lower Fort Union Formation beds in eastern Montana: v. 4, no. 2 (April), p. 67-72, 4 figs.
- Gerhard, Lee C., 1968, Pre-Pennsylvanian sediment, Canon City Embayment, Colorado: v. 5, no. 3 (July), p. 109-114, 2 figs.
- Gerhard, Lee C., and Mark, Anson, 1968, First day's road log—Southwest from Pueblo to northeast flank of Wet Mountains; study of Paleozoic and Mesozoic section from Beulah to Canon City area; return to Pueblo: v. 5, no. 3 (July), p. 154-164, 2 figs.
- Gerhard, Lee C., and Chase, Ronald B., 1970, Second day's road log—Canon City, Fairplay and Breckenridge: v. 7, no. 3 (July), p. 228-242, 10 figs.

- Gerhard, L. C., 1978, Reconnaissance study of sediment facies of Salt River Estuary, St. Croix, U.S.V.I.—Mixed carbonates and clastics: v. 15, no. 4 (October), p. 109-123, 15 figs., 2 tables.
- Gerhard, L. C., and Anderson, S.B., 1979, Oil exploration and development in the North Dakota Williston Basin: v. 16, no. 4 (October), p. 117-130, 12 figs., 1 table.
- Gerhard, Lee C., see also Jurie and Gerhard, 1969; Lewis and others, 1969.
- Geyer, A. P., 1972, Latigo Field, Arapahoe County, Colorado: v. 9, no. 1 (January), p. 33-44, 4 figs, 1 table.
- Gillespie, J. M., and Fox, J. E., 1991, Tectonically influenced sedimentation in the Lance Formation, eastern Wind River Basin, Wyoming, *in* Lang, H.R., Chadwick, O.A., and Paylor, E. D., II, eds., Report on the second workshop on geologic applications of remote sensing to the study of sedimentary basins: v. 28, nos. 2&3 (April/July), p. 53-66, 12 figs.
- Gilmore, T. J., 1990, Stratigraphy and depositional environments of the Lower Mississippian Joana Limestone in southern White Pine and northern Lincoln Counties, Nevada: v. 27, no. 2 (April), p. 69-76, 5 figs.
- Good, S. C., see Dubiel and others, 1989.
- Goode, Harry D., 1968, Summaries: Keys to better organization in geologic reports: v. 5, no. 2 (April), p. 83-86.
- Goodell, H. G., see McGookey and others, 1970.
- Goodwin, James C., see Dyni and Goodwin, 1972; Sanborn and Goodwin, 1965.
- Gopinath, T. R., 1978, Depositional environments of the Muddy Sandstone (Lower Cretaceous), Wind River Basin, Wyoming: v. 15, no. 1 (January), p. 27-47, 22 figs.
- Gornitz, Vivien, 1982, Volcanism and the tectonic development of the Rio Grande Rift and environs, New Mexico-Colorado, from analysis of petrochemical data: v. 19, no. 2 (April), p. 41-57, 10 figs., 2 tables.
- Grabowski, George, Jr., see Bohacs and others, 2007.
- Grader, George C., see Isaacson and others, 2007.
- Graham, Glenn, and VanSlyke, George, 2004, Development of the Regulatory Framework for the Denver Basin Aquifers: v. 41, no. 4 (October), p. 153-160, 2 figs.
- Graham, John, and Ethridge, F. G., 1995, Sequence stratigraphic implications of gutter clasts in the Skull Creek Shale, Lower Cretaceous, northern Colorado: v. 32, no. 4 (October), p. 95-106, 12 figs.
- Graham, Stephen A., and Suttner, Lee J., 1974, Occurrence of Cambrian islands in southwest Montana: v. 11, no. 2 (April), p. 71-84, 15 figs., 2 tables.
- Graham, Troy G., see Kneller and others, 2006.

- Grannell, R. B., and Showalter, P. K., 1991, A gravity study of the Thermopolis Anticline, southern Big Horn Basin, Wyoming, *in* Lang, H. R., Chadwick, O. A., and Paylor, E. D., II, eds., Report on the second workshop on geologic applications of remote sensing to the study of sedimentary basins: v. 28, nos. 2&3 (April/July), p. 105-119, 8 figs., 1 table.
- Grant, S. K., see Nusbaum and Grant, 1987.
- Gray, B. A., see Montgomery and Gray, 1989.
- Gresens, Randall L., 1971, Application of hydrolysis equilibria to the genesis of pegmatite and kyanite deposits in northern New Mexico: v. 8, no. 1 (January), p. 3-16, 19 figs., 1 table.
- Gresens, Randall L., and Stensrud, Howard L., 1974, Recognition of more metarhyolite occurrences in northern New Mexico and a possible Precambrian stratigraphy: v. 11, no. 3 (July), p. 109-124, 18 figs., 1 table.
- Gries, John Paul, 1964, Barker Dome oil field, Custer County, South Dakota: v. 1, no. 1 (January), p. 43-46, 1 fig., 1 table.
- Gries, R. R., 1981, Oil and gas prospecting beneath the Precambrian of foreland thrust plates in the Rocky Mountains: v. 18, no. 1 (January), p. 1-18, 24 figs., 1 table.
- Gries, R. R., 1985, San Juan Sag-Cretaceous rocks in a volcanic-covered basin, south central Colorado: v. 22, no. 4 (October), p. 167-179, 16 figs.
- Griffith, E. G., 1965, Geology of the Saber bar, Logan and Weld Counties, Colorado: v. 2, no. 2 (April), p. 49-60, 11 figs.
- Griffith, Earl G., see Longman and Johnson eds., 1999.
- Groen, Wilson, see Ahlbrandt and Groen, 1987.
- Grogger, P. K., see Huber and Grogger, 1985.
- Grose, L. Trowbridge, 1972, Geologic formations and structure of Colorado Springs area, Colorado: v. 9, nos. 2-3 (April/July), p. 229-237, 4 figs., 1 plate.
- Grose, L. Trowbridge., see Le Roy and Grose, 1967; Weimer and Grose, 1973.
- Gudim, C. J., 1966, The Sheep Creek Thrust at Cooper Creek, Fremont County, Wyoming: v. 3, no. 3 (July), p. 125-128, 2 figs.
- Gulbrandsen, Robert A., 1971, Relation of carbon dioxide content of apatite of the Phosphoria Formation to regional facies: v. 8, no. 2 (April), p. 81-84, 3 figs., 2 tables.
- Hagner, Arthur F., 1967, Resume of the geology of the Laramie anorthosite mass: Discussion: v. 4, no. 1 (January), p. 35-36.
- Halbouty, Michel T., 1966, Economics - The new dimension in geologic thinking (Abstract): v. 3, no. 2 (April), p. 93.
- Hale, Lyle A., see McGookey and others, 1970.

- Hall, Gary and Bullock, Jim, 1970, Third day's road log. Breckenridge to Granby: v. 7, no. 3 (July), p. 244-250, 3 figs.
- Ham, William E., 1964, Basement rocks and structural evolution of southern Oklahoma (Abstract): v. 1, no. 2 (April), p. 89.
- Hamilton, D. S., see Tyler and others, 1997.
- Hamlin, H. Scott, 1996, Frontier Formation stratigraphy on the Moxa Arch, Green River Basin, Wyoming: v. 33, no. 2 (April), p. 35-44, 9 figs.
- Hammuda, Omar S., 1974, Influence of the pre-Pennsylvanian unconformity on deposition of Morrow Sandstone in Kiowa, Bent, and Prowers Counties, southeast Colorado: v. 11, no. 1 (January), p. 33-40, 8 figs., 1 table.
- Hampton, G. L., III, see Verville and others, 1990.
- Hansen, M. W., Kirk, C. L., Byrd, W. J., Lukas, J. R., and Barrie, K. A., 1980a, Bibliography of theses and dissertations on Wyoming, by all institutions, 1968-1979: v. 17, no. 2 (April), p. 45-58, 1 fig.
- Hansen, M. W., Kirk, C. L., Byrd, W. J., Lukas, J. R., and Barrie, K. A., 1980b, Bibliography of theses and dissertations on Utah, by all institutions, 1968-1979: v. 17, no. 3 (July), p. 71-87, 1 fig.
- Hansen, M. W., Kirk, C. L., Byrd, W. J., Lukas, J. R., and Barrie, K. A., 1980c, Bibliography of theses and dissertations on Idaho and North Dakota, 1968-1980: v. 17, no. 4 (October), p. 108-124, 2 figs.
- Hansen, W. R., 1984, Post-Laramide tectonic history of the eastern Uinta Mountains, Utah, Colorado, and Wyoming: v. 21, no.1 (January), p. 5-29, 19 figs.
- Hansen, W. R., 1985, Drainage development of the Green River Basin in southwestern Wyoming and its bearing on fish biogeography, neotectonics, and paleoclimates: v. 22, no. 4 (October), p. 192-204, 10 figs.
- Hansen, Wallace R., 1998, The Oligocene Little Cottonwood Stock, central Wasatch Mountains—An example of compositional zoning by side-wall fractional crystallization of an arc-related intrusion—Discussion: v. 35, no. 1 (January), p. 41.
- Hansley, P. L., and Johnson, R. C., 1980, Mineralogy and diagenesis of low-permeability sandstones of Late Cretaceous age, Piceance Creek Basin, northwestern Colorado: v. 17, no. 4 (October), p. 88-106, 15 figs.
- Hansley, P. L., and Brown, J. L., 1993, Provenance of the Tullock Member of the Fort Union Formation, Powder River Basin, Wyoming and Montana—Evidence for early Paleocene Laramide uplift: v. 30, no. 1 (January), p. 25-34, 7 figs., 3 tables.
- Hares, C. J., 1988, A history of the oil business in the Big Horn Basin, Wyoming: v. 25, no. 1 (January), p. 3-11, 1 fig., 2 tables.
- Harms, J. C., 1964, Structural history of the southern Front Range: v. 1, no. 3 (July), p. 93-101, 4 figs.

- Harms, J. C., see also Walker and Harms, 1972.
- Harper, M. L., 1966, Joints and microfractures in Glenwood Canyon, Colorado: v. 3, no. 4 (October), p. 185-192, 6 figs., 2 tables.
- Harrington, C.D., 1985, A revision in the glacial history of Jackson Hole, Wyoming: v. 22, no. 1 (January), p. 28-32, 4 figs.
- Harris, Rae L., Jr., 1971, Penecontemporaneous gravity-controlled folds, Holman Hill, New Mexico: v. 8, no. 4 (October), p. 205-208, 5 figs.
- Harris, Rae L., Jr., and Wilbanks, John R., 1966, Variations in zircon crop measurements caused by weathering, Whitehorn Stock, central Colorado: v. 3, no. 3 (July), p. 135-138, 2 figs., 1 table.
- Harrison, C. G. A., see Johnson and others, 1991, 1992.
- Harshman, E. N., 1972a, Uranium rolls in the United States: v. 9, nos. 2-3 (April/July), p. 135-141, 6 figs.
- Harshman, E. N., 1972b, Uranium deposits of the Shirley Basin, Wyoming: v. 9, nos. 2-3 (April/July), p. 159-163, 2 figs.
- Harwood, Robert, see Dolson and others, 1993.
- Hasiotis, Stephen T., see Bohacs and others, 2007.
- Hattin, D. E., 1977, Upper Cretaceous stratigraphy, paleontology and paleoecology of western Kansas, *with a section on the Pierre Shale by W.A. Cobban, in Kauffman, E.G., ed., Cretaceous facies, faunas, and paleoenvironments across the Western Interior basin—field guide*: v. 14, nos. 3&4 (July-October), p. 175-218, 19 figs., 1 table.
- Hattin, Donald E., see also Kauffman and others, 1969.
- Haun, J. D., see McGookey and others, 1970.
- Haverfield, J. Joseph, 1970, Lower Cretaceous sediments of North Park Basin: v. 7, no. 3 (July), p. 139-149, 6 plates.
- Hawkins, Connie M., and Baugh, Ronald A., 2006, Madden Field: A Growing Giant in the Wind River Basin, Wyoming: v. 43, no. 3 (July), p. 177-180, 1 fig.
- Hayes, John R., 1967, Phosphatic pebbles from the Pierre Formation near Colorado Springs, Colorado: v. 4, no. 4 (October), p. 127-131, 11 figs.
- Hayes, M. D., 1985, Conodonts of the Bakken Formation (Devonian and Mississippian), Williston Basin, North Dakota: v. 22, no. 2 (April), p. 64-77, 4 figs., 1 table, 3 plates.
- Hazen, D. R., see Schmitt and Hazen, 1987.
- Heckert, Andrew B., see Lucas and others, 2001.
- Hedge, Carl E., 1967, The age of the gneiss at the bottom of the Rocky Mountain Arsenal well: v. 4, no. 3 (July), p. 115-117, 1 fig., 1 table.

- Hedge, C. E., see also Wobus and Hedge, 1982.
- Hendricks, Michael L., see Longman and Johnson eds., 1999.
- Heinrich, E.W., and Salotti, C.A., 1975, A colloform carbonatite, McCoy Gulch, Fremont County, Colorado: v. 12, no. 3 (July), p. 103-111, 11 figs., 1 table.
- Heinrich, E.W., 1977, Aluminofluoride minerals of the Goldie Carbonatite, Fremont County, Colorado: v. 14, no. 2 (April), p. 33-46, 13 figs., 5 tables.
- Heinrich, E.W., see also Cooperrider and Heinrich, 1978.
- Helm, R. L., see Kirschbaum and others, 1994.
- Henderson, Don, 2005, Getting the Job Done, in the Time Allowed, With the Resources Available: Fundamentals for the Professional Earth Scientist: v. 42, no. 2 (April), p. 41-44.
- Hennings, P. H., and Spang, J. H., 1987, A method for estimating fault geometry from rotated basement blocks using slip lines: v. 24, no. 2 (April), p. 31-33, 2 figs.
- Henry, Mitchell, see Higley and others, 2005.
- Hester, James J., 1974, Guidelines for archaeological activities required under current Colorado and Federal laws: v. 11, no. 4 (October), p. 127-130.
- Hester, Timothy C., 1999, Prediction of Gas Production Using Well Logs, Cretaceous of North-Central Montana: v. 36, no. 2 (April), p. 85-97, 10 figs., 1 table.
- Hewett, Thomas A., see Kelso and others, 2006.
- High, Lee R., Jr. and Picard, M. Dane, 1967, Rock units and revised nomenclature, Chugwater Group (Triassic), western Wyoming: v. 4, no. 2 (April), p. 73-81, 2 figs.
- Higley, Debra K., Henry, Mitchell, Roberts, Laura N. R., Steinshouer, Douglas W., 2005, 1-D/3-D Geologic Model of the Western Canada Sedimentary Basin: v. 42, no. 2 (April), p. 58-65, 5 figs., 1 table.
- Hite, Robert J., 1972, Shelf carbonate sedimentation controlled by salinity in the Paradox Basin, southeast Utah: v. 9, nos. 2-3 (April-July), p. 329-344, 15 figs., 1 table, 1 plate.
- Hite, R. J., Raup, O. B., Peterson, J. A., and Molenaar, C. M., 1972, SEPM Field Trip #2—First day—Cortez, Colorado, to Gooseneck Overlook via Aneth Field and Bluff, Utah; Second day—River log: Bluff, Utah, to mile 124.2, San Juan River Canyon; Third day—River log: Mile 124.2 to mile 113.4, San Juan River Canyon and Bluff, Utah, to Moab, Utah, via Monticello, Gypsum Valley, Naturita, Paradox Valley and La Sal Junction; Fourth day—Moab Utah to Onion Creek and Fisher Valley via Colorado River and Moab to Dead Horse Point: v. 9, nos. 2-3 (April-July), p. 299-328, 16 figs, 1 tectonic map and 1 stratigraphic column.
- Hite, R. J., 1978, Possible genetic relationships between evaporites, phosphorites, and iron-rich sediments: v. 15, no. 3 (July), p. 97-107, 6 figs., 1 table.
- Hoeksema, Richard, see Reinking and Hoeksema, 1980.

- Hoffman, Monty, 2008a, Damaging Relative Permeability by Drilling, Completion and Production Operations: v. 45, no. 4 (October), p. 99-106, 6 figs.
- Hoffman, Monty, 2008b, Sub-Capillary Pressure Equilibrium Reservoirs: Their Formation and Effect on Oil and Gas Production: v. 45, no. 4 (October), p. 107-119, 13 figs.
- Hogle, D. G., and Jones, R. W., 1991, Subsurface geology of Upper Cretaceous and Lower Tertiary coal-bearing rocks, Wind River Basin, Wyoming, *in* Lang, H.R., Chadwick, O.A., and Paylor, E.D., II, eds., Report on the second workshop on geologic applications of remote sensing to the study of sedimentary basins: v. 28, nos. 2&3 (April/July), p. 13-35, 24 figs., 1 table.
- Hoholick, J. D., Metarko, T. A., and Potter, P. E., 1982, Weighted contact packing—Improved formula for grain packing of quartz arenites: v. 19, no. 3 (July), p. 79-82, 4 figs.
- Hoisch, Thomas D., see Everett and Hoisch, 2008.
- Holbrook, J. M., see Scott and others, 2004.
- Holm, R. F., 1987, Geomorphic evidence for youngest dated faults in north-central Arizona: v. 24, no. 1 (January), p. 1925, 4 figs.
- Holmes, C. W., see M'Gonigle and others, 1995.
- Hook, Natalie, see Lockley and others, 2001.
- Horn, B. W., see Slatt and others, 1995.
- Houck, Karen J., 2001, Sedimentology and stratigraphy of the Morrison Formation in the Dinosaur Ridge area near Morrison, Colorado; v. 38, no. 3, p. 97-110.
- Houck, Karen J., see Itano and others, 2003.
- House, Nancy J., see DuBois and others, 2006.
- Howard, James D., 1966, Patterns of sediment dispersal in the Fountain Formation of Colorado: v. 3, no. 4 (October), p. 147-153, 4 figs., 1 table.
- Howard, James D., 1969, Depositional control of Upper Cretaceous coal units: v. 6, no. 3 (July), p. 143-146.
- Howard, J. D., see also Frey and Howard, 1982.
- Hoy, Richard G. and Ridgway, Kenneth D., 1998, Deformation of Eocene synorogenic conglomerate in the footwall of the Clear Creek Thrust Fault, Bighorn Mountains, Wyoming: v. 35, no. 3 (July), p. 81-90, 9 figs.
- Huber, T. P., and Grogger, P. K., 1985, Late Pleistocene glaciation of Pikes Peak, Colorado: v. 22, no. 3 (July), p. 139-147, 13 figs., 2 tables.
- Hubert, John F., and Panish, Peter T., 2000, Sedimentology and Diagenesis of the Dinosaur Bones Exposed at Dinosaur Ridge along Alameda Parkway in the

- Morrison Formation (Upper Jurassic), Morrison, Colorado: v. 37, no. 2 (April), p. 73-89, 12 figs.
- Hull, Joseph P. D., 1999, Discovery of Pineview Oil Field: v. 36, no. 4 (October), p. 201-209, 6 figs.
- Humphrey, J. R., see Wong and Humphrey, 1986.
- Huntoon, Peter W., 1996, Large-basin ground water circulation and paleo-reconstruction of circulation leading to uranium mineralization in Grand Canyon breccia pipes, Arizona: v. 33, no. 3 (July), p. 71-84, 12 figs.
- Hurst, D. J., and Steidtmann, J. R., 1986, Stratigraphy and tectonic significance of the Tunp Conglomerate in the Fossil Basin, southwest Wyoming: v. 23, no. 1 (January), p. 6-13, 7 figs.
- Husler, J. W., see Woodward and others, 1978.
- Indelicato, G. J., see Pickering and Indelicato, 1985.
- Inden, R. F., see Coalson and Inden, 1990.
- Isaacson, Peter E., see Abplanalp and others, 2009; Archuleta and others, 2006.
- Isaacson, Peter E., Grader, George C., Pope, Michael C., Montanez, Isabel P., Butts, Susan H., Batt, Liselle S., and Abplanalp, Jason M., 2007, Devonian-Mississippian Antler Foreland Basin Carbonates in Idaho: Significant Subsidence and Eustasy Events: v. 44, no. 3 (July), p. 119-140, 9 figs.
- Itano, Wayne M., and Bateman, William D., 2001, Synarmocrinus Cobbani, A New Crinoid from the Minturn Formation (Middle Pennsylvanian): v. 38, no. 2 (April), p. 71-76, 3 figs.
- Itano, Wayne M., Webster, Gary D., Houck, Karen J., and Bateman, William D., 2003, The First Pennsylvanian Batocrinid and Other New Echinoderms from the Minturn Formation of Central Colorado: v. 40, no. 3 (July), p. 83-100, 9 figs.
- Ivey, John B., see Doeringsfeld and Ivey, 1964.
- Izett, G. A., and Obradovich, J. D., 2001, $^{40}\text{Ar}/^{39}\text{Ar}$ Ages of Miocene Tuffs in Basin-Fill Deposits (Santa Fe Group, New Mexico and Troublesome Formation, Colorado) of the Rio Grande Rift System: v. 38, no. 2 (April), p. 77-86, 1 fig., 2 tables.
- Jacobson, S. R., see Nichols, D.J., and Jacobson, 1982.
- Jansma, P. E., Lang, H. R., and Johnson, C. A., 1991, Preliminary investigation of the Tertiary Balsas Group, Mesa Los Caballos area, northern Guerrero State, Mexico, using Landsat Thematic Mapper data, *in* Lang, H.R., Chadwick, O.A., and Paylor, E.D., II, eds., Report on the second workshop on geologic applications of remote sensing to the study of sedimentary basins: v. 28, nos. 2&3 (April/July), p. 137-150, 10 figs.

- Jansma, P. E., and Mattioli, G. S., 1994, Fluid flow in brittle shear zones and coeval precipitation of nodular chert in Paleozoic carbonate during regional deformation in the hinterland of the Sevier Orogenic Belt: v. 31, no. 3 (July), p. 85-94, 8 figs.
- Jarvie, Daniel M., 2001, Williston Basin Petroleum Systems: Inferences from Oil Geochemistry and Geology: v. 38, no. 1 (January), p. 19-41, 14 figs., 5 tables.
- Jehn-Dellaport, Theresa, 2004, Innovative Water Well Completion in the Denver Basin, Colorado: v. 41, no. 4 (October), p. 211-217, 6 figs.
- Jensen, J. A., see Bartleson and Jensen, 1988.
- Johnson, C. A., Lang, H. R., Cabral-Cano, Enrique, Harrison, C. G. A., and Barros, J. A., 1991, Preliminary assessment of stratigraphy and structure, San Lucas region, Michoacan and Guerrero States, SW Mexico, *in* Lang, H.R., Chadwick, O.A., and Paylor, E.D., II, eds., Report on the second workshop on geologic applications of remote sensing to the study of sedimentary basins: v. 28, nos. 2&3 (April/July), p. 121-135, 7 figs.
- Johnson, C. A., Lang, H. R., Cabral-Cano, Enrique, Harrison, C. G. A., and Barros, J. A., 1992, Preliminary assessment of stratigraphy and structure, San Lucas region, Michoacan and Guerrero States, SW Mexico-Reply: v. 29, no. 1 (January), p. 3-4, 2 figs.
- Johnson, C. A., see also Jansma and others, 1991.
- Johnson, Cari, see Milner and others, 2005.
- Johnson, D. B., see Sivils and Johnson, 2000.
- Johnson, M. S., 1995, Dickinson Field Lodgepole reservoir-Significance of this Waulsortian-type mound to exploration in the Williston Basin: v. 32, no. 3 (July), p. 55-79, 32 figs., 2 tables.
- Johnson, Michael S., see Longman and Johnson eds., 1999.
- Johnson, Michael S., 2001, Discovery of Oil in the Williston Basin: Story of the #1 Clarence Iverson Well: v. 38, no. 4 (October), p. 165-179, 7 figs.
- Johnson, Ross B., 1968, The Great Sands Dunes of southern Colorado: v. 5, no. 1 (January), p. 23-29, 4 figs.
- Johnson, Ross B. and Bolyard, D. W., with editing by Thurston, W. R., 1969, Second day's road log—Walsenburg to Black Hills, Gardner, Pass Creek, Russell, La Veta Pass, La Veta, Cucharas Pass, Apishipa Pass, Aguilar, Walsenburg: v. 6, no. 3 (July), p. 166-182, 2 figs., 4 photos.
- Johnson, R. C., see Hansley and Johnson, 1980.
- Johnson, S. Y., see Nuccio and others, 1989.
- Johnson, W. E., 1988, Amplitude versus offset gradient modeling over a Minnelusa Field: v. 25, no. 2 (April), p. 61-69, 12 figs.
- Johnson, Walter E., see Loudon and others, 2000.

- Jones, R. W., see Hogle and Jones, 1991.
- Juhan, Joe Paul, 1965, Stratigraphy of the Evacuation Creek Member (Green River Formation), Piceance Creek Basin, northwestern Colorado: v. 2, no. 3 (July), p. 123-128, 3 figs.
- Jurie, Carl A., and Gerhard, Lee C., 1969, Colorado Raton Basin: Mineral resources and geologic section: v. 6, no. 3 (July), p. 81-84, 1 fig.
- Kaiser, W. R., see Tyler and others, 1997.
- Kaliser, B. N., see Ritzma and Kaliser, 1977.
- Kaplan, S. S., Carr, J. D., and Kelter, P. B., 1983, Analysis of the trace element content of coals from the Wabaunsee Group, southeastern Nebraska: v. 20, no. 1 (January), p. 1-4, 4 figs., 1 table.
- Karig, Daniel E., 1964, Tertiary regional metamorphism in the Sangre de Cristo Range, Colorado: v. 1, no. 2 (April), p. 59-66, 5 figs.
- Kauffman, Erle G., 1969, Cretaceous marine cycles of Western Interior: v. 6, no. 4 (October), p. 227-245, 4 figs.
- Kauffman, Erle G., ed., 1977a, Cretaceous facies, faunas, and paleoenvironments across the Western Interior basin—Field guide: v. 14, nos. 3&4 (July-October), p. 75-274.
- Kauffman, Erle G., 1977b, Geological and biological overview Western Interior Cretaceous basin, *in* Kauffman, E.G., ed., Cretaceous facies, faunas, and paleoenvironments across the Western Interior basin—Field guide: v. 14, nos. 3&4 (July-October), p. 75-99, 12 figs.
- Kauffman, Erle G., 1977c, Illustrated guide to biostratigraphically important Cretaceous macrofossils, Western Interior basin, U.S.A., *in* Kauffman, E.G., ed., Cretaceous facies, faunas, and paleoenvironments across the Western Interior basin—Field guide: v. 14, nos. 3&4 (July-October), p. 225-274, 32 plates.
- Kauffman, Erle G., Cobban, W.A., Eicher, D.L., and Scott, G.R., 1977, Upper Cretaceous cyclothems, biotas, and environments, Rock Canyon Anticline, Pueblo, Colorado, *in* Kauffman, E.G., ed., Cretaceous facies, faunas, and paleoenvironments across the Western Interior basin—Field guide: v. 14, nos. 3&4 (July-October), p. 129-152, 5 figs., 3 plates.
- Kauffman, Erle G., Powell, J. Dan, and Hattin, Donald, 1969, Cenomanian-Turonian facies across the Raton Basin: v. 6, no. 3 (July), p. 93-118, 4 figs.
- Kauffman, E. G., see also Eaton and others, 1990.
- Keefer, William R., 1965, Geologic history of the Wind River Basin, central Wyoming (Abstract): v. 2, no. 1 (January), p. 43.
- Keighin, C. W., 1980, Comparison of Fischer assay data generated by four laboratories: v. 17, no. 1 (January), p. 13-21, 7 figs.

- Keighin, C. W., Zech, R. S., and Dunbar, R. W., 1993, The Point Lookout Sandstone-A tale of two cores, or petrology, diagenesis, and reservoir properties of Point Lookout Sandstone, Southern Ute Indian Reservation, San Juan Basin, Colorado: v. 30, no. 1 (January), p. 5-16, 11 figs., 1 table.
- Kellogg, Harold E., 1997, 75 years of the RMAG: v. 34, no. 4 (October), p.121-170, 4 figs., 22 tables, 15 photos and numerous inserts.
- Kelso, Bruce S., Stewart, Joseph D., Norberg, Kori K., Hewett, Thomas A., 2006, Niobrara Biogenic Natural Gas in the Eastern DJ Basin, Colorado, Kansas and Nebraska: v. 43, no. 3 (July), p. 237-242, 6 figs.
- Kelter, P. B., see Kaplan and others, 1983.
- Kenny, Ray and Krinsley, David H., 1998, Silicified micropeloid structures from the 1.1 Ga Mescal Limestone, north-central Arizona: Probable evidence for Precambrian terrestrial life: v. 35, no. 2 (April), p. 45-53, 6 figs.
- Kent, Harry C., 1973, Crisis in geological education in Colorado: v. 10, no. 2 (April), p. 33-37, 7 tables.
- Kidwell, A. L., see Langen and Kidwell, 1974.
- King, Elizabeth M., Malone, David H., and DeFrates, Joshua, 2009, Oxygen Isotope Evidence of Heated Pore Fluid Interaction with Mafic Dikes at Cathedral Cliffs, Wyoming: v. 46, no. 2 (April), p. 71-88, 11 figs., 2 tables.
- Kirchner, J. G., 1991, Mordenite and montmorillonite alteration of glass structures in a rhyolite pipe, northern Black Hills, South Dakota: v. 28, no. 4 (October), p. 24-29, 7 figs., 1 table.
- Kirk, C. L., Byrd, W. J., Dow, R. L., Lukas, J. R., Barrie, K. A., and Knapp, R., 1981a, Bibliography of theses and dissertations on Montana, 1968-1980: v. 18, no. 3 (July), p. 64-76, 1 fig.
- Kirk, C. L., Byrd, W. J., Dow, R. L., Lukas, J. R., and Barrie, K. A., 1981b, Bibliography of theses and dissertations on Colorado, 1968-1980: v. 18, no. 4 (October), p. 96-113, 1 fig.
- Kirk, C. L., Montgomery, E. B., Knapp, Roy, Dow, Robin, Lukas, J. R., and Barrie, K. A., 1982, Bibliography of theses and dissertations on Nevada, 1968-1982: v. 19, no. 4 (October), p. 115-134, 1 fig.
- Kirk, C. L., Montgomery, E. B., Knapp, Roy, Dow, Robin, Lukas, J. R., and Barrie, K. A., 1983a, Bibliography of theses and dissertations on New Mexico, 1968-1982: v. 20, no. 2 (April), p. 63-81, 1 fig.
- Kirk, C. L., Montgomery, E. B., Stark, M., Lukas, J. R., and Barrie, K. A., 1983b, Bibliography of theses and dissertations on Hawaii, 1968-1982: v. 20, no. 3 (July), p. 98-105, 1 fig.

- Kirk, C. L., Montgomery, E. B., Stark, M., Lukas, J. R., and Barrie, K. A., 1984, Bibliography of geoscience theses and dissertations on Alaska (1968-1982): v. 21, no. 4 (October), p. 133-142, 1 fig.
- Kirk, C. L., see also Hansen and others, 1980.
- Kirkham, Robert M., Streufert, Randall K., Budahn, James R., Kunk, Michael J., and Perry, William J., 2001, Late Cenezoic Regional Collapse Due to Evaporite Flow and Dissolution in the Carbonate Collapse Center, West-Central Colorado: v. 38, no. 4 (October), p. 193-210, 9 figs.
- Kirkland, J. I., see Eaton and others, 1990.
- Kirschbaum, M. A., 1986, Depositional environments of the Rock Springs Formation, southwest flank of the Rock Springs Uplift, Wyoming: v. 23, no. 2 (April), p. 63-75, 14 figs.
- Kirschbaum, M. A., Andersen, D. W., Helm, R. L., and Baldwin, R. J., 1994, Paleocene drainage systems, Rock Springs Uplift, Wyoming: v. 31, no. 1 (January), p. 19-28, 7 figs.
- Kirschbaum, Mark A., Merewether, E. A., and Condon, Steven M., 2009, Stratigraphy and Age of the Frontier Formation and Associated Rocks, Central and Southern Bighorn Basin, Wyoming—Surface to Subsurface Correlation v. 46, no. 4 (October), p. 125-147, 12 figs., 1 table.
- Kiteley, L. W., 1976, Marine shales and sandstones in the Upper Cretaceous Pierre Shale at the Francis Ranch, Laramie County, Wyoming: v. 13, no. 1 (January), p. 1-19, 5 figs.
- Kittleson, Ken, 1992, Decollement faulting in the northwest portion of the Denver Basin: v. 29, no. 2 (April), p. 65-70, 11 figs.
- Kittleson, Ken, 2009, The Origin of the Boulder-Weld Fault Zone, East of Boulder, Colorado: v. 46, no. 1 (January), p. 37-49, 13 figs.
- Kittleson, Kendall L., 2004, The Effect of Reverse Faulting on the Thickness, Depth, and Water Quality of the Laramie-Fox Hills Aquifer in the Western Denver Basin, Colorado: v. 41, no. 4 (October), p. 185-194, 10 figs., 1 table.
- Kleinkopf, M. Dean, see MacLachlan and Kleinkopf, 1969.
- Kligfield, Roy, see Geiser and others, 1988.
- Klugman, M. A., 1966, Resume of the geology of the Laramie anorthosite mass: v. 3, no. 2 (April), p. 75-84, 6 figs., 1 plate.
- Klugman, M. A., 1967, Reply to discussion: Resume of the geology of the Laramie anorthosite mass: v. 4, no. 1 (January), p. 36.
- Kluth, C. F., and Nelson, S. N., 1988, Age of the Dawson Arkose, southwestern Air Force Academy, Colorado, and implications for the uplift history of the Front Range: v. 25, no. 1 (January), p. 29-35, 5 figs.

- Knapp, Roy, see Kirk and others, 1981a, 1982.
- Kneller, Stephen R., Zinke, Sally G., McDermott, Robert W., Graham, Troy G., and Shearer, Sarah E., 2006, Unlocking the Potential of a Tight Gas Sand Giant: Pinedale Field, Wyoming: v. 43, no. 3 (July), p. 181-186, 4 figs.
- Knepper, Daniel H., Jr., 2005, Bedrock Erosion Surface Beneath the Rocky Flats Alluvial Fan, Jefferson and Boulder Counties, Colorado: v. 42, no. 1 (January), p. 1-9, 5 figs.
- Knepper, Daniel H., Jr., see Shawe and others, 2008.
- Kochan, Mark, see Martin and others, 1992.
- Koschman, A. H., 1972, Cripple Creek district: v. 9, no. 2-3 (April-July), p. 207-209, 1 fig.
- Kovach, Paul L., Caldaro-Baird, Julia L., and Wynne, Peter J., 2003, Stagecoach Draw Field: Gas Production from the Westernmost Marine-Influenced Deposits of the Lewis Seaway Transgression into Southwestern Wyoming: v. 40, no. 2 (April), p. 35-53, 15 figs.
- Kraus, Mary J., and Wells, Tina M., 1999, Facies and Facies Architecture of Paleocene Floodplain Deposits, Fort Union Formation, Bighorn Basin, Wyoming: v. 36, no. 2 (April), p. 57-70, 12 figs.
- Krinsley, David H., see Kenny and Krinsley, 1998.
- Krishnamurthy, R. V., see Clarey and others, 1998.
- Krishtalka, L., see Stucky and Krishtalka, 1991.
- Krummel, William J., 1973, Bighole gas field, Moffat County, Colorado: v. 10, no. 2 (April), p. 39-43, 2 figures, 1 table.
- Krusi, Alan, see McGuire and others, 1982.
- Krutak, Paul R., 1970, Origin and depositional environment of the Codell Sandstone Member of the Carlile Shale (Upper Cretaceous), southeastern Colorado: v. 7, no. 3 (July), p. 185-204, 13 figs., 1 table.
- Kues, B. S., see Scott and others, 2004.
- Kunk, Michael J., see Kirkham and others, 2001.
- Kurtz, William J., Lockley, Martin G., and Engard, Donna J., 2001, Dinosaur tracks in the Plainview Formation, Dakota Group (Cretaceous, Albian) near Cañon City, Colorado: a preliminary report on another "dinosaur ridge": v. 38, no. 3, p. 155-164.
- Kuryvial, R. J., see Mulholland and Kuryvial, 1992.
- Lamarre, Robert A., 2006, Coalbed Methane Production from Ferron Coals in East-Central Utah: v. 43, no. 3 (July), p. 207-212, 4 figs.
- Lamarre, Robert A., and Pratt, Timothy J., 2002, Reservoir Characterization Study: Calculation of Gas-in-Place in Ferron Coals at Drunkard's Wash Unit, Carbon and Emery Counties, Utah: v. 39, no. 2 (April), p. 41-51, 19 figs., 3 tables.

- Land, Cooper B., Jr., see De Voto and others, 1972; Weimer and Land, 1972a, 1972b.
- Landon, Susan M., see Longman and others, 1998.
- Landon, Susan M., Longman, Mark W., and Luneau, Barbara A., 2001, Hydrocarbon Source Rock Potential of the Upper Cretaceous Niobrara Formation, Western Interior Seaway of the Rocky Mountain Region: v. 38, no. 1 (January), p. 1-18, 13 figs., 2 tables.
- Lang, H. R., Chadwick, O. A., and Paylor, E. D., II, eds., 1991, Report on the second workshop on geologic applications of remote sensing to the study of sedimentary basins: v. 28, nos. 2&3 (April/July), p. 1-150.
- Lang, H. R., Frerichs, W. E., McGugan, Alan, and Paylor, E. D., 1991, Biostratigraphic significance of a new unit, mapped remotely with multispectral thermal infrared data, Late Cretaceous Cody Shale, southern Big Horn Basin, Wyoming, *in* Lang, H.R., Chadwick, O.A., and Paylor, E.D., II, eds., Report on the second workshop on geologic applications of remote sensing to the study of sedimentary basins: v. 28, nos. 2&3 (April-July), p. 67-73, 4 figs.
- Lang, H. R., see Jansma and others, 1991; Johnson and others, 1991, 1992; Paylor and others, 1989.
- Langen, Raymond E. and Kidwell, A. L., 1974, Geology and geochemistry of the Highland uranium deposit, Converse County, Wyoming: v. 11, no. 2 (April), p. 85-93, 9 figs.
- Langford, R. P., see Leonard and Langford, 1994.
- Larsen, Daniel, Loomis, Jennifer L., and Crossey, Laura J., 2000, Diagenesis in the Point Lookout Sandstone, San Juan Basin, New Mexico and Colorado: Influence of Depositional Conditions, Cyclic Stratigraphy, and Changing Hydrologic Regime: v. 37, no. 3 (July), p. 109-133, 17 figs., 3 tables.
- Larsen, R. T., 1972, AAPG field trip 2: First day—Laramie to Rawlins; Second day—Rawlins to Vernal: v. 9, nos. 2-3 (April/July), p. 86-114, 18 figs.
- Larsen, R. T., see De Voto and Larsen, 1972; De Voto and others, 1972.
- Larson, E. E., and Amini, M. H., 1981, Fission-track dating of the Green Mountain kimberlite diatreme, near Boulder, Colorado: v. 18, no. 1 (January), p. 19-22, 1 fig., 1 table.
- Larson, Scott M., see Erslev and Larson, 2006.
- Laubach, S. E., Schultz-Ela, D. D., and Tyler, Roger, 1993, Analysis of compaction effects on coal fracture patterns, Upper Cretaceous Rock Springs Formation, southwestern Wyoming: v. 30, no. 3 (July), p. 95-110, 14 figs., 1 table.
- Lauman, Gary W., 1966, Geology of Williams Fork Field, Moffat County, Colorado: v. 3, no. 3 (July), p. 99-114, 10 figs., 1 table.

- Law, B. E., Spencer, C. W., and Bostick, N. H., 1980, Evaluation of organic matter, subsurface temperature and pressure with regard to gas generation in low-permeability Upper Cretaceous and Lower Tertiary sandstones in Pacific Creek area, Sublette and Sweetwater Counties, Wyoming: v. 17, no. 2 (April), p. 23-35, 9 figs.
- Layer, Paul W., see Caine and others, 2006.
- Le Roy, L. W., 1964, Generalized composite stratigraphic section, South Park, Colorado: v. 1, no. 3 (July), p. 115, 1 fig.
- Le Roy, L. W., 1965, Dakota Formation south of Golden, Jefferson County, Colorado: v. 2, no. 2 (April), p. 65-70, 6 figs.
- Le Roy, L. W., 1966, The geologist in construction: v. 3, no. 2 (April), p. 85-88, 1 table.
- Le Roy, L. W., and Grose, L. T., 1967, Cherry Gulch slide, Jefferson County, Colorado: v. 4, no. 4 (October), p. 133-139, 8 figs.
- Leggitt, V. Leroy, Cushman, Robert A., Jr., Buchheim, H. Paul, and Loewen, Mark A., 2007, Caddisfly (Insecta:Trichoptera) Cases Used as Unique Autochthonous Paleoenvironmental Indicators: Eocene Lake Gosiute: v. 44, no. 2 (April), p. 109-118, 5 figs.
- Leggitt, V. Leroy, and Loewen, Mark A., 2007, Immature Aquatic Dipteran Impressions Preserved in Tufa: Eocene Fossil Lake, Wyoming: v. 44, no. 2 (April), p. 61-68, 2 figs.
- LeGrand, Fred, Parrott, Ken, and Enterline, Ted, 2006, Cave Gulch Field, Natrona County, Wyoming: Focus Returns to the Deep Objectives: v. 43, no. 3 (July), p. 171-176, 4 figs., 1 table.
- Lee, James, see Young and others, 2006.
- Lee, M. J., see Brookins and others, 1978.
- Lehman, Donald D., see Loudon and others, 2000.
- Lehrer, Mark G., 2006, Revitalizing the Moxa Arch: Exploiting a Significant Resource Play: v. 43, no. 3 (July), p. 201-206, 5 figs.
- Leier, Andrew L., and Steidtmann, James R., 2009, The Bacon Ridge Sandstone of Northwestern Wyoming and its Place Within the Larger-Scale Late Cretaceous Depositional History of the Region: v. 46, no. 2 (April), p. 51-70, 7 figs., 1 table.
- Leonard, E. M., and Langford, R. P., 1994, Post-Laramide deformation along the eastern margin of the Colorado Front Range—A case against significant faulting: v. 31, no. 2 (April), p. 45-52, 4 figs.
- Lester, Alan, 1993, Analysis of K-feldspar from a contact aureole—Applications to thermal history studies: v. 30, no. 4 (October), p. 119-124, 4 figs.
- Levey, R. A., 1992, Rapid methods for assessing formation pressures—An example from the Lower Cretaceous of the Greater Green River Basin: v. 29, no. 2 (April), p. 41-46, 6 figs.

- Lewan, Michael D., see Roberts and others, 2004.
- Lewis, Christopher J., Wilde, D. E., and Gerhard, Lee C., 1969, Basement structure map of the Raton Basin area, Colorado: v. 6, no. 3 (July), p. 85-86, 1 fig.
- Lillegraven, Jason A., and McKenna, Malcolm C., 2008, Re-evaluating Palynomorph-Based Biozones in Paleogene Strata of Rocky Mountain Basins: v. 45, no. 2 (April), p. 21-48, 6 figs, 2 tables.
- Lillis, Paul G., 2007, Upper Cretaceous Microbial Petroleum Systems in North-Central Montana: v. 44, no. 1 (January), p. 11-35, 11 figs., 4 tables, 2 appendices.
- Lin, J. T. C., 1981, Hydrodynamic flow in Lower Cretaceous Muddy Sandstone, Gas Draw Field, Powder River Basin, Wyoming: v. 18, no. 4 (October), p. 78-87, 12 figs., 1 table.
- Lindholm, R. C., see Merin and Lindholm, 1986.
- Lindsey, David A., 1998, Laramide structure of the central Sangre de Cristo Mountains and adjacent Raton Basin, southern Colorado: v. 35, no. 2 (April), p. 55-70, 13 figs., 2 tables.
- Lloyd, R. M., see Rogers and others, 1995.
- Locke, W.W., 1987, Low-energy seismic survey of Quaternary materials, Rocky Mountain National Park, Colorado: v. 24, no. 2 (April), p. 45-50, 6 figs., 1 table.
- Lockley, M. G., Young, B. H., and Carpenter, Kenneth, 1983, Hadrosaur locomotion and herding behavior—Evidence from footprints in the Mesaverde Formation, Grand Mesa coal field, Colorado: v. 20, no. 1 (January), p. 5-13, 5 figs., 1 table.
- Lockley, M. G., 1987, Dinosaur footprints from the Dakota Group of eastern Colorado: v. 24, no. 4 (October), p. 107-122, 8 figs., 1 table.
- Lockley, Martin, 2001, A decade of dinosaur tracking at Dinosaur Ridge: v. 38, no. 3, p. 119-135.
- Lockley, Martin G., see Kurtz and others, 2001.
- Lockley, Martin G., Hook, Natalie, and Taylor Andrew, 2001, A brief history of paleontological research and public education o Dinosaur Ridge: v. 38, no. 3, p. 87-95.
- Lockley, Martin G., Wright, Joanna L., Matsukawa, Masaki, 2001, A new look at *Magnoavipes* and so-called “big bird” tracks from Dinosaur Ridge (Cretaceous, Colorado): v. 38, no 3, p. 137-146.
- Loeffler, P. T., see Sahl and others, 1993.
- Loewen, Mark A., see Leggitt and Loewen, 2007; Leggitt and others, 2007.
- Longman, Mark W., 1996, Did the Mississippian Lodgepole buildup at Dickinson Field (North Dakota) form as a gas seep ("vent") community? : v. 33, no. 4 (October), p. 105-114, 7 figs., 1 table.

- Longman, Mark, Basse, Robert, and Pope, Jerry, 2003, Characteristics of the Glen Bench Sandstone Reservoir, Eocene Green River Formation, Glen Bench Field, Uintah County, Utah: v. 40, no. 4 (October), p. 129-141, 10 figs.
- Longman, Mark W., Luneau, Barbara A., and Landon, Susan M., 1998, Nature and distribution of Niobrara lithologies in the Cretaceous Western Interior Seaway of the Rocky Mountain region: v. 35, no. 4 (October), p. 137-170, 31 figs.
- Longman, Mark W., and Johnson, Michael S., eds., 1999, A Bibliography of Rocky Mountain Oil and Gas Fields: v. 36, no. 3 (July), p. 99-199.
- Longman, M. W., see also Rogers and others, 1995.
- Longman, Mark W., see Landon and others, 2001; Ray and Longman eds., 2000.
- Loomis, Jenifer L., see Larsen and others, 2000.
- Loope, D. B., Sanderson, G. A., and Verville, G. J., 1990, Abandonment of the name "Elephant Canyon Formation" in southeastern Utah—Physical and temporal implications: v. 27, no. 4 (October), p. 119-130, 11 figs.
- Loucks, Gerald G., see Bolyard and others, 1968.
- Louden, Richard O., Lehman, Donald D., Johnson, Walter E., and Edwards, Duncan L., 2000, Horse Canyon Field, A 3-D Seismic Model for Upper Ismay Algal Mound Production, Southern Paradox Basin, Utah: v. 37, no. 1 (January), p. 47-57, 13 figs.
- Lozano, Efraim, 1967, Stratigraphy and structure of Tertiary rocks in central South Park, Park County, Colorado: v. 4, no. 4 (October), p. 119-126, 3 figs., 1 table.
- Lubin, Susan, see Chen and Lubin, 1997.
- Lucas, Spencer G., Heckert, Andrew B., and Anderson, Orin J., 2001, The Middle Jurassic Entrada Sandstone near Gallup, New Mexico: Discussion: v. 38, no. 4 (October), p. 225-227, 2 figs.
- Luft, S. J., 1985, Airfall tuff in the Browns Park Formation, northwestern Colorado and northeastern Utah: v. 22, no. 3 (July), p. 110-127, 15 figs., 6 tables.
- Lukas, J. R., see Hansen and others, 1980a, 1980b, 1980c; Kirk and others, 1981a, 1981b, 1982, 1983a, 1983b, 1984.
- Luneau, Barbara A., see Landon and others, 2001; Longman and others, 1998.
- Macdonald, R. H., and Byers, C. W., 1988, Depositional history of the Greenhorn Formation (Upper Cretaceous), northwestern Black Hills: v. 25, no. 3 (July), p. 71-85, 13 figs.
- Mack, G. H., 1977, Depositional environments of the Cutler-Cedar Mesa facies transition (Permian) near Moab, Utah: v. 14, no. 2 (April), p. 53-68, 9 figs., 1 table.
- Mack, G. H., and Miller, M. L., 1980, Pennsylvanian mud mound, Hermosa Group, southeastern Colorado: v. 17, no. 2 (April), p. 37-43, 5 figs., 1 table.

- Mack, Greg H., and Dinterman, Philip A., 2002, Depositional Environments and Paleogeography of the Lower Permian (Leonardian) Yeso and Correlative Formations in New Mexico: v. 39, no. 4 (October), p. 75-88, 9 figs., 1 table.
- MacKenzie, David B., 1968, Studies for students: Sedimentary features of Alameda Avenue road cut, Denver, Colorado: v. 5, no. 1 (January), p. 3-13, 8 figs.
- MacKenzie, David B., 1971, Post-Lytle Dakota Group on west flank of Denver Basin, Colorado: v. 8, no. 3 (July), p. 91-131, 9 figs., 3 tables, 4 plates, 8 measured sections.
- MacKenzie, David B., 1972, Tidal sand flat deposits in Lower Cretaceous Dakota Group near Denver, Colorado: v. 9, no. 2-3 (April-July), p. 269-277, 8 figs, 1 table.
- MacLachlan, J. C., and Kleinkopf, M. D., 1969, Configuration of the crystalline basement rocks of Colorado: v. 6, no. 2 (April), p. 193, 1 fig., 1 plate.
- Madden, C. T., 1977, *Pliomastodon* (Proboscidea, Palaeomastodontidae) from the late Miocene of Colorado: v. 14, no. 1 (January), p. 27-32, 1 figs., 2 tables.
- Madden, D. J., 1985, Description and origin of the lower part of the Mesaverde Group in Rifle Gap, Garfield County, Colorado: v. 22, no. 3 (July), p. 128-138, 8 figs.
- Madole, Richard F., see Murray and others, 1968.
- Malan, Roger C., 1969, Uranium in the Tertiary intermontane basins of Colorado: v. 6, no. 1 (January), p. 41-51, 9 figs.
- Mallory, W. W., 1966a, Pathfinder Uplift of Pennsylvanian age in southern Wyoming: v. 3, no. 3 (July), p. 129-132, 2 figs.
- Mallory, W. W., 1966b, Cattle Creek Anticline, a salt diapir near Glenwood Springs, Colorado: v. 3, no. 4 (October), p. 181-184, 3 figs.
- Malone, A. E., and Suttner, L. J., 1992, Deposition of the Morrison Formation (Jurassic), northern Tobacco Root Mountains, Montana with evidence against recurrent movement along the Willow Creek fault zone: v. 29, no. 2 (April), p. 47-64, 18 figs., 2 tables.
- Malone, David H., see Rhodes and others, 2007; King and others, 2009.
- Manfrino, Carrie, 1984, Stratigraphy and palynology of the upper Lewis Shale, Pictured Cliffs Sandstone, and lower Fruitland Formation (Upper Cretaceous) near Durango, Colorado: v. 21, no. 4 (October), p. 115-132, 23 figs.
- Mansholt, M. S., 1983, Petrography and petrology of a Miocene(?) tuff, Las Vegas Range, Clark County, Nevada: v. 20, no. 3 (July), p. 86-96, 3 figs.
- Mark, Anson, and Requist, Norris, 1969a, First day's road log—Trinidad to Walsenburg and return to Trinidad, Mesozoic and Tertiary of east flank of Raton Basin: v. 6, no. 3 (July), p. 148-165, 10 figs.
- Mark, Anson, and Requist, Norris, 1969b, Third day's road log—Walsenburg to Rye to Wetmore, Mesozoic of the Wet Mountains: v. 6, no. 3 (July), p. 185-190, 3 figs.

- Mark, Anson, see also Gerhard and Mark, 1968.
- Marrs, R. W., see Blundell and Marrs, 1991.
- Mars, J. C., see Thomas and others, 1996.
- Marsh, Antony J., and Smith, R. K., 1997, The Oligocene Little Cottonwood Stock, central Wasatch Mountains, Utah: An example of compositional zoning by side-wall fractional crystallization of an arc-related intrusion: v. 34, no. 3 (July), p. 83-96, 12 figs., 1 table.
- Marsh, Antony J., see also Smith and Marsh, 1998.
- Martin, W. D., McWilliams, R. G., and Kochan, Mark, 1992, Occurrence and significance of the Burnt Gulch Formation: A Pliocene-Pleistocene conglomerate, Wind River Basin, Wyoming: v. 29, no. 1 (January), p. 29-40, 12 figs.
- Martinez, C. J., see Pollastro and Martinez, 1985.
- Martz, Jeffrey, 1996, First occurrence of *Platecarpus* (Reptilia: Mosasauridae) in Colorado: v. 33, no. 3 (July), p. 65-70, 3 figs., 1 table.
- Marvin, Richard F., see Olson and Marvin, 1971, 1972.
- Maslyn, R. M., 1977, Fossil tower karst near Molas Lake, Colorado: v. 14, no. 1 (January), p. 17-25, 15 figs.
- Maslyn, R. M., see also DeVoto and Maslyn, 1977.
- Masters, John A., 2000, The Slow Discovery of Dineh-bi-Keyah: v. 37, no. 2 (April), p. 91-100, 9 figs.
- Matheny, J. P., and Picard, M. D., 1985, Sedimentology and depositional environments of the Emery Sandstone Member of the Mancos Shale, Emery and Sevier Counties, Utah: v. 22, no. 3 (July), p. 94-109, 25 figs.
- Matson, Roger M., and Schneider, Richard C., 1968, Oil and gas exploration in southeastern Colorado: v. 5, no. 3 (July), p. 89-94, 3 figs., 1 table.
- Matsukawa, Masaki, 2001, see Lockley and others, 2001.
- Matthews, Neffra A., and Breithaupt, Brent H., 2001, Close-range photogrammetric experiments at Dinosaur Ridge: vo. 38, no. 3, p. 147-153.
- Matthews, Vincent III, 1973, A reappraisal of the seismic-risk classification of Colorado: v. 10, no. 4 (October), p. 111-115, 2 figs.
- Matthews, Vincent, III, and Sherman, G. D., 1976, Origin of monoclinial folding near Livermore, Colorado: v. 13, no. 2 (April), p. 61-66, 9 figs.
- Matthews, Vincent, III, 1986a, A case for brittle deformation of the basement during the Laramide Revolution in the Rocky Mountain foreland province: v. 23, no. 1 (January), p. 1-5, 5 figs.

- Matthews, Vincent, III, 1986b, A case for brittle deformation of the basement during the Laramide Revolution in the Rocky Mountain foreland province-Reply: v. 23, no. 3 (July), p. 91-92.
- Matthews, Vincent, III, 1988, Reinterpretations of the relations between the Keystone, Red Spring, Contact, and Cottonwood faults; eastern Spring Mountains, Clark County, Nevada: v. 25, no. 4 (October), p. 181-191, 14 figs.
- Matthews, Vincent, III, 1989, Reinterpretations of the relations between the Keystone, Red Spring, Contact, and Cottonwood faults; eastern Spring Mountains, Clark County, Nevada-Reply: v. 26, no. 3 (July), p. 71-74, 4 figs.
- Matthews, Vincent, III, 2006, Discussion: On Illogical Interpretation of Geological Structures in the Rocky Mountain foreland Province: v. 43, no. 2 (April), p. 157-160, 1 fig.
- Matthews, Vincent, III, 2007, Testing Laramide Hypotheses for the Front Range Arch Using Minor Faults: Discussion: v. 44, no. 1 (January), p. 36-37, 1 fig.
- Mattioli, G. S., see Jansma and Mattioli, 1994.
- Mattox, S. R., and Weiss, M. P., 1987, Reactivation of a Cretaceous thrust surface by basin-and-range extension, southwestern Gunnison Plateau, central Utah: v. 24, no. 3 (July), p. 55-65, 6 figs.
- Matuszczak, R. A., 1969, Trinidad Sandstone interpreted, evaluated in Raton Basin, Colorado-New Mexico: v. 6, no. 3 (July), p. 119-124, 5 figs.
- Matuszczak, R. A., 1973, Wattenberg Field, Denver Basin, Colorado: v. 10, no. 3 (July), p. 99-105, 10 figs., 1 table.
- Mayer, Victor J., 1964, Stratigraphy and paleontology of the Mississippian formations of Moffat County, Colorado: v. 1, no. 1 (January), p. 25-34, 2 figs., 2 plates.
- McAllister, J. F., see Ross and McAllister, 1981.
- McCaleb, J. A., see Emmett and others, 1972.
- McCallum, M. E., 1968, Cenozoic history of the east-central Medicine Bow Mountains, Wyoming: v. 5, no. 2 (April), p. 69-81, 2 figs., 1 table, 2 plates.
- McCarthy, Kevin, see Bridges and McCarthy, 1990.
- McClain, Tony, and Norris, G. Earl, 2006, Case Study: Greater Wamsutter Field, Wyoming—Tight Gas Reservoir: v. 43, no. 3 (July), p. 195-200, 4 figs.
- McCubbin, Donald G., and Brady, Michael J., 1969, Depositional environment of the Almond reservoirs, Patrick Draw Field, Wyoming: v. 6, no. 1 (January), p. 3-26, 11 figs.
- McCubbin, Donald G., see also McGookey and others, 1970.
- McDermott, Robert W., see Kneller and others, 2006.

- McDowell, Ronald R., 1988, Middle Ordovician Kanosh Formation—Remaining source-rock potential?: v. 25, no. 4 (October), p. 141-157, 13 figs.
- McDowell, Robin John, 1998, Along-strike variations in structural geometry of thrust sheets in the Tendoy Mountains, southwestern Montana: v. 35, no. 1 (January), p. 31-40, 7 figs.
- McDowell, R. J., see also Thomas and others, 1996.
- McEachin, W. D., see Foster and others, 1968.
- McGookey, Donald P., Haun, J. D., Hale, Lyle A., Goodell, H. G., McCubbin, Donald G., Weimer, Robert J. and Wulf, George R., 1970, Correlation chart of Cretaceous formations: v. 7, no. 3 (July), 1 oversize sheet, inside back cover.
- McGregor, A. A., see Gary and McGregor, 1968.
- McGugan, Alan, see Lang and others, 1991.
- McGuire, R. K., Krusi, Alan, and Oaks, S. D., 1982, The Colorado earthquake of November 7, 1882—Size, epicentral location, intensities, and possible causative fault: v. 19, no. 1 (January), p. 11-23, 4 figs., 2 tables.
- McIntosh, William C., see Dallegge and others, 2003.
- McKenna, Malcolm C., see Lillegraven and McKenna, 2008.
- McKinstry, Brian, see Young and others, 2006.
- McPeck, Lawrence A., 1965, Dakota-Niobrara (Cretaceous) stratigraphy and regional relationships, El Vado area, Rio Arriba County, New Mexico: v. 2, no. 1 (January), p. 23-34, 3 figs.
- McWilliams, R. G., see Martin and others, 1992.
- Merewether, E. A., see Kirschbaum and others, 2009.
- Merewether, E. A., 1983, The Frontier Formation and mid-Cretaceous orogeny in the foreland of southwestern Wyoming: v. 20, no. 4 (October), p. 121-138, 13 figs., 1 table.
- Merewether, E. A., Cobban, W. A., and Cavanaugh, E. T., 1979, Frontier Formation and equivalent rocks in eastern Wyoming: v. 16, no. 3 (July), p. 67-102, 22 figs., 3 tables, 4 plates.
- Merin, I. S., and Lindholm, R. C., 1986, Evidence that the crystalline cores of uplifts adjacent to the Powder River Basin were breached during Paleocene time: v. 23, no. 4 (October), p. 128-131, 4 figs., 1 table.
- Merin, I. S., see also Segal and others, 1986.
- Metarko, T. A., see Hoholick and others, 1982.
- Mettler, Don E., 1966, West Moorcroft Dakota field, Crook County, Wyoming: v. 3, no. 2 (April), p. 89-92, 4 figs.

- M'Gonigle, John, 1982, Interfingering of the Frontier Formation and Aspen Shale, Cumberland Gap, Wyoming: v. 19, no. 2 (April), p. 59-61, 1 fig.
- M'Gonigle, J. W., and Dalrymple, G. B., 1993, $^{40}\text{Ar}/^{39}\text{Ar}$ ages of Challis volcanic rocks and the initiation of Tertiary sedimentary basins in southwestern Montana: v. 30, no. 4 (October), p. 112-118, 3 figs., 1 table.
- M'Gonigle, J. W., Dalrymple, G. B., and Holmes, C. W., 1995, Single-crystal $^{40}\text{Ar}/^{39}\text{Ar}$ ages for rocks in the lower part of the Frontier Formation (Upper Cretaceous), southwest Wyoming: v. 32, no. 2 (April), p. 47-53, 3 figs., 2 tables.
- Middleton, L. T., see Steidtmann and Middleton, 1986.
- Miller, M. L., see Mack and Miller, 1980.
- Millison, Clark, 1964, Paleoclimatology during Mesozoic time in the Rocky Mountain area: v. 1, no. 2 (April), p. 79-88, 7 figs.
- Millison, Clark, 1965, Powder Wash Field, Moffat County, Colorado: v. 2, no. 3 (July), p. 173-179, 3 figs., 1 table.
- Milner, Mary K., Johnson, Cari, and Bereskin, S. Robert, 2005, Interpretation of the Paleocene-Eocene Sequence Boundary, Northwest San Juan Basin, New Mexico: v. 42, no. 1 (January), p. 11-22, 10 figs.
- Mitchell, G. C., 1976, Grieve oil field, Wyoming—A Lower Cretaceous estuarine deposit: v. 13, no. 3 (July), p. 71-87, 23 figs., 1 table.
- Mitchell, G. C., 1985, The Permian-Triassic stratigraphy of the northwest Paradox Basin area, Emery, Garfield, and Wayne Counties, Utah: v. 22, no. 4 (October), p. 149-166, 22 figs.
- Mitchell, G. C., and Rogers, M. H., 1993, Extensional tectonic influence on Lower and Upper Cretaceous stratigraphy and reservoirs, southern Powder River Basin, Wyoming: v. 30, no. 2 (April), p. 54-69, 16 figs.
- Modreski, Peter J., 2001, Geochemical and mineralogical studies of dinosaur bone from the Morrison Formation at Dinosaur Ridge; v. 38, no. 3, p. 111-118.
- Mohorich, Leroy M., 1971, The role of geologic input in urban planning: v. 8, no. 4 (October), p. 209-219, 10 figs.
- Molenaar, C. M., see Hite and others, 1972.
- Molinaroli, Emanuela, see Basu and others, 1998.
- Monod, O., Ramirez, J., Faure, M., Sabanero, H., and Campa, M.F., 1992, Preliminary assessment of stratigraphy and structure, San Lucas region, Michoacan and Guerrero States, SW Mexico-Discussion: v. 29, no. 1 (January), p. 1-2, 1 fig.
- Montanez, Isabel P., see Isaacson and others, 2007.
- Montgomery, C. W., and Gray, B. A., 1989, Ages and Sr isotope systematics of Archean basement rocks from the south-central Beartooth Mountains: v. 26, no. 3 (July), p. 75-80, 4 figs., 1 table.

- Montgomery, E. B., see Kirk and others, 1982, 1983a, 1983b, 1984.
- Moore, F. E., see Trexler and Moore, 1972.
- Moore, Katherine D., Soreghan, Gerilyn S., and Sweet, Dustin E., 2008, Stratigraphic and Structural Relations in the Proximal Cutler Formation of the Paradox Basin: Implications for Timing of Movement on the Uncompahgre Front: v. 45, no. 2 (April), p. 49-68, 10 figs.
- Moore, W. R., 1975, Grain packing-porosity relationships of Minnelusa sandstones, Powder River Basin, Wyoming: v. 12, no. 2 (April), p. 45-53, 12 figs., 1 table.
- Moore, W. R., 1983, The nature of the Minnelusa-Opeche contact in the Halverson Field area, Powder River Basin, Wyoming: v. 20, no. 4 (October), p. 113-120, 15 figs.
- Moore, W. R., 1984, Hydrodynamic control on oil entrapment in channel sandstone, South Pole Creek Field, Converse County, Wyoming: v. 21, no. 3 (July), p. 105-113, 18 figs., 1 table.
- Morgan, Craig D., and Bereskin, S. Robert, 2003, Characterization of Petroleum Reservoirs in the Eocene Green River Formation, Central Uinta Basin, Utah: v. 40, no. 4 (October), p. 111-127, 17 figs.
- Morris, B. D., 1975, Cyclic sandstone facies in the Barker Creek substage, Paradox Basin, southwestern Colorado: v. 12, no. 3 (July), p. 93-101, 7 figs.
- Moslow, Thomas F., see Zaitlin and Moslow, 2006.
- Mountain Geologist*, 1966, Index to Volumes I (1964) and II (1965): v. 3, no. 1 (January), p. 49-54.
- Mountain Geologist*, 1967, Index to Volume III (1966) v. 4, no. 1 (January), p. 37-39.
- Mountain Geologist*, 1968, Index to Volume IV (1967) v. 5, no. 1 (January), p. 41-43.
- Mountain Geologist*, 1969, Index to Volume V (1968) v. 6, no. 1 (January), p. 53-55.
- Mountain Geologist*, 1970, Index to Volume VI (1969) v. 7, no. 1 (January), p. 65-68.
- Mountain Geologist*, 1971, Index to Volume VII (1970) v. 8, no. 1 (January), p. 39-44.
- Mountain Geologist*, 1972, Index to Volume VIII (1971) v. 9, no. 1 (January), p. 67-69.
- Mountain Geologist*, 1973, Index to Volume IX (1972) v. 10, no. 1 (January), p. 29-32.
- Mountain Geologist*, 1974, Index to Volume X (1973) v. 10, no. 4 (October), p. 135-136.
- Mountain Geologist*, 1975a, Index to Volume XI (1974) v. 11, no. 4 (October), p. 149-150.
- Mountain Geologist*, 1975b, Cumulative index, 1964-1974: v. 12, no. 1 (January), p. 1-44.
- Mountain Geologist*, 1975c, Index to Volume 12 (1975): v. 12, no. 4 (October), p. 133-134.

- Mountain Geologist*, 1976, Index to Volume 13 (1976): v. 13, no. 4 (October), p. 135-136.
- Mountain Geologist*, 1978a, Index to Volume 14 (1977): v. 15, no. 1 (January), p. 49-52.
- Mountain Geologist*, 1978b, Index to Volume 15 (1978): v. 15, no. 4 (October), p. 145-147.
- Mountain Geologist*, 1979, Index to Volume 16 (1979): v. 16, no. 4 (October), p. 139-140.
- Mountain Geologist*, 1980, Index to Volume 17 (1980): v. 17, no. 4 (October), p. 126-129.
- Mountain Geologist*, 1981, Index to Volume 18 (1981): v. 18, no. 4 (October), p. 114-117.
- Mountain Geologist*, 1982, Index to Volume 19 (1982): v. 19, no. 4 (October), p. 135-137.
- Mountain Geologist*, 1984, The Mountain Geologist index to Volumes 20 and 21 (1983 and 1984): v. 21, no. 4 (October), p. 165.
- Mountain Geologist*, 1987, List of authors and titles appearing in Volume 24 (1987) of *The Mountain Geologist*: v. 24, no. 4 (October), p. 123-124.
- Mountain Geologist*, 1999, Cumulative Bibliography and index to *The Mountain Geologist*, 1964 through 1998: v. 36, no. 1 (January), p. 1-56.
- Mountain Geologist*, 1999, A Bibliography of Rocky Mountain Oil and Gas Fields, Longman, Mark W., and Johnson, Michael S. eds.: v. 36, no. 3 (July), p. 99-199
- Mueller, P. A., Ragland, P. C., Ranson, W. A., and Burchfiel, B. C., 1979, High-K calc-alkaline plutonic rocks from southeastern California: v. 16, no. 4 (October), p. 105-115, 7 figs., 4 tables.
- Mulholland, J. W., and Kuryvial, R. J., 1992, Sequence boundaries—A proposed nomenclature for the Mesozoic and Cenozoic: v. 29, no. 3 (July), p. 71-74, 2 figs.
- Mulholland, J. W., 1994, Sequence stratigraphic correlation of well-log cross sections: v. 31, no. 3 (July), p. 65-75, 4 figs.
- Muncy, H. L., see Paylor and others, 1989.
- Munger, Robert D., 1965a, Structural geology of the Spread Eagle Peak area, Sangre de Cristo Mountains, Colorado: v. 2, no. 1 (January), p. 3-21, 11 figs., 2 plates.
- Munger, Robert D., 1965b, Subsurface exploration mapping, southern Uinta Basin, Castlegate and Dakota-Cedar Mountain Formations: v. 2, no. 3 (July), p. 141-166, 13 figs., 1 table.
- Murray, D. Keith, Chronic, John, De Voto, Richard H., and Madole, Richard F., 1968, Index of graduate theses and dissertations on Colorado geology by in-state institutions, 1905 through 1967: v. 5, no. 2 (April), p. 45-67, 1 plate on inside back cover.

- Murray, D. Keith, see also Foster and others, 1968.
- Murray, David F., 1967, Gravel mounds at Rocky Flats, Colorado: v. 4, no. 3 (July), p. 99-107, 3 figs.
- Murray, Michael, 1975, Late Precambrian volcanic rocks of the southern Front Range, Colorado—The Keeton Porphyry: v. 12, no. 4 (October), p. 127-132, 6 figs., 1 table.
- Nance, J. W., see Boos and Nance, 1970; Boos and others, 1970.
- Natali, Steve, Roux, Roy, Dea, Peter, and Barrett, Fred, 2000, Cave Gulch Field 3-D Survey, Wind River Basin, Wyoming: v. 37, no. 1 (January), p. 3-13, 16 figs.
- Nelson, Eric P., see Caine and others, 2006.
- Nelson, G. Allan, 2007, A Retrospective Look at the Weber Sand Pay in the Giant Rangely Field, Rio Blanco County, Colorado: v. 44, no. 3 (July), p. 151-153, 1 fig.
- Nelson, Karl R., 1971, The geology and geochemistry of the Poison Ridge intrusive center, Grand and Jackson Counties, Colorado: v. 8, no. 2 (April), p. 45-70, 24 figs.
- Nelson, Karl R., 1972, The use of multielement analysis and data processing in minerals exploration: v. 9, no. 1 (January), p. 41-53, 7 figs, 3 tables.
- Nelson, Philip H., 2002a, Subsurface Fluid Pressures from Drill-Stem Tests, Uinta Basin, Utah: v. 39, no. 1 (January), p. 17-26, 8 figs., 1 table.
- Nelson, Philip H., 2002b, A Review of the Multiwell Experiment in Tight Gas Sandstones of the Mesaverde Group, Piceance Basin, Colorado: v. 39, no. 3 (July), p. 53-71, 13 figs., 5 tables.
- Nelson, S. N., see Flemings and Nelson, 1991; Kluth and Nelson, 1988.
- Nesse, William D., 2006, Geometry and Tectonics of the Laramide Front Range, Colorado: v. 43, no. 1 (January), p. 25-44, 11 figs., 1 table, 1 plate.
- Netoff, Dennis Ivan, 1971, Polygonal jointing in sandstone near Boulder, Colorado: v. 8, no. 1 (January), p. 17-24, 11 figs., 1 table.
- Nettleton, W. D., and Chadwick, O. A., 1991, Soil-landscape relationships in the Wind River Basin, Wyoming, *in* Lang, H.R., Chadwick, O.A., and Paylor, E.D., II, eds., Report on the second workshop on geologic applications of remote sensing to the study of sedimentary basins: v. 28, nos. 2&3 (April/July), p. 3-11, 5 figs., 3 tables.
- Newman, Karl R., 1965a, Significance of algae in Waltman Shale Member of Fort Union Formation (Paleocene), Wyoming: v. 2, no. 2 (April), p. 79-84, 1 fig., 1 table.
- Newman, Karl R., 1965b, Mancos to Wasatch measured section in Meeker-Rio Blanco area, northwestern Colorado: v. 2, no. 3 (July), p. 135-139, 2 figs.
- Newton, William A., 1964, A geologic evaluation of the proposed Ruedi Dam and Reservoir, Eagle County, Colorado: v. 1, no. 2 (April), p. 73-77, 2 figs.
- Nichols, D. J., and Jacobson, S.R., 1982, Cretaceous biostratigraphy in the Wyoming Thrust Belt: v. 19, no. 3 (July), p. 7378, 3 figs.

- Nichols, Douglas J., 2009, On the Palynomorph-Based Biozones in Paleogene Strata of Rocky Mountain Basins: v. 46, no. 3 (July), p. 105-124, 6 figs.
- Nichols, Douglas J., and Flores, Romeo M., 2006, A New Reference Section for Palynostratigraphic Zonation of Paleocene Rocks in the Rocky Mountain Region: v. 43, no. 4 (October), p. 299-312, 4 figs., 8 tables.
- Nichols, D. J., see also Dyman and others, 1988; Tysdal and others, 1989.
- Nichols, T. C., Jr., Chleborad, A. F., and Collins, D. S., 1987, Government Draw bentonite beds—A newly identified stratigraphic marker in the Virgin Creek Member of the Pierre Shale, central South Dakota: v. 24, no. 3 (July), p. 77-80, 2 figs., 1 table.
- Nichols, T. C., Jr., see Collins and Nichols, 1987.
- Nishida, Debra K., see DuBois and others, 2006.
- Noblett, J. B., 1987, Geology of the Precambrian metamorphic rocks along South Hardscrabble Creek, Wet Mountains, Colorado: v. 24, no. 3 (July), p. 67-76, 13 figs., 3 tables.
- Nolte, Cliff J., 1967, The middle Vanguard Sandstone: A prolific Jurassic objective in southwestern Saskatchewan, Canada: v. 4, no. 2 (April), p. 41-51, 5 figs., 1 table.
- Norberg, Kori K., see Kelso and others, 2006.
- Norris, G. Earl, see McClain and Norris, 2006.
- Novotny, Milos M., and Sanford, William E., 2004, Groundwater Residence Time and Recharge Temperature Estimates of the Denver and Arapahoe Aquifers, Denver Basin, Colorado: v. 41, no. 4 (October), p. 161-167, 2 figs., 4 tables.
- Nuccio, V. F., Johnson, S. Y., and Schenk, C. J., 1989, Paleogeothermal gradients and timing of oil generation in the Belden Formation, Eagle Basin, northwestern Colorado: v. 26, no. 1 (January), p. 31-41, 6 figs., 2 tables.
- Nusbaum, R. L., and Grant, S. K., 1987, Alkali metasomatism and fossil geothermal activity-Wah Wah Springs Tuff, Utah: v. 24, no. 1 (January), p. 26-29, 3 figs., 2 tables.
- Nwangwu, Uka, 1977, Origin of phosphatic pebbles in Upper Cretaceous (Maestrichtian) rocks of the Colorado Front Range: v. 14, no. 2 (April), p. 47-52, 13 figs.
- Oaks, S. D., see McGuire and others, 1982.
- Oboh-Ikuenobe, F. E., see Scott and others, 2004.
- Obradovich, J. D., see Izett and Obradovich, 2001.
- Ochs, Steffen, and Chan, Marjorie, 1990, Petrology, sedimentology, and stratigraphic implications of the Black Dragon Member, Triassic Moenkopi Formation, San Rafael Swell, Utah: v. 27, no. 1 (January), p. 1-18, 22 figs., 1 table.

- Odien, Robert J., 1998, The Morrison Formation-Dakota Group contact along the northeastern flank of the Wet Mountains, Colorado: Evidence for reinterpretation of Lytle Formation thickness: v. 35, no. 1 (January), p. 1-14, 20 figs.
- Oldham, David W., 1997, Exploration for shallow compaction-induced gas accumulations in sandstones of the Fort Union Formation, Powder River Basin, Wyoming, *in* Curtis, J. B., ed., A special volume: Gas reservoirs in the Rocky Mountains: v. 34, no. 1 (January), p. 25-38, 18 figs.
- Olsen, Torben, 1995, Fluvial and fluvio-lacustrine facies and depositional environments of the Maastrichtian to Paleocene North Horn Formation, Price Canyon, Utah: v. 32, no. 2 (April), p. 27-44, 13 figs.
- Olson, Jerry C., and Marvin, Richard F., 1972, Rb-Sr whole rock age determinations of the Iron Hill and McClure Mountain carbonatite-alkalic complexes, Colorado: Discussion: v. 8, no. 4 (October), p. 221.
- Oriel, Steven S., see Armstrong and Oriel, 1965.
- Ort, Michael H., see Dallegge and others, 2003.
- Osmond, John C., 1966, The geology of Nevada—An exploration frontier (Abstract): v. 3, no. 1 (January), p. 47.
- Osmond, John C., see Longman and Johnson, eds., 1999.
- Osmond, John C., 2000, West Willow Creek Field: First Productive Lacustrine Stromatolite Mound in the Eocene Green River Formation, Uinta Basin, Utah: v. 37, no. 4 (October), p. 157-170, 13 figs., 1 table.
- Osmond, John C., 2003, History of Oil and Gas Exploration in the Uinta Basin, Utah: v. 40, no. 4 (October), p. 101-110, 6 figs., 1 table.
- Osmonson, L. M., see Armbrustmacher and others, 1979.
- O'Sullivan, Robert B., see Robertson and O'Sullivan, 2001a; Robertson and O'Sullivan, 2001b.
- Owen, Donald E., 1969, The Dakota Sandstone of the eastern San Juan and Chama Basins and its possible correlation across the southern Rocky Mountains: v. 6, no. 3 (July), p. 87-92, 2 figs., 1 table.
- Page, W.R., see Witkind and Page, 1984.
- Pampe, William R., 1973, Devonian dolomite distribution in Colorado: v. 10, no. 4 (October), p. 123-126, 1 figure, 2 plates.
- Panish, Peter T., see Hubert and Panish, 2000.
- Parker, John M., 1966, The Bridger Lake Field, Summit County, Utah: v. 3, no. 3 (July), p. 139-146, 6 figs.
- Parker, John M., and Ray, R. Randy, 2001, A Chronology of Seismic Exploration in the Rockies: An Update to Guide Us into the Year 2001 and Beyond: v. 38, no. 1 (January), p. 43-51, 5 figs.

- Parker, John M., and Bortz, Louis C., 2001, West Side Canal Gas Field, Carbon County, Wyoming & Moffat County, Colorado: v. 38, no. 4 (October), p. 211-224, 12 figs, 1 table.
- Parrish, J. M., see Dubiel and others, 1989.
- Parrott, Ken, see LeGrand and others, 2006.
- Pasternack, Ira, 2005, The Weimer Marker Bentonite—A Regionally Persistent Correlation Horizon within the Upper Cretaceous Lewis Shale, Eastern Greater Green River Basin, Wyoming and Colorado: v. 42, no. 2 (April), p. 67-83, 6 figs., 1 table.
- Patton, Jean, see Adams and Patton, 1979.
- Paull, Rachel I., and Paull, Richard A., 1998, Age and regional significance of marine Triassic rocks at O'Neil Pass, northeastern Nevada: v. 35, no. 3 (July), p. 103-113, 19 figs.
- Paull, Richard A., see Paull and Paull, 1998.
- Paylor, E. D., II, Muncy, H. L., Lang, H. R., Conel, J. E., and Adams, S.L., 1989, Testing some models of foreland deformation at the Thermopolis Anticline, southern Big Horn Basin, Wyoming: v. 26, no. 1 (January), p. 1-22, 20 figs., 1 table.
- Paylor, E.D., II, see Lang, Chadwick, and Paylor, 1991; Lang, Frerichs, and others, 1991.
- Pearl, Richard Howard, 1968, Quaternary geology of the Morrison quadrangle, Colorado: v. 5, no. 4 (October), p. 197-206, 2 figs.
- Pearl, Richard Howard, 1971, Pliocene drainage of east-central Colorado and northwestern Kansas: vo. 8, no. 1 (January), p. 25-30, 5 figs.
- Pedersen, Per Kent, and Steel, Ron, 1999, Sequence Stratigraphy and Alluvial Architecture of the Upper Cretaceous Ericson Sandstone, Glades-Clay Basin Area, Wyoming/Utah Border: v. 36, no. 2 (April), p. 71-83, 11 figs.
- Pekarek, A.H., 1988, Structural geology and petroleum potential of Long Valley, White Pine County, Nevada: v. 25, no. 4 (October), p. 171-180, 11 figs.
- Pekarek, Alfred H., 2005, Structure, Stratigraphy, and Hydrocarbon Potential of Butte Valley, White Pine County, Nevada: v. 42, no. 4 (October), p. 187-201, 6 figs., 1 table.
- Penttila, William C., 1964, Evidence for the pre-Niobrara unconformity in the northwestern part of the San Juan Basin: v. 1, no. 1 (January), p. 3-14, 6 figs.
- Perman, R. C., 1987, Deltaic deposits of the Upper Cretaceous Dad Sandstone Member of the Lewis Shale, south-central Wyoming: v. 24, no. 1 (January), p. 10-18, 9 figs.
- Perry, W. J., Jr., 1986, Selected bibliography, Montana thrust faulted terranes (including east-central Idaho): v. 23, no. 3 (July), p. 98-106, 1 fig.
- Perry, William J., see Kirkham and others, 2001.

- Perry, W. J., Jr., see also Dyman and others, 1988.
- Peterman, Z. E., see Braddock and Peterman, 1989.
- Peterson, J. A., see Hite and others, 1972.
- Petty, David M., 2003, Sequence Stratigraphy of the Pahasapa Formation (Madison Group) in the Northeastern Black Hills: Insights from Regional Correlations: v. 40, no. 2 (April), p. 19-34, 11 figs., 1 appendix.
- Petty, David M., 2006, Stratigraphic Development of the Madison Paleokarst in the Southern Williston Basin Area: v. 43, no. 4 (October), p. 263-281, 13 figs.
- Picard, M. Dane, see High and Picard, 1967; Matheny and Picard, 1985; Van Deventer and Picard, 1975, 1979.
- Pickering, L. A., and Indelicato, G. J., 1985, Abnormal formation pressure-A review: v. 22, no. 2 (April), p. 78-89, 23 figs.
- Pietraszek, S. R., see Slatt and others, 1995.
- Pillmore, C. L., 1969, Geology and coal deposits of the Raton coal field, Colfax County, New Mexico: v. 6, no. 3 (July), p. 125-142, 13 figs., 2 tables.
- Piombino, Joe, see Dolson and others, 1993.
- Pitblado, Bonnie L., see Stamm and others, 2004.
- Pitman, Janet K., Donnell, John R., Van Trump, George, and Roberts, Margaret, 1972, A general description of two computer programs for oil-shale resource appraisal of the Green River Formation: v. 9, no. 4 (October), p. 393-398, 1 fig., 1 table.
- Plant, W. S., Jr., Volk, Richard W., and Vredenburgh, Larry D., 1971, Brandon Field, Kiowa County, Colorado: v. 8, no. 4 (October), p. 189-198, 6 figs., 1 table.
- Pollastro, R. M., and Martinez, C. J., 1985, Mineral, chemical, and textural relationships in rhythmic-bedded, hydrocarbon-productive chalk of the Niobrara Formation, Denver Basin, Colorado: v. 22, no. 2 (April), p. 55-63, 10 figs., 3 tables.
- Pope, Jerry, see Longman and others, 2003.
- Pope, Michael C., see Abplanalp and others, 2009; Archuletta and others, 2006; Isaacson and others, 2007; .
- Potter, P. E., see Hoholick and others, 1982.
- Powell, J. Dan, see Kauffman and others, 1969.
- Pratt, Timothy J., see Lamarre and Pratt, 2002.
- Pritchett, F. L., Jr., see Sahl and others, 1993.
- Pritchett, R. W., 1994, Prosperity and land in Colorado-Front Range Urban Corridor: v. 31, no. 4 (October), p. 119-127, 5 figs., 2 tables.
- Pulfrey, Robert J., see Thompson and Pulfrey, 1973.

- Rackley, Ruffin I., 1972, Environment of Wyoming Tertiary uranium deposits: v. 9, no. 2-3 (April-July), p. 143-157, 10 figs.
- Ragland, P. C., see Mueller and others, 1979.
- Rahn, P. H., see Gates and Rahn, 1986.
- Ramirez, J., see Monod and others, 1992. Ramirez L., Miguel, 1974, Stratigraphy of the Mississippian system, Las Animas Arch, Colorado: v. 11, no. 1 (January), p. 1-32, 32 figs., 4 plates.
- Randall, Arthur G., 1965, Geologic dating of selected archaeological sites in the Rocky Mountain Region: v. 2, no. 1 (January), p. 35-41, 3 figs., 1 table.
- Ranson, W. A., see Mueller and others, 1979.
- Rascoe, Bailey, Jr., 1968, Permian system in western Mid-Continent: v. 5, no. 3 (July), p. 127-138, 9 figs.
- Rasmussen, D. T., see Townsend and others, 2006.
- Ratliff, R., see Geiser and others, 1988.
- Raup, Omer B., 1972, Bromine distribution in some halite rocks of the Paradox Member, Hermosa Formation, in Utah: v. 9, nos. 2-3 (April-July), p. 345-354, 6 figs.
- Raup, Omer B., see also Hite and others, 1972.
- Ray, R. Randy, and Longman, Mark W., eds., 2000, A special issue on 3-D Seismic Success Stories in the Rocky Mountain Region: v. 37, no. 1 (January), p. 1-62
- Raymond, Lon, see Boos and others, 1970.
- Raynolds, Robert G., 2004, Stratigraphy and Water Levels in the Arapahoe Aquifer, Douglas County Area, Denver Basin, Colorado: v. 41, no. 4 (October), p. 195-210, 18 figs.
- Reade, H. L., Jr., 1976, Grover uranium deposit-A case history of uranium exploration in the Denver Basin, Colorado: v. 13, no.1 (January), p. 21-31, 6 figs.
- Reed, Jason M., see Evans and Reed, 2006.
- Reed, John C., Jr., see Zartman and Reed, 1998.
- Reeves, C. C., Jr., 1964, New Cambrian, Ordovician, Devonian, and Mississippian measured sections, west flank Teton Mountains, Wyoming: v. 1, no. 4 (October), p. 213-225, 11 figs.
- Reheis, M. C., 1980, Loess sources and loessial soil changes on a downwind transect, Boulder-Lafayette area, Colorado: v. 17, no. 1 (January), p. 7-12, 4 figs.
- Reid, Fred, see Boos and others, 1970
- Reinert, S. L., and Davies, D. K., 1976, Third Creek Field, Colorado-A study of sandstone environments and diagenesis: v. 13, no. 2 (April), p. 47-60, 14 figs., 3 tables.

- Reinking, R. L., and Hoeksema, Richard, 1980, Time of superposition of the Arkansas River, Chaffee County, Colorado: v. 17, no. 1 (January), p. 1-6, 6 figs., 1 table.
- Requist, Norris, see Bolyard and others, 1968; Mark and Requist, 1969a, 1969b.
- Reuss, Robert L., 1974, Precambrian quartzite-schist sequence in Wilson Park, Fremont County, Colorado: v. 11, no. 2 (April), p. 45-58a, 10 figs., 3 tables.
- Rhodes, Meredith K., Malone, David H., Carroll, Alan R., and Smith, Elliot M., 2007, Sudden Desiccation of Lake Gosiute at -49 Ma: A Downstream Record of Heart Mountain Faulting?: v. 44, no. 1 (January), p. 1-10, 6 figs.
- Ridgway, Kenneth E., see Hoy, 1998.
- Riecker, R. E., and Rooney, T. P., 1966, Evidence bearing on deep earthquake origin: weakening of olivine by serpentine dehydration: v. 3, no. 1 (January), p. 43-46, 4 figs.
- Ritzma, H. R., and Kaliser, B. N., 1977, The geology between Salt Lake City and Coalville, Utah-A road log, *in* Kauffman, E.G., ed., Cretaceous facies, faunas, and paleoenvironments across the Western Interior basin—Field guide: v. 14, nos. 3&4 (July-October), p. 101-103.
- Ritzma, Howard R., 1965, Piceance Creek Sandstone, basal Green River sandstone tongue, northeast Piceance Creek Basin, Colorado: v. 2, no. 3 (July), p. 103-107, 2 figs.
- Roberts, Laura N. R., Lewan, Michael D., and Finn, Thomas M., 2004, Timing of Oil and Gas Generation of Petroleum Systems in the Southwestern Wyoming Province: v.41, no. 3 (July), p. 87-118, 13 figs., 6 tables.
- Roberts, Laura N. R., see Higley and others, 2005.
- Roberts, Margaret, see Pitman and others, 1972.
- Robertson, Jacques F., and O'Sullivan, Robert B., 2001a, The Middle Jurassic Entrada Sandstone near Gallup, New Mexico: v. 38, no. 2 (April), p. 53-69, 8 figs.
- Robertson, Jacques F., and O'Sullivan, Robert B., 2001b, The Middle Jurassic Entrada Sandstone Near Gallup, New Mexico: Reply: v. 38, no. 4 (October), 228-331, 2 figs.
- Robertson, R. D., 1984, Haybarn Field, Fremont County, Wyoming-An upper Fort Union (Paleocene) stratigraphic trap: v. 21, no. 2 (April), p. 47-56, 16 figs., 2 tables.
- Robinson, John W., see Longman and Johnson, eds., 1999.
- Robinson, John W., 2000, Discovery of Jonah Field, Sublette County, Wyoming: v. 37, no. 3 (July), p. 135-143, 8 figs.
- Robinson, L. N., and Barnum, B. E., 1986, Southeastern extension of the Lake Basin Fault Zone in south-central Montana - Implications for coal and hydrocarbon exploration: v. 23, no. 2 (April), p. 37-44, 7 figs., 1 table.

- Rogers, James P., 1971, Tidal sedimentation and its bearing on reservoir and trap in Permian Phosphoria strata, Cottonwood Creek Field, Big Horn Basin, Wyoming: v. 8, no. 2 (April), p. 71-80, 13 figs.
- Rogers, James P., 1975, Genesis and distribution of the Des Moines (Pennsylvanian) sandstone reservoir, Sleepy Hollow Field, Red Willow County, Nebraska: v. 12, no. 3 (July), p. 75-92, 28 figs.
- Rogers, James P., Longman, M. W., and Lloyd, R. M., 1995, Spiculitic chert reservoir in Glick Field, south-central Kansas: v. 32, no. 1 (January), p. 1-22, 15 figs.
- Rogers, James P., see Longman and Johnson, eds., 1999.
- Rogers, M. H., see Mitchell and Rogers, 1993.
- Rooney, T. P., see Riecker and Rooney, 1966.
- Ross, John S., see Shelton and Ross, 1971.
- Ross, R. J., Jr., and McAllister, J. F., 1981, Steeply inclined stromatolite columns in upper Tertiary Furnace Creek Formation, Death Valley, California: v. 18, no. 3 (July), p. 58-62, 8 figs.
- Rowan, M., see Geiser and others, 1988.
- Roybal, G. H., 1981, Facies development in a Lower Cretaceous coral-rudist patch reef (Mural Limestone, southeast Arizona): v. 18, no. 3 (July), p. 46-56, 13 figs.
- Royse, Frank Jr., 1996, Detachment fold train, Reed Wash area, west flank San Rafael Swell, Utah: an example of a limb lengthening, roll-through folding process on the eastern margin of the Sevier Thrust Belt: v. 33, no. 2 (April), p. 45-64, 25 figs.
- Ruth, M. D., see Segal and others, 1986.
- Roux, Peter, see Natali and others, 2000.
- Ryer, T. A., 1976, Cretaceous invertebrate faunal assemblages of the Frontier and Aspen Formations, Coalville and Rockport areas, north-central Utah: v. 13, no. 3 (July), p. 101-114, 9 figs.
- Ryer, T. A., 1977, Coalville and Rockport areas, Utah, *in* Kauffman, E.G., ed., Cretaceous facies, faunas, and paleoenvironments across the Western Interior basin—Field guide: v. 14, nos. 3&4 (July-October), p. 105-128, 18 figs., 1 table.
- Sabanero, H., see Monod and others, 1992.
- Sable, E. G., see Swetland and others, 1978.
- Sahl, H. L., Pritchett, F. L., Jr., and Loeffler, P. T., 1993, Kleinholz Paleozoic field study: v. 30, no. 3 (July), p. 81-94, 13 figs.
- Salat, T. S., and Steidtmann, J. R., 1991, Provenance, dispersal, and tectonic significance of the Evanston Formation and Sublette Range Conglomerate, Idaho-Wyoming-Utah Thrust Belt: v. 28, no. 1 (January), p. 25-36, 8 figs.

- Salotti, Charles A. and Fouts, James A., 1964, Orbicule formation through intrusive brecciation and compositional reorganization: v. 1, no. 4 (October), p. 203-212, 6 figs., 3 tables.
- Salotti, C. A., see also Heinrich and Salotti, 1975.
- Sanborn, Albert F. and Goodwin, James C., 1965, Green River Formation at Raven Ridge, Uintah County, Utah: v. 2, no. 3 (July), p. 109-114, 3 figs.
- Sanderson, G. A., and Verville, G. J., 1990, Fusulinid zonation of the General Petroleum No. 45-5-G core, Emery County, Utah: v. 27, no. 4 (October), p. 131-136, 6 figs.
- Sanderson, G. A., see also Loope and others, 1990; Verville and others, 1990.
- Sanderson, I. D., 1984, The Mount Watson Formation, an interpreted braided-fluvial deposit in the Uinta Mountain Group (upper Precambrian), Utah: v. 21, no. 4 (October), p. 157-164, 5 figs.
- Sanderson, I. D., and Wiley, M. T., 1986, The Jesse Ewing Canyon Formation, an interpreted alluvial fan deposit in the basal Uinta Mountain Group (Middle Proterozoic), Utah: v. 23, no. 3 (July), p. 77-89, 10 figs.
- Sanford, William E., see Novotny and Sanford, 2004.
- Sawatzky, Don L., 1964, Structural geology of southeastern South Park, Park County, Colorado: v. 1, no. 3 (July), p. 133-139, 2 plates.
- Sawatzky, Don L., 1972, Structural geology of southeastern South Park: v. 9, nos. 2-3 (April/July), p. 223-228, 2 plates.
- Schalla, R. A., and Benedetto, K. M., 1991, Early and Middle Devonian shelf-slope transition, southern Mahogany Hills, Eureka County, Nevada: v. 28, no. 4 (October), p. 13-22, 7 figs.
- Schavran, Gabrielle, 1985, Structural features in the Huerfano Park area, east flank, Sangre de Cristo Range, Colorado: v. 22, no. 1 (January), p. 33-39, 6 figs.
- Schenk, C. J., Schmoker, J. W., and Fox, J. E., 1993, Sedimentology of Permian upper part of the Minnelusa Formation, eastern Powder River Basin, Wyoming, and a comparison to the subsurface: v. 30, no. 2 (April), p. 71-80, 12 figs.
- Schenk, C. J., see also Nuccio and others, 1989; Schmoker and Schenk, 1988.
- Schillawski, Richard D., 2009, A Short History of Mining in Colorado's Boulder-Weld Coal Field: v. 46, no. 1 (January), p. 1-11, 8 figs.
- Schleh, E. E., 1968, Some general problems in regional stratigraphic integration of Mississippian strata in the Cordilleran region: v. 5, no. 4 (October), p. 181-186.
- Schmidt, Christopher J., see Clary and others, 2004.
- Schmitt, J. G., 1985, Synorogenic sedimentation of Upper Cretaceous Frontier Formation conglomerates and associated strata, Wyoming-Idaho-Utah Thrust Belt: v. 22, no. 1 (January), p. 5-16, 19 figs.

- Schmitt, J. G., and Hazen, D. R., 1987, Sedimentation of the Late Triassic Higham Grit in a south Saskatchewan/Platte River-type braided stream complex, southeastern Idaho and western Wyoming: v. 24, no. 1 (January), p. 1-9, 13 figs.
- Schmitt, J. G., see also Bibler and Schmitt, 1986.
- Schmoker, J. W., and Schenk, C. J., 1988, Facies composition calculated from the sonic, neutron, and density log suite, upper part of the Minnelusa Formation, Powder River Basin, Wyoming: v. 25, no. 3 (July), p. 103-112, 9 figs., 1 table.
- Schmoker, J. W., and Travisano, Jeanne, 1993, Summary of *The Mountain Geologist* reader survey: v. 30, no. 1 (January), p. 1-3, 6 figs.
- Schmoker, James W., 1996, A resource evaluation of the Bakken Formation (Upper Devonian and Lower Mississippian) continuous oil accumulation, Williston Basin, North Dakota and Montana: v. 33, no. 1 (January), p. 1-10, 9 figs.
- Schmoker, James W., Fouch, Thomas D., and Charpentier, Ronald R., 1996, Gas in the Uinta Basin, Utah—resources in continuous accumulations: v. 33, no. 4 (October), p. 95-104, 7 figs., 1 table.
- Schmoker, J. W., see also Schenk and others, 1993.
- Schmude, David C., 2000, Interplay of Paleostucture, Sedimentation and Preservation of Middle Jurassic Rocks, Big Horn Basin, Wyoming: v. 37, no. 4 (October), p. 145-155, 9 figs.
- Schneider, Richard C., see Matson and Schneider, 1968.
- Schultz-Ela, D. D., see Laubach and others, 1993.
- Schwochow, S. D., 1992, Cumulative bibliography and index to *The Mountain Geologist*, 1975 through 1991: v. 29, no. 4 (October), p. 100-130.
- Schwochow, S. D., 1993, Bibliography and index to *The Mountain Geologist*, 1992: v. 30, no. 1 (January), p. 35-37.
- Schwochow, S. D., 1994, Bibliography and index to *The Mountain Geologist*, 1993: v. 31, no. 2 (April), p. 61-64.
- Schwochow, S. D., 1995, Bibliography and index to *The Mountain Geologist*, 1994: v. 32, no. 1 (January), p. 23-25.
- Schwochow, S. D., 1996, Bibliography and index to *The Mountain Geologist*, 1995: v. 33, no. 1 (January), p. 31-33.
- Scobey, Warren B., 1964, Bijou Field channel sandstone, Morgan County, Colorado: v. 1, no. 2 (April), p. 55-57, 2 figs.
- Scopel, Louis J., 1964, Pressure injection disposal well, Rocky Mountain Arsenal, Denver, Colorado: v. 1, no. 1 (January), p. 35-42, 7 figs.
- Scott, A. R., see Tyler and others, 1997.
- Scott, G. R., see Calkin and others, 1972; Kauffman and others, 1977.

- Scott, R. W., 1977, Early Cretaceous environments and paleocommunities in the southern Western Interior (part 2), road log, fifth day, second part-Lower Cretaceous nearshore facies and communities, *in* Kauffman, E. G., ed., Cretaceous facies, faunas, and paleoenvironments across the Western Interior basin—Field guide: v. 14, nos. 3&4 (July-October), p. 219-223, 2 figs.
- Scott, R. W., and Taylor, W. A., 1977, Early Cretaceous environments and paleocommunities in the southern Western Interior, *in* Kauffman, E. G., ed., Cretaceous facies, faunas, and paleoenvironments across the Western Interior basin—Field guide: 14, nos. 3&4 (July-October), p. 155-173, 10 figs., 1 table.
- Scott, R. W., Holbrook, J. M., Oboh-Ikuenobe, F. E., Evetts, M. J., Benson, D. G., and Kues, B. S., 2004, Middle Cretaceous Stratigraphy, Southern Western Interior Seaway, New Mexico and Oklahoma: v. 41, no.2 (April), p. 33-61, 15 figs., 2 tables, 2 appendices.
- Seeling, Alan, 1978, The Shannon Sandstone, a further look at the environment of deposition at Heldt Draw Field, Wyoming: v. 15, no. 4 (October), p. 133-144, 13 figs.
- Segal, D. B., Ruth, M.D., and Merin, I. S., 1986, Remote detection of anomalous mineralogy associated with hydrocarbon production, Lisbon Valley, Utah: v. 23, no. 2 (April), p. 51-62, 9 figs., 4 tables.
- SEPM Field Trip 1, 1972, Environments of sandstone deposition, Colorado Front Range : v. 9, no. 2-3 (April-July), p. 239 (overview).
- SEPM Field Trip 2 Road Log, 1972, Carbonate and evaporite facies of the Paradox Basin: v. 9, no. 2-3 (April-July), p. 299, 1 map, 1 stratigraphic column.
- Shaw, A. B., 1977, A review of some aspects of evaporite deposition: v. 14, no. 1 (January), p. 1-16, 7 figs.
- Shawe, Daniel R., Steven, Thomas A., and Knepper, Daniel H., Jr., 2008, Possible Young Faulting in the Piedmont of North-Central Colorado: v. 45, no. 1, p 1-19, 11 figs.
- Shearer, Sarah E., see Kneller and others, 2006.
- Sheldon, Richard P., 1967, Long-distance migration of oil in Wyoming: v. 4, no. 2 (April), p. 53-65, 12 figs.
- Shelton, John W. and Ross, John S., 1971, Graphic analysis of basin and uplifts: v. 8, no. 4 (October), p. 183-187, 2 figs.
- Shenk, John C., 1971, Cedar Valley Field, Scotts Bluff County, Nebraska: v. 8, no. 3 (July), p. 133-139, 5 figs.
- Sherman, G. D., see Matthews and Sherman, 1976.
- Sherman, Greg D., 2009, Mine Subsidence Assessment, Boulder-Weld Coal Field, Using British National Coal Board Methods: v. 46, no., 1 (January), p. 27-36, 5 figs., 2 tables.

- Shewmake, Daniel W., see Estes-Jackson and others, 2000.
- Sholes, M. A., and Cole, G. A., 1981, Depositional history and correlation problems of the Anderson-Dietz coal zone, southeastern Montana: v. 18, no. 2 (April), p. 35-45, 10 figs.
- Showalter, P. K., see Grannell and Showalter, 1991.
- Siems, Peter L., 1964, Correlation of Tertiary strata in mountain basins, southern Colorado and northern New Mexico: v. 1, no. 3 (July), p. 161-180, 1 fig., 5 tables.
- Siguaw, Steven G., see Estes-Jackson and others, 2000.
- Sikich, Steve W., 1965, Upper Triassic stratigraphy in the eastern Uinta Mountains: v. 2, no. 3 (July), p. 167-172, 2 figs.
- Silverman, M. R., 1988, Petroleum geology, paleotectonics, and sedimentation of the Scotts Bluff trend, northeastern Denver Basin: v. 25, no. 3 (July), p. 87-101, 17 figs.
- Sinclair, William F., 1964, Geology of the Quartz Creek Anticline, Mineral and Archuleta Counties, Colorado: v. 1, no. 2 (April), p. 67-72, 2 figs.
- Sivils, David J., and Johnson, D. B., 2000, Stratigraphy, Sedimentation and Cyclicity of the Paradise Formation (Late Mississippian), Big Hatchet Mountains, Southwestern New Mexico: v. 37, no. 4 (October), p. 171-184, 10 figs.
- Slatt, R. M., Borer, J. M., Horn, B. W., Al-Siyabi, H. A., and Pietraszek, S. R., 1995, Outcrop gamma-ray logging applied to subsurface petroleum geology: v. 32, no. 4 (October), p. 81-94, 17 figs.
- Slatt, R. M., see also Al-Raisi and others, 1996.
- Smith, G. A., 1983, Porosity dependence of deformation bands in the Entrada Sandstone, La Plata County, Colorado: v. 20, no. 3 (July), p. 82-85, 4 figs.
- Smith, R. K., and Marsh, Antony J., 1998, The Oligocene Little Cottonwood Stock, central Wasatch Mountains—An example of compositional zoning by side-wall fractional crystallization of an arc-related intrusion—Reply: v. 35, no. 1 (January), p. 42.
- Smith, R. K., see also Marsh and Smith, 1997.
- Smith, T. M., and Dorobek, S. L., 1989, Dolomitization of the Devonian Jefferson Formation, south-central Montana: v. 26, no. 3 (July), p. 81-96, 11 figs., 1 table.
- Smith, Elliot M., see Rhodes and others, 2007.
- Smuin, D. R., 1990, Geology and hydrology of the shallow alluvial aquifer, West Sharrard Gulch, Colorado: v. 27, no. 4 (October), p. 107-118, 7 figs., 1 table.
- Snoke, A. W., see Bergh and Snoke, 1992.
- Snow, C. Bruce, 1970, Stratigraphy of basal sandstones in the Green River Formation, northeast Piceance Basin, Rio Blanco County, Colorado: v. 7, no. 1 (January), p. 3-32, 8 figs., 4 plates.

- Snow, David T., 1973, Mountain groundwater supplies: v. 10, no. 1 (January), p. 19-24, 1 fig.
- Snyder, D. O., see Woodward and others, 1978.
- Sonnenberg, S. A., 1982, The Lanyard Field, a structural-stratigraphic trap, Denver Basin, Colorado: v. 19, no. 3 (July), p. 62-72, 15 figs.
- Sonnenberg, S. A., 1984, The Pierce Field structure: v. 21, no. 1 (January), p. 1-4, 5 figs.
- Sonnenberg, S. A., 1985, Tectonic and sedimentation model for Morrow Sandstone deposition, Sorrento Field area, Denver Basin, Colorado: v. 22, no. 4 (October), p. 180-191, 18 figs.
- Sonnenberg, Stephen A., 2005, Dedication to Bob Weimer: v. 42, no. 2 (April), p. ii.
- Sonnenberg, S.A., and Weimer, R.J., 1993, Oil production from Niobrara Formation, Silo Field, Wyoming-Fracturing associated with a possible wrench fault system (?): v. 30, no. 2 (April), p. 39-53, 17 figs.
- Sorauf, J. E., and Billingsley, G. H., 1991, Members of the Toroweap and Kaibab Formations, Lower Permian, northern Arizona and southwestern Utah: v. 28, no. 1 (January), p. 924, 8 figs., 2 tables.
- Soreghan, Gerilyn, see Moore and others, 2008.
- Spang, J. H., Evans, J. P., and Berg, R. R., 1985, Balanced cross sections of small fold-thrust structures: v. 22, no. 2 (April), p. 41-46, 7 figs.
- Spang, J. H., see also Hennings and Spang, 1987.
- Spencer, C. W., see Law and others, 1980.
- Stamm, John F., Pitblado, Bonnie L., and Camp, Beth Ann, 2004, The Geology and Soils of the Chance Gulch Archaeological Site near Gunnison, Colorado: v. 41, no. 2 (April), p. 63-74, 11 figs., 1 table.
- Stancel, Steven G., see Cuzella and Stancel, 2006.
- Stanescio, J. D., 1991, Sedimentology and cyclicity in the Lower Permian De Chelly Sandstone on the Defiance Plateau, eastern Arizona: v. 28, no. 4 (October), p. 2-11, 7 figs., 1 table.
- Stapor, Frank W., Jr., 1972, Origin of the Todilto gypsum mounds in the Ghost Ranch area, north central New Mexico: v. 9, no. 1 (January), p. 59-63, 6 figs.
- Stark, Marilyn, see Kirk and others, 1983b, 1984.
- Steel, Ron, see Pedersen and Steel, 1999. Steidtmann, J. R., and Middleton, L. T., 1986, Eocene-Pliocene stratigraphy along the southern margin of the Wind River Range, Wyoming-Revisions and implications from field and fission-track studies: v. 23, no. 1 (January), p. 19-25, 4 figs., 2 tables.
- Steidtmann, J. R., see also Coughlan and Steidtmann, 1984; Hurst and Steidtmann, 1986; Salat and Steidtmann, 1991 and Leier and Steidtmann, 2009..

- Steinshouer, Douglas W., see Higley and others, 2005.
- Stenberg, Eric, Doll, Tom, 2006, A Review of the Powder River Basin Coalbed Methane Play: v. 43, no. 3 (July), p. 247-250, 3 figs.
- Stensrud, Howard L., see Gresens and Stensrud, 1974.
- Sterne, Edward J. (Ned), 2006, Stacked, "Evolved" Triangle Zones Along the Southeastern Flank of the Colorado Front Range: v. 43, no. 1 (January), p. 65-92, 21 figs.
- Steven, Thomas A., see Shawe and others, 2008. Stevens, Calvin H., 1965, Faunal trends in near-shore Pennsylvanian deposits near McCoy, Colorado: v. 2, no. 2 (April), p. 71-77, 9 figs.
- Stevenson, G. M., see Baars and Stevenson, 1984.
- Stewart, Joseph D., see Kelso and others, 2006.
- Stoddard, John, 1968, Brandon Field, Kiowa County, Colorado: v. 5, no. 3 (July), p. 139-152, 7 figs.
- Stone, Donald S., 1966, Geologic and economic evaluation of the Laramie-eastern Hanna Basin area, Wyoming: v. 3, no. 2 (April), p. 55-73, 17 figs., 4 tables.
- Stone, Donald S., 1969, Wrench faulting and Rocky Mountain tectonics: v. 6, no. 2 (April), p. 67-79, 5 figs, 1 table, 1 plate (Tectonic sketch map of the central Rocky Mountains).
- Stone, Donald S., 1970, Principal horizontal stress in the central Rocky Mountains versus California: v. 7, no 2 (April), p. 69-82, 9 figs.
- Stone, Donald S., 1972, Paleozoic oil accumulations in Wyoming: Discussion: v. 9, no. 1 (January), p. 65-66.
- Stone, Donald S., 1983, Detachment thrust faulting in the Reed Point syncline, south-central Montana: v. 20, no. 4 (October), p. 107-112, 6 figs.
- Stone, Donald S., 1984a, The Rattlesnake Mountain, Wyoming debate-A review and critique of models: v. 21, no. 2 (April), p. 37-46, 7 figs.
- Stone, Donald S., 1984b, Structure along the Arlington Fault Zone, Pass Creek area, southern Hanna Basin, Wyoming: v. 21, no. 3 (July), p. 77-84, 8 figs.
- Stone, Donald S., 1985, Quealy Dome, a Rocky Mountain foreland structural trap oil field—Comment: v. 22, no. 1 (January), p. 1-3, 1 fig.
- Stone, Donald S., 1987, A wrench fault/thrust-fold clay model study and comparison with the Bonanza-Zeisman area of the eastern Big Horn Basin: v. 24, no. 4 (October), p. 87-94, 6 figs.
- Stone, Donald S., 1994, New geochemical data bearing on the source of the oils in Wilson Creek Field, northwest Colorado: v. 31, no. 4 (October), p. 115-118, 5 figs., 1 table.

- Stone, Donald S., 1997, Sample from Wild Cow Formation, Abo Pass, New Mexico: "Geoquiz" answers: v. 34, no. 3 (July), p. 117-120, 3 figs.
- Stone, Donald S., 1999, Cloud Creek: A Possible Impact Structure on the Casper Arch, Wyoming: v. 36, no. 4, (October), p. 212-234, 17 figs., 2 tables.
- Stone, Donald S., 2002, Structure of the Rex Lake Oil Field, Albany County, Wyoming: v. 39, no. 2 (April), p. 31-39, 7 figs.
- Stone, Donald S., 2004a, Rio Thrusting, Multi-Stage Migration, and Formation of vertically Segregated Paleozoic Oil Pools at Torchlight Field on the Greybull Platform (Eastern Bighorn Basin): Implications for Exploration: v. 41, no. 3 (July), p. 119-138, 15 figs.
- Stone, Donald S., 2004b, Structures of the Rocky Mountain Foreland: Fivemile Fault-Related Fold Trend, Central Bighorn Basin: v. 41, no. 3 (July), p. 140-142, 2 figs.
- Stone, Donald S., 2005a, Structures of the Rocky Mountain Foreland: Dutton Creek-Cooper Cove Anticlinal Complex, Western Laramie Basin: v. 42, no. 1 (January), p. 35-39, 4 figs.
- Stone, Donald S., 2005b, On Illogical Interpretation of Geological Structures in the Rocky Mountain Foreland Province: v. 42, no. 4 (October), p. 159-186, 17 figs.
- Stone, D. S., 2006a, Structures of the Rocky Mountain Forelands: Salt Creek Field, A Prototypical Basement-Involved Thrust-Generated Fold: v. 43, no. 2 (April), p. 145-156, 10 figs.
- Stone, D. S., 2006b, Reply: On Illogical Interpretation of Geological Structures in the Rocky Mountain Foreland Province: v. 43, no. 2 (April), p. 161-169, 8 figs.
- Stone, William D., 1972, Stratigraphy and exploration of the Lower Cretaceous Muddy Formation, northern Powder River Basin, Wyoming and Montana: v. 9, no. 4 (October), p. 355-378, 19 figs., 1 table.
- Stonecipher, S. A., see Winn and others, 1983.
- Streufert, Randall K., see Kirkham and others, 2001.
- Stucky, R. K., and Krishtalka, L., 1991, The application of geologic remote sensing to vertebrate biostratigraphy-General results from the Wind River Basin, Wyoming, *in* Lang, H.R., Chadwick, O.A., and Paylor, E.D., II, eds., Report on the second workshop on geologic applications of remote sensing to the study of sedimentary basins: v. 28, nos. 2&3 (April/July), p. 75-82, 5 figs., 1 table.
- Suttner, Lee J., see Graham and Suttner, 1974; Malone and Suttner, 1992, Elliott and others, 2003.
- Sweet, Dustin E., see Moore and others, 2008.
- Swetland, P. J., Clayton, J. L., and Sable, E. G., 1978, Petroleum source-bed potential of Mississippian-Pennsylvanian rocks in parts of Montana, Idaho, Utah, and Colorado: v. 15, no. 3 (July), p. 79-87, 3 figs., 4 tables.

- Tanner, William F., 1966, Numerous eolian ripple marks from Entrada Formation: v. 3, no. 3 (July), p. 133-134.
- Tanner, William F., 1968, Shallow lake deposits, lower part of Morrison Formation (Late Jurassic), northern New Mexico: v. 5, no. 4 (October), p. 187-195, 3 figs.
- Tanner, William F., 1970, Triassic-Jurassic lakes in New Mexico: v. 7, no. 4 (October), p. 281-289, 4 figs.
- Tanner, William F., 1971, Sediment-vector sequences and tectonism: vo. 8, no. 3 (July), p. 151-153, 2 figs.
- Tanner, William F., 1972, Large gypsum mounds in the Todilto Formation, New Mexico: v. 9, no. 1 (January), p. 55-58, 1 fig.
- Taylor, Andrew, see Lockley and others, 2001.
- Taylor, Lisa G. and Bornhorst, Theodore J., 1998, A boiling model for the formation of enargite-bearing veins in the Central City District, Colorado: v. 35, no. 1 (January), p. 15-22, 4 figs.
- Taylor, R. K., 1970, Penetration charts—Laramie Basin, eastern Colorado and southern Wyoming along the Front Range, and North Park Basin: v. 7, no. 3 (July), p. 150-155, 6 figs.
- Taylor, W. A., see Scott and Taylor, 1977.
- Teichert, Curt, 1968, Stratigraphic nomenclature in Devonian of central Arizona: v. 5, no. 4 (October), p. 179-189.
- Thomas, William A., 1971, Devonian stratigraphy north of the Uncompahgre Uplift, Colorado: v. 8, no. 2 (April), p. 85-88, 4 figs., 1 table.
- Thomas, William A., Allen, J. L., Mars, J. C., Mcdowell, R. J., Azevedo, P. A., Buck, B. J., Corner, H. J., and Dodd, J. R., 1996, Willow Creek basement fault system beneath the southwest Montana transverse zone: Dormant during Cambrian-Devonian time: v. 33, no. 4 (October), p. 115-124, 7 figs.
- Thompson, Tommy B., and Pulfrey, Robert J., 1973, The Mt. Antero Granite, Sawatch Range, Colorado: v. 10, no. 4 (October), p. 117-122, 2 figs., 4 tables.
- Thurston, W. R., see Johnson and Bolyard, 1969.
- Tobison, N. M., 1967, Geology and development history of Boxer Field, Morgan County, Colorado: v. 4, no. 3 (July), p. 83-89, 4 figs.
- Topper, Ralf, 2004, Aquifers of the Denver Basin, Colorado: v. 41, no. 4 (October), p. 145-152, 4 figs., 2 tables.
- Townsend, K. E., Friscia, A. R., and Rasmussen, D. T., 2006, Stratigraphic Distribution of Upper Middle Eocene Fossil Vertebrate Localities in the Eastern Uinta Basin, Utah, With Comments on Uintan Biostratigraphy: v. 43, no. 2 (April), p. 115-134, 5 figs., 5 tables.
- Travisano, Jeanne, see Schmoker and Travisano, 1993.

- Trexler, D. W., and Moore, F. E., 1972, AAPG field trip 1: Geology of the Denver mountain area—Red Rocks Park to Lookout Mountain to Boulder: v. 9, nos. 2-3 (April/July), p. 71-78, 2 figs.
- Trimble, D. W., 1980, Cenozoic tectonic history of the Great Plains contrasted with that of the southern Rocky Mountains—A synthesis: v. 17, no. 3 (July), p. 59-69, 10 figs.
- Trimble, James K., 1964, The fracture pattern and its relation to structure in the Kenosha Pass area, Park County, Colorado: v. 1, no. 3 (July), p. 141-144, 7 figs.
- Tremblay, Matthew L., see Archuleta and others, 2006.
- Tubbs, R. E., Jr., 1989, Depositional history of the White Rim Sandstone, Wayne and Garfield Counties, Utah: v. 26, no. 4 (October), p. 101-112, 9 figs., 2 tables.
- Tucker, D. R., and Birdseye, R.U., 1989, An Eocene synvolcanic alluvial fan complex in east-central Idaho—Stratigraphic relationships: v. 26, no. 1 (January), p. 23-30, 3 figs., 1 table.
- Tur, S. M., see Flores and Tur, 1982.
- Tweto, O. L., see Calkin and others, 1972.
- Tyler, R., Kaiser, W. R., Scott, A. R and Hamilton, D. S., 1997, The potential for coalbed gas exploration and production in the greater Green River Basin, southwest Wyoming and northwest Colorado, *in* Curtis, J. B., ed., A special volume: Gas reservoirs in the Rocky Mountains: v. 34, no. 1 (January), p. 7-24, 15 figs., 1 table.
- Tyler, Roger, see Laubach and others, 1993.
- Tyler, T. F., and Campbell, J. A., 1975, Dotsero Formation, western Colorado: v. 12, no. 4 (October), p. 113-118, 6 figs., 1 table.
- Tysdal, R. G., Dyman, T. S., and Nichols, D. J., 1989, Lower Cretaceous bentonitic strata in southwestern Montana assigned to Vaughn Member of Mowry Shale (east) and of Blackleaf Formation (west): v. 26, no. 2 (April), p. 53-61, 6 figs.
- Tysdal, R. G., see also Dyman and Tysdal, 1998.
- Van Deventer, B. R., and Picard, M. D., 1975, Paleocurrent analysis from ripple marks of Early Triassic Moenkopi Formation, Uinta Mountains area, northeastern Utah: v. 12, no. 2 (April), p. 55-59, 6 figs., 1 table.
- Van Trump, George, see Pitman and others, 1972.
- VanSlyke, George, see Graham and VanSlyke, 2004.
- Van West, F. P., 1972, Trapping mechanisms of Minnelusa oil accumulations, northeastern Powder River Basin, Wyoming: v. 9, no. 1 (January), p. 3-20, 14 figs.
- Veal, H. K., Duey, H. D., Bortz, L. C., and Foster, N. H., 1988, Grant Canyon and Bacon Flat oil fields, Railroad Valley, Nye County, Nevada: v. 25, no. 4 (October), p. 193-209, 24 figs.

- Verville, G. J., Sanderson, G. A., Baesemann, J. F., and Hampton, G. L., III, 1990, Pennsylvania fusulinids from the Beaverhead Mountains, Morrison Lake area, Beaverhead County, Montana: v. 27, no. 2 (April), p. 47-55, 5 figs.
- Verville, G. J., see also Loope and others, 1990; Sanderson and Verville, 1990.
- Volk, Richard W., see Clair and Volk, 1968; Plant and others, 1971.
- Vredenburg, Larry D., and Cheney, E. S., 1970, Sulfur isotopic fractionation accompanying maturation of Paleozoic petroleum, Wind River Basin, Wyoming – A synopsis: v. 7, no. 2 (April), p. 83-87, 4 figs.
- Vredenburg, Larry D., see also Plant and others, 1971.
- Wade, Rich, see Young and others, 2006.
- Wahlstedt, Warren J., see Gerhard and Wahlstedt, 1965.
- Walker, T. R., and Harms, J. C., 1972, Eolian origin of flagstone beds, Lyons Sandstone (Permian), type area, Boulder County, Colorado: v. 9, no. 2-3 (April-July), p. 279-288, 17 figs.
- Wallace, A. R., 1988, Comment on 'Age of the Dawson Arkose, Southwestern Air Force Academy, Colorado, and implications for the uplift history of the Front Range': v. 25, no. 2 (April), p. 37-38, 1 fig.
- Ward, William C., see Brady and Ward, 1974.
- Warner, Edward M., 2000, Structural Geology and Pressure Compartmentalization of Jonah Field Based on 3-D Seismic Data and Subsurface Geology, Sublette County, Wyoming: v. 37, no. 1 (January), p. 15-30, 15 figs., 2 tables.
- Waters, Johnny A., see Webster and Waters, 2005.
- Weber, James R., 1971, Structural geology of the northeastern flank of the Uinta Mountains, Moffat County, Colorado: v. 8, no. 4 (October), p. 163-181, 22 figs.
- Webster, Gary D., see Itano and others, 2003; Archuleta and others, 2006.
- Webster, Gary D., and Elliott, David K., 2004, New Information on Crinoids (Echinodermata) from the Pennsylvanian Naco Formation of Central Arizona: v. 41, no. 3 (July), p. 77-86, 3 figs., 1 table.
- Webster, Gary D., and Waters, Johnny A., 2005, Early Chesterian Echinoderms from the Otter Formation of Central Montana: v. 42, no. 1 (January), p. 23-33, 2 figs.
- Weimer, P. C., 1982, Upper Cretaceous stratigraphy and tectonic history of the Ridgway area, northwestern San Juan Mountains, Colorado: v. 19, no. 4 (October), p. 91-104, 17 figs., 1 table.
- Weimer, Robert J., 1970, Dakota Group (Cretaceous) stratigraphy, southern Front Range, South and Middle Parks, Colorado: v. 7, no. 3 (July), p. 157-184, 8 figs., 2 tables, 19 plates.

- Weimer, Robert J., 1973, A guide to uppermost Cretaceous stratigraphy, central Front Range, Colorado: Deltaic sedimentation, growth faulting and early Laramide crustal movement: v. 10, no. 3 (July), p. 53-97, 34 figs., 5 tables.
- Weimer, Robert J., and Grose, L. T., 1973, Road log—Cretaceous and related rocks, central Front Range: v. 10, no. 3 (July), p. 106-110, 1 figure.
- Weimer, Robert J., and Land, Cooper B., Jr., 1972a, Field guide to Dakota Group (Cretaceous) stratigraphy, Golden-Morrison area, Colorado: v. 9, no. 2-3 (April-July), p. 241-267, 8 figs, 10 plates, 7 measured sections.
- Weimer, Robert J., and Land, Cooper B., Jr., 1972b, Lyons Formation (Permian), Jefferson County, Colorado: A fluvial deposit: v. 9, nos. 2-3 (April-July), p. 289-297, 3 figs.
- Weimer, Robert J., see also McGookey and others, 1970; Sonnenberg and Weimer, 1993.
- Weiss, M. P., see Mattox and Weiss, 1987.
- Wells, Tina M., see Kraus and Wells, 1999.
- West, Robert M., 1965, Heavy minerals in braided stream deposits, Platte River, Nebraska: v. 2, no. 2 (April), p. 61-64, 7 figs.
- White, D. L., 1979, Rb-Sr age and isotopic data of some Precambrian plutons in central New Mexico, U.S.A.: v. 16, no. 4 (October), p. 131-137, 6 figs., 1 table.
- Wilbanks, John R., see Harris and Wilbanks, 1966.
- Wilde, E. E., see Lewis and others, 1969.
- Wiley, M. T., see Sanderson and Wiley, 1986.
- Williamson, D. R., 1965, The connection between kerogens and petroleums: v. 2, no. 3 (July), p. 129-134.
- Winn, R. D., Jr., Stonecipher, S. A., and Bishop, M. G., 1983, Depositional environments and diagenesis of offshore sand ridges, Frontier Formation, Spearhead Ranch Field, Wyoming: v. 20, no. 2 (April), p. 41-58, 18 figs., 1 table.
- Witkind, I. J., 1992, Paired, facing monoclines in the Sanpete Sevier Valley area, central Utah: v. 29, no. 1 (January), p. 5-17, 6 figs., 1 table.
- Witkind, I. J., and Page, W. R., 1984, Origin and significance of the Wasatch and Valley Mountains Monoclines, Sanpete-Sevier Valley area, central Utah: v. 21, no. 4 (October), p. 143-156, 7 figs., 1 table.
- Wobus, R. A., and Hedge, C. E., 1982, Redefinition of the Precambrian Tusas Mountain and Tres Piedras Granites, north-central New Mexico: v. 19, no. 4 (October), p. 105-114, 4 figs., 4 tables.
- Wolf, Robert C., see Bolyard and others, 1968.
- Woncik, John, 1969, Recluse Field, Campbell County, Wyoming: v. 6, no. 4 (October), p. 221-226, 7 figs.

- Wong, I. G., 1991, The 1986 Crested Butte, Colorado earthquake swarm: v. 28, no. 1 (January), p. 3-8, 4 figs.
- Wong, I. G., and Humphrey, J. R., 1986, The 14 August 1983 Cimarron, Colorado earthquake and the Cimarron Fault: v. 23, no. 1 (January), p. 14-18, 4 figs.
- Woodward, L. A., 1986, A case for brittle deformation of the basement during the Laramide Revolution in the Rocky Mountain foreland province-Discussion: v. 23, no. 3 (July), P. 90-91.
- Woodward, L. A., 1993, Lode-gold deposits hosted by the Helena and Wallace Formations (Middle Proterozoic) in the Rock Creek gold belt, southwestern Montana: v. 30, no. 1 (January), p. 17-24, 6 figs.
- Woodward, L. A., 1997, Role of regional tectonic analysis in exploration for fracture reservoirs in Cretaceous source rocks of the Raton Basin, New Mexico: v. 34, no. 2 (April), p. 73-80, 4 figs., 1 table.
- Woodward, L. A., and Bell, T. E., 1995, Pre-Middle Cambrian (Proterozoic?) block faulting in central Montana: v. 32, no. 4 (October), p. 107-112, 5 figs.
- Woodward, L. A., Snyder, D. O., and Husler, J. W., 1978, Geology and mineralization at the Milagros gold deposit, central New Mexico: v. 15, no. 3 (July), p. 73-78, 4 figs., 2 tables.
- Wright, Joanna L., see Lockley and others, 2001.
- Wulf, George R., see McGookey and others, 1970.
- Wynne, Peter J., see Kovach and others, 2003.
- Yacoub, Nazieh K., 1965, Magnetic survey of the Jefferson area, Park County, Colorado: v. 2, no. 4 (October), p. 193-201, 4 figs.
- Yeend, Warren E., 1973, Slow-sliding slumps, Grand Mesa, Colorado: v. 10, no. 1 (January), p. 25-28, 5 figs.
- Yin, An, 1991, Complex pre-Lewis Thrust deformation, southeastern Glacier Park, Montana, *in* Lang, H.R., Chadwick, O.A., and Paylor, E.D., II, eds., Report on the second workshop on geologic applications of remote sensing to the study of sedimentary basins: v. 28, nos. 2&3 (April/July), p. 91-103, 7 figs.
- Young, B. H., see Lockley and others, 1983.
- Young, Kelly, Gagnon, Paul, Lee, James, McKinstry, Brian, and Wade, Rich, 2006, Shallow Gas in the Milk River Formation: The first Western Canadian Gas Discovery, v. 43, no. 3 (July), p. 251-256, 5 figs.
- Young, Robert G., 1970, Lower Cretaceous of Wyoming and the southern Rockies: v. 7, no. 3 (July), p. 105-121, 11 figs.
- Zaitlin, Brian A., and Moslow, Thomas F., 2006, A Review of Deep Basin Gas Reservoirs of the Western Canada Sedimentary Basin: v. 43, no. 3 (July), p. 257-262, 9 figs.

Zarella, William M., 1966, Significance of hydrocarbon disposition in petroleum exploration (Abstract): v. 3, no. 2 (April), p. 95-96.

Zartman, Robert E. and Reed, John C., Jr., 1998, Zircon geochronology of the Webb Canyon Gneiss and the Mount Owen Quartz Monzonite, Teton Range, Wyoming: Significance to dating Late Archean metamorphism in the Wyoming craton: v. 35, no. 2 (April), p. 71-77, 3 figs., 1 table.

Zech, R. S., see Keighin and others, 1993.

Zinke, Sally G., see Kneller and others, 2006.

Part II—Geographical Index

- Absaroka Volcanic Field—Trimble, 1980.
- Alameda Roadcut—MacKenzie, 1968; Houck, 2001; Hubert and Panish, 2000; Lockley, 2001; Lockley and others, 2001; Lockley and others, 2001; Matthews and Breithaupt, 2001; Modreski, 2001.
- Alaska—Kirk and others, 1984.
- Alberta Basin—Zarrela, 1966.
- Alberta Trough—Hite, 1978.
- Algeria—Slatt and others, 1995.
- Algodones Dunes—Walker and Harms, 1972.
- Amadeus Basin—Hite, 1978.
- Anadarko Basin—Clair and Volk, 1968; Matson and Schneider, 1968; Pickering and Indelicato, 1985; Rascoe, 1968; Rogers, 1975; Rogers and others, 1995.
- Ancestral Rocky Mountains—Mallory, 1966.
- Antero Reservoir—DeVoto, 1964.
- Apishapa Uplift—Edwards, 1976; Mark and Requist, 1969a.
- Appalachian Basin—Geiser and others, 1988; Johnson, 1995.
- Arbuckle Mountains—Ham, 1964.
- Archuleta Anticlinorium—Brister and Chapin, 1994.
- Arena Creek-Westcliffe area—Munger, 1965a.
- Arizona—Dallegge and others, 2003; Kenny and Krinsley, 1998; Longman and Johnson, eds., 1999; Masters, 2000; Robertson and O'Sullivan, 2001; Teichert, 1968; Webster and Elliott, 2004.
- Arkansas River—Chronic, 1964; Clarey and others, 1998; Salotti and Fouts, 1964.
- Arkansas Valley—Chapin and Epis, 1964.
- Axial Arch—Tyler and others, 1997.
- Bahamas—Rogers, 1971.
- Bandera-McCartys Volcanic Field—Gornitz, 1982.
- Basin and Range—see Great Basin.
- Bearpaw Mountains—Stone, 1983.
- Beartooth Mountains—Beebee and Cox, 1998; Catanzaro, 1967; Gries, 1981; Montgomery and Gray, 1989; Smith and Dorobek, 1989; Stone, 1983.
- Beaverhead Mountains—M'Gonigle and Dalrymple, 1993; Swetland and others, 1978; Tucker and Birdseye, 1989; Verville and others, 1990.
- Belt Basin—Thomas and others, 1996; Woodward and Bell, 1995.
- Big Hatchet Mountains—Sivils and Johnson, 2000.
- Big Horn (Bighorn) Basin—Allison, 1966; Brown, 1984; Chen and Lubin, 1997; Clarey, 1990; Coalson and Inden, 1990; Constenius, 1988; Curtis, 1994; Emmett and others, 1972; Gay, 1999; Grannell and Showalter, 1991; Gries, 1981; Hares, 1988; High and Picard, 1967; Kirschbaum and others, 2009; Kraus and Wells, 1999; Lang and others, 1991; Matthews, 1986a; Paylor and others, 1989; Rogers, 1971; Schmude, 2000; Sheldon, 1967; Shelton and Ross, 1971; Stone, 1972, 1983, 1984a, 1987, 2004a, 2004b.

Big Horn Mountains—Gries, 1981; Hansley and Brown, 1993; Hennings and Spang, 1987; Hoy and Ridgway, 1998; Merin and Lindholm, 1986; Moore, 1975; Paylor and others, 1989; Shelton and Ross, 1971.

Big Piney area—Tyler and others, 1997.

Big Snowy Mountains—Johnson, 1995.

Bighorn Basin—see Big Horn Basin.

Black Hills—Ahlbrandt and others, 1994; Ahlbrandt and Fox, 1997; Cicimurri, 2001; Cicimurri, David J., 2004; Evetts, 1976, 1979; Gates and Rahn, 1986; Gries, 1964; Kirchner, 1991; Macdonald and Byers, 1988; Merewether and others, 1979; Merin and Lindholm, 1986; Moore, 1975; Petty, 2003; Schenk and others, 1993.

Black Hills Monocline—Gary and McGregor, 1968.

Black Mesa Basin—Baars and Campbell, 1968.

Black Mountains—Ross and McAllister, 1981.

Black Range—Gornitz, 1982.

Book Cliffs—Howard, 1969; Olsen, 1995.

Borrego Pass—Correa, 1970.

Boulder Creek, South—Campbell, 1966.

Boundary Bay, B.C.—MacKenzie, 1972.

Bowdoin Dome—Nolte, 1967.

Bridger Mountains—Johnson, 1995.

Buffalo Peaks—Chronic, 1964.

Burro Canyon—McPeck, 1965.

Butte Valley—Pekarek, 2005.

California—Stone, 1970.

Canada—Davis, 2005; Higley and others, 2005; Nolte, 1967.

Cancun—Brady and Ward, 1974.

Cane Creek Anticline—Raup, 1972.

Canon City, Colorado—Kurtz and others, 2001.

Canon City Coal Field—Clarke, 1965.

Canon City Embayment—Alther, 1977; Boos and others, 1970; Clarey and others, 1998; Fischer, 1978; Gerhard, 1968; Gerhard and Mark, 1968; Gerhard and others, 1970; Kauffman, 1977b; Krutak, 1970; Odien, 1998; Reuss, 1974; Slatt and others, 1995.

Canyonlands—Hite and others, 1972; Huntoon, 1996.

Capitan Reef—Cronoble, 1974.

Carbon Basin—Blackstone, 1994.

Casper Arch—Stone, 1999, 2006a.

Castle Valley—Garner, 1997.

Cathedral Cliffs—King and others, 2009.

Central City District—Taylor and Bornhorst, 1998.

Central Montana Trough—Carlson, 1967.

Chama Basin—Brister and Chapin, 1994; Gries, 1985; Owen, 1969; Siems, 1964.

Chance Gulch—Stamm and others, 2004.

Cherokee Arch—Tyler and others, 1997.

Cherokee Basin—Tyler and others, 1997.

Circle Cliffs—Blakey, 1973.
 Clark Mountains—Mueller and others, 1979.
 Clarks Fork Canyon—Beebee and Cox, 1998.
 Coal Canyon—Cole and Cumella, 2005.
 Coal Creek—Campbell, 1966.
 Coconino Plateau—Sorauf and Billingsley, 1991.
 Colombia—Hite, 1978.
 Colorado Plateau—Baars, 1991; Baars and Campbell, 1968; Brister and Chapin, 1994; Cepeda, 1994; Harshman, 1972a; Holm, 1987; Huntoon, 1996; Kauffman, 1977b; Loope and Verville, 1990; Murray and others, 1968; Randall, 1965; Sanderson and Verville, 1990; Sorauf and Billingsley, 1991; Trimble, 1980; Tubbs, 1989.
 Colorado River—Huntoon, 1996.
 Colorado—Anderson, 2005; Anderson, 2006; Bartos, 2009; Bush and Bush, 1974; Caine and others, 2006; Caldes, 2005; Carroll, 2009; Clarey and others, 2004; Colorado Department of Health, 1971; Colorado Oil and Gas Conservation Commission, 1971; Dockal, 2005; Erslev and Larson, 2006; Evans, 2002; Evans and Reed, 2006; Everett and Hoisch, 2008; Hester, 1974; Itano and Bateman, 2001; Itano and others, 2003; Izett and Obradovich, 2001; Kent, 1973; Kirk and others, 1981b; Kirkham and others, 2001; Kittleson, 2009; Knepper, 2005; Longman and Johnson, eds., 1999; MacLachlan and Kleinkopf, 1969; Matthews, 1973; Murray and others, 1968; Nelson, 2002b; Nesse, 2006; Parker and Bortz, 2001; Pasternack, 2005; Schillawski, 2009; Shawe and others, 2008; Sherman, 2009; Stamm and others, 2004.
 Cordilleran region—Schleh, 1968.
 Cottonwood Creek drainage—Chapin and Epis, 1964.
 Crazy Mountains Basin—Smith and Dorobek, 1989.
 Cripple Creek area—Koschman, 1972.
 Crooks Gap area—Bailey, 1972.
 Cross Mountain—Mayer, 1964.
 Culebra Range—Lindsey, 1998.
 Cumberland Plateau—Johnson, 1995.
 Dallas-Fort Worth area—Mohorich, 1971.
 Dead Indian Creek—Beebee and Cox, 1998.
 Deer Lodge Basin—Constenius, 1988.
 Defiance Plateau—Stanenco, 1991.
 Delaware Basin—Cronoble, 1974; Doeringsfeld and Ivey, 1964.
 Denver Basin—Adams and Patton, 1979; Ahlbrandt and Groen, 1987; Al-Raisi and others, 1996; Baars and Campbell, 1968; Baker, 1973; Bardwell, 1966; Barkmann, 2004; Barlow, 1986; Birmingham, 2006; Blood, 1970; Boos and Nance, 1970; Boos and others, 1970; Byrnes, 1997; Campbell, 1966; Chancellor, 1964, 1967; Childers, 1974; Clarke, 1965; Covington, 1966; Crifasi, 1992; Davis, 1985; De Voto and Larsen, 1972; DuBois, 1996; Ecker, 1971; Eicher, 1977; Ellis, 1966; Evans, 1966; Foster and others, 1968; Garbarini, 1964; Gerhard, 1968; Gerhard and Mark, 1968; Gerhard and Wahlstedt, 1965; Geyer, 1972; Graham and Ethridge, 1995; Graham and VanSlyke, 2004; Griffith, 1965; Grose, 1972;

Hayes, 1967; Hedge, 1967; Hite, 1978; Howard, 1966; Jehn-Dellaport, 2004; Kauffman, 1977a; Kauffman and others, 1977; Kelso and others, 2006; Kiteley, 1976; Kittleson, 1992, 2004; Kluth and Nelson, 1988; Krutak, 1970; Landon and others, 2001; Larsen, 1972; Leonard and Langford, 1994; LeRoy, 1965; LeRoy and Grose, 1967; Lockley, 1987; Longman and others, 1998; MacKenzie, 1968, 1971, 1972; MacLachlan and Kleinkopf, 1969; Martz, 1996; Matuszcak, 1973; McGuire and others, 1982; Murray, 1967; Murray and others, 1968; Netoff, 1971; Novotny and Sanford, 2004; Nwangwu, 1977; Pearl, 1971; Pollastro and Martinez, 1985; Pritchett, 1994; Rascoe, 1968; Reynolds, 2004; Reade, 1976; Reheis, 1980; Reinert and Davies, 1976; Sahl and others, 1993; Scobey, 1964; Scopel, 1964; Shenk, 1971; Silverman, 1988; Slatt and others, 1995; Sonnenberg, 1982, 1984, 1985; Sonnenberg and Weimer, 1993; Taylor, 1970; Tobison, 1967; Topper, 2004; Trexler and Moore, 1972; Trimble, 1980; Walker and Harms, 1972; Wallace, 1988; Weimer, 1970, 1973; Weimer and Grose, 1973; Weimer and Land, 1972a, 1972b.

Diamond Mountains—Camilleri, 2000.

Dinosaur Ridge—see Alameda Roadcut.

Dickinson Field—Johnson, 1995; Longman, 1996.

Douglas Creek Arch—Dyini, 1969; Sanborn and Goodwin, 1965.

Dutton Anticline—Stone, 1966.

Eagle Basin—Baars and Campbell, 1968; Bridges and McCarthy, 1990; Bush and Bush, 1974; Campbell, 1970; Foster and others, 1968; Harper, 1966; MacLachlan and Kleinkopf, 1969; Mallory, 1966b; Murray and others, 1968; Newton, 1964; Nuccio and others, 1989; Stevens, 1965.

El Vado-Nutrias Canyon—McPeck, 1965.

Elaterite Basin—Tubbs, 1989.

Elk Mountain—Stone, 1966.

England—MacKenzie, 1972.

Espanola basin—Siems, 1964.

Fish Creek Basin—Gries, 1981.

Flint Creek Range—Woodward, 1993.

Forest City Basin—Kaplan and others, 1983.

Fort Worth Basin—Johnson, 1995.

Fossil Basin—Donnell, 1965; Hurst and Steidtmann, 1986; Leggitt and Loewen, 2007; Nichols and Jacobson, 1982; Salat and Steidtmann, 1991.

Fox Canyon—Reeves, 1964.

Front Range—Adams and Patton, 1979; Anderson, 1970; Beck, 1969; Bergh and Snoke, 1992; Braddock and Peterman, 1989; Caine and others, 2006; Calkin and others, 1972; Campbell, 1966; Chapin and Epis, 1964; Chronic, 1964; Clarey and others, 1998; Collins and Collins, 1984; Cooperrider and Heinrich, 1978; Davis, 1985; De Voto, 1972; Downs and Bird, 1965; Egglar, 1967; Eicher, 1977; Erslev, 2007; Erslev and Larson, 2006; Fenton and Faure, 1970a; Fischer, 1978; Gerhard, 1968; Gerhard and Mark, 1968; Gerhard and Wahlstedt, 1965; Grose, 1972; Hall and Bullock, 1970; Harms, 1964; Hedge, 1967; Howard, 1966; Huber and Grogger, 1985; Karig, 1964; Kauffman, 1977b; Kauffman and others, 1977; Kluth and

Nelson, 1988; Koschman, 1972; Larson and Amini, 1981; Leonard and Langford, 1994; Lester, 1993; Locke, 1987; Matthews, 1986a, 1986b, 2007; Matthews and Sherman, 1976; Murray, 1975; Murray and others, 1968; Nelson, 1971; Nesse, 2006; Nwangwu, 1977; Pearl, 1968; Pritchett, 1994; Reuss, 1974; Snow, 1973; Sterne, 2006; Taylor and Bornhorst, 1998; Trimble, 1964, 1980; Wallace, 1988; Weimer, 1970; Woodward, 1986.

Fryingpan River—Newton, 1964.

Funeral Mountains—Ross and McAllister, 1981.

Galisteo basin—Siems, 1964.

Gallup area—Robertson and O’Sullivan, 2001.

Galveston Island—Covington, 1966; Woncik, 1969.

Georgina Basin—Hite, 1978.

Germany—see Jade Bay.

Glades-Clay Basin—see Pedersen and Steel, 1999.

Gore Range—Campbell, 1970.

Grand Canyon—Huntoon, 1996.

Grand Mesa—Yeend, 1973.

Granite Mountains—Flemings and Nelson, 1991; Gillespie and Fox, 1991; Gries, 1981; Gudim, 1966; Hansley and Brown, 1993; Hogle and Jones, 1991; Merewether, 1983.

Grant Range—Camilleri, 1992.

Great Basin—Axen, 1989; Camilleri, 1992; Flanigan, 1988; Foster, 1994; Gilmore, 1990; Jansma and Mattioli, 1994; Kauffman, 1977b; Kenny and Krinsley, 1998; Luft, 1985; Mansholt, 1983; Matthews, 1988, 1989; Mattox and Weiss, 1987; McDowell, 1988; Nusbaum and Grant, 1987; Osmond, 1966; Paull and Paull, 1998; Pekarek, 1988; Randall, 1965; Roybal, 1981; Schalla and Benedetto, 1991; Swetland and others, 1978; Tucker and Birdseye, 1989; Veal and others, 1988.

Great Divide Basin—Ahlbrandt, 1975; Childers, 1974; Gries, 1981; Law and others, 1980; Merewether, 1983; Perman, 1987.

Great Plains (Canada)—Weimer, 1982.

Great Plains—Collins, 1987; Collins and Nichols, 1987; Hattin, 1977; Hester, 1999; Kauffman, 1977b; Leonard and Langford, 1994; Madden, 1977; Nichols and others, 1987; Randall, 1965; Scott, 1977; Trimble, 1980.

Great Sand Dunes National Monument—Johnson, 1968.

Greater Green River Basin—see Green River Basin.

Green Mountain—Bailey, 1972.

Green River Basin—Ahlbrandt, 1975; Bailey, 1972; Bohacs and others, 2007; Bohacs and others, 2007; Brand, 2007; Byrnes, 1997; Childers, 1974; Culbertson, 1964, 1972; Curtis, 1994; Doeringsfeld and Ivey, 1964; Donnell, 1965; DuBois and others, 2006; Gries, 1981; Hamlin, 1996; Hansen, 1984, 1985; High and Picard, 1967; Hite, 1978; Kirschbaum, 1986; Kirschbaum and others, 1994; Kneller and others, 2006; Kovach and others, 2003; Larsen, 1972; Laubach and others, 1993; Law and others, 1980; Leggitt and Loewen, 2007; Leggitt and others, 2007; Lehrer, 2006; Levey, 1992; McClain and Norris, 2006; McCubbin and Brady, 1969; Merewether, 1983; M’Gonigle and others, 1995; Mulholland, 1994; Parker,

1966; Parker and Bortz, 2001; Pasternack, 2005; Rackley, 1972; Robinson, 2000; Sheldon, 1967; Sikich, 1965; Slatt and others, 1995; Tyler and others, 1997; Warner, 2000.

Gros Ventre Range—Hansen, 1985; Harrington, 1985.

Guadalupe Mountains—Cronoble, 1974.

Guffey area—Chapin and Epis, 1964.

Gulf of California—Gopinath, 1978.

Gunnison Plateau—Mattox and Weiss, 1987; Witkind, 1992; Witkind and Page, 1984.

Hanna Basin—Bergh and Snoke, 1992; Blackstone, 1994; Gries, 1981; Larsen, 1972; Longman and others, 1998; Merewether, 1983; Merewether and others, 1979; Perman, 1987; Stone, 1966, 1984b; Witkind, 1992.

Hardeman Basin—Johnson, 1995.

Harrison Basin—Elliott and others, 2003.

Hartsel area—Ettinger, 1964.

Hartville Uplift—Longman and others, 1998.

Hawaii—Kirk and others, 1983b.

Hayden Pass—Munger, 1965a.

Helena Embayment—Woodward and Bell, 1995.

Henry Basin—Eaton, 1990.

Henry Mountains—Eaton, 1990.

High Plains—see Great Plains.

Holbox Island—Brady and Ward, 1974.

Horse Prairie Basin—M'Gonigle and Dalrymple, 1993.

Huerfano Park—Kauffman and others, 1969; Schavran, 1985; Siems, 1964.

Hugoton Embayment—Clair and Volk, 1968; Lockley, 1987; Matson and Schneider, 1968; Rogers, 1975; Rogers and others, 1995; Sonnenberg, 1985.

Idaho—Abplanalp and others, 2009; Archuleta and others, 2006; Hansen and others, 1980c; Isaacson and others, 2007; Sheldon, 1967.

Iles Mountain—Lauman, 1966.

Indian Peaks Wilderness—Dockal, 2005.

Iron Mountain—Corbett, 1966.

Jackson Hole—Blackstone, 1989; Harrington, 1985.

Jade Bay, Germany—MacKenzie, 1972.

Jemez Mountains—Gornitz, 1982; Siems, 1964.

Juniper Mountain—Mayer, 1964.

Kaibab Plateau—Cepeda, 1994; Sorauf and Billingsley, 1991.

Kaiparowitz Plateau—Matheny and Picard, 1985.

Kansas—Rascoe, 1968.

Kenosha Pass—Trimble, 1964.

Kishenehn Basin—Constenius, 1988.

Kuntz Gulch—Salotti and Fouts, 1964.

La Veta Pass—Lindsey, 1998.

Ladron Mountains—White, 1979.

Laramide Overthrust Belt—Hull, 1999.

Laramie Basin—Blackstone, 1984, 1986, 1994; Cardinal, 1970; De Voto and Larsen, 1972; Egger, 1967; Evetts, 1976; Gries, 1981; Hagner, 1967; Klugman, 1966, 1967; Larsen, 1972; Longman and others, 1998; Merewether and others, 1979; Stone, 1966, 1985, 2005a; Taylor, 1970.

Laramie Range—Gries, 1981; Kiteley, 1976; Larson and Amini, 1981; Moore, 1975.

Las Animas Arch—Clair and Volk, 1968; Gerhard and Mark, 1968; Hammuda, 1974; MacLachlan and Kleinkopf, 1969; Matson and Schneider, 1968; Murray and others, 1968; Plant and others, 1971; Ramirez L., 1974; Rascoe, 1968; Stoddard, 1968.

LaVeta Pass—Johnson and Bolyard, 1969.

Leigh Canyon, North—Reeves, 1964.

Lewis Range—Butler, 1983.

Little Basin—Bergh and Snoke, 1992.

Little Bear Creek—Beebee and Cox, 1998.

Little Belt Mountains—Catanzaro, 1967.

Livermore area—Egger, 1967.

Los Angeles Basin—Stone, 1970.

Magdalena Mountains—White, 1979.

Manzano Mountains—White, 1979; Woodward and others, 1978.

Marble Mountains—Foster, 1994.

Medano Creek—Johnson, 1968.

Medicine Bow Mountains—Blackstone, 1984, 1986; Catanzaro, 1967; Corbett, 1966; Gries, 1981; McCallum, 1968; Stone, 1985.

Medicine Lodge Basin—M'Gonigle and Dalrymple, 1993.

Mexican Volcanic Belt—Jansma and others, 1991; Johnson and others, 1991.

Mexico—Hite, 1978; Jansma and others, 1991; Johnson and others, 1991, 1992; Monod and others, 1992.

Michigan Hill—Yacoub, 1965.

Mid-Continent—Rascoe, 1968.

Middle Park—Hall and Bullock, 1970; Harms, 1964; Malan, 1969; Nelson, 1971; Weimer, 1970.

Milsap Creek area—Gerhard and Wahlstedt, 1965.

Mississippi delta—Weimer, 1973; Weimer and Land, 1972.

Model Anticline—Kauffman and others, 1969; Mark and Requist, 1969a.

Mogollon Mountains—Gornitz, 1982.

Mojave Desert—Foster, 1994.

Montana—Elliott and others, 2003; Kirk and others, 1981a; Longman and Johnson eds., 1999.

Montana, Central—Carlson, 1967; Webster and Waters, 2005.

Montana, Northern—Hester, 1999.

Montana, Southwest—see southwest Montana.

Monte Vista Basin—Brister and Chapin, 1994.

Monument Upwarp—Blakey, 1973.

Morrison quadrangle—Pearl, 1968.

Mosquito Range—Anderson, 1970; Chapin and Epis, 1964; Chronic, 1964; Harms, 1964

Mount Richthofen—Corbett, 1966.
 Moxa Arch—Hamlin, 1996; Tyler and others, 1997.
 Mt. Taylor Volcanic Field—Gornitz, 1982.
 Mummy Range—Beck, 1969.
 Natanes Plateau—Kenny and Krinsley, 1998.
 Natural Buttes Field—Schmoker and others, 1996.
 Needle Mountains—Brister and Chapin, 1994.
 Nevada—Kirk and others, 1982; Longman and Johnson eds., 1999; Pekarek, 2005.
 Never Summer Mountains—Corbett, 1966.
 New Mexico—Corbett, 1966; D’Lugosz and Cebull, 1972; Gresens, 1971; Gresens and Stensrud, 1974; Harris, 1971; Izett and Obradovich, 2001; Kirk and others, 1983a; Longman and Johnson, eds., 1999; Lucas and others, 2001; Mack and Dinterman, 2002; Milner, and others, 2005; Robertson and O’Sullivan, 2001; Tanner, 1968, 1970, 1971; Scott and others, 2004.
 North Dakota—Hansen and others, 1980b; Johnson, Michael S., 2001; Longman and Johnson, eds., 1999.
 North Park—Gries, 1981; Harms, 1964; Haverfield, 1970; Lauman, 1966; Longman and others, 1998; Malan, 1969; Nelson, 1971; Taylor, 1970.
 Northwest Colorado—Baars and Campbell, 1968; Conley, 1965; Foster and others, 1968; Krummel, 1973; MacLachlan and Kleinkopf, 1969; Mayer, 1964; Millison, 1965; Murray and others, 1968; Sikich, 1965; Yeend, 1973.
 North-Central Montana—Lillis, 2007.
 Northwest Montana—Fenton and Faure, 1970b.
 Northwest Territories—Broughton, 1973.
 O’Neil Pass—Paull and Paull, 1998.
 Oklahoma—Kauffman and others, 1969; Rascoe, 1968; Scott and others, 2004.
 Orient area—Munger, 1965a.
 Orogrande Basin—Carr, 1985.
 Oscura Mountains—White, 1979.
 Ouachita Mountains—Slatt and others, 1995.
 Overthrust Belt—Armstrong and Oriel, 1965; Bibler and Schmitt, 1986; Blackstone, 1989; Constenius, 1988; Curtis, 1994; Dolson and others, 1993; Dow, 1988; Dyman and others, 1988; Fenton and Faure, 1970b; Gay, 1999; Geiser and others, 1988; Hite, 1978; Hurst and Steidtmann, 1986; Kauffman, 1977b; Kirschbaum and others, 1994; Levey, 1992; M’Gonigle, 1982; M’Gonigle and others, 1995; Merewether, 1983; Nichols and Jacobson, 1982; Perry, 1986; Ryer, 1976; Salat and Steidtmann, 1991; Schmitt, 1985; Schmitt and Hazen, 1987; Sheldon, 1967; Smith and Dorobek, 1989; Swetland and others, 1978; Tysdal and others, 1989; Verville and others, 1990; Yin, 1991.
 Owl Creek Mountains—Blundell and Marrs, 1991; Flemings and Nelson, 1991; Grannell and Showalter, 1991; Gries, 1981; Hogle and Jones, 1991; Paylor and others, 1989; Shelton and Ross, 1971.
 Ozark Plateau—Johnson, 1995.
 Paradox Basin—Baars and Stevenson, 1968, 1984; Blakey, 1973; Chenoweth, 1978; Dubiel and others, 1989; Foster and others, 1968; Gries, 1981; Hite, 1972; Hite

and others, 1972; Louden and others, 2000; Mack, 1977; Mack and Miller, 1980; MacLachlan and Kleinkopf, 1969; Mitchell, 1985; Moore and others, 2008; Morris, 1975; Raup, 1972; Segal and others, 1986; Weimer, 1982.

Park Range—Nelson, 1971.

Pedregosa Basin—Sivils and Johnson, 2000.

Pendleton Mesa—Kenny and Krinsley, 1998.

Permian Basin—Cronoble, 1974; Johnson, 1995; Rogers and others, 1995; Shaw, 1977.

Perry Park—Ellis, 1966.

Peru—Doeringsfeld and Ivey, 1964.

Petaca pegmatite district—Gresens, 1971.

Piceance Basin—Burger, 2007; Byrnes, 1997; Campbell, 1970; Chenoweth, 1978; Cole and Cumella, 2005; Curtis, 1994; Donnell, 1965; Dyni, 1969; Dyni and Goodwin, 1972; Fryberger, 1979; Gries, 1981; Hansen, 1984; Hansley and Johnson, 1980; Keighin, 1980; Landon and others, 2001; Lockley and others, 1983; Longman and others, 1998; MacLachlan and Kleinkopf, 1969; Madden, 1985; McGuire and others, 1982; Nelson, 2002b; Nelson, 2007; Newman, 1965b; Ritzma, 1965; Slatt and others, 1995; Smuin, 1990; Snow, 1970; Stone, 1994; Yeend, 1973

Picuris Range—Gresens and Stensrud, 1974.

Pinedale Anticline—Tyler and others, 1997.

Pinon Range—Jansma and Mattioli, 1994.

Pioneer Mountains—Dyman and Tysdal, 1998; Swetland and others, 1978.

Platte River—Chapin and Epis, 1964; Ettinger, 1964; Sawatzky, 1964; West, 1965.

Popes Bluffs—Hayes, 1967.

Potrillo Mountains—Gornitz, 1982.

Powder River Basin—Ahlbrandt and Fox, 1997; Ahlbrandt and others, 1994; Allison, 1966; Amsbury, 1967; Berg, 1976; Childers, 1974; Coughlan and Steidtmann, 1984; Curtis, 1994; Doeringsfeld and Ivey, 1964; Egbert and Armstrong, 1970; Gary and McGregor, 1968; Gerhard, 1967; Gries, 1964, 1981; Hansley and Brown, 1993; Hares, 1988; Hoy and Ridgway, 1998; Johnson, 1988; Landon and others, 2001; Langen and Kidwell, 1974; Lin, 1981; Merewether and others, 1979; Merin and Lindholm, 1986; Mettler, 1966; Mitchell and Rogers, 1993; Moore, 1975, 1983, 1984; Oldham, 1997; Rackley, 1972; Robinson and Barnum, 1986; Schenk and others, 1993; Schmoker and Schenk, 1988; Seeling, 1978; Shelton and Ross, 1971; Sholes and Cole, 1981; Stenberg and Doll, 2006; Stone, 1972,, 1999, 2006a; Van West, 1972; Winn and others, 1983; Woncik, 1969.

Providence Mountains—Foster, 1994.

Puerto Rico—Fera, 1965.

Quintana Roo shelf—Brady and Ward, 1974.

Ralston Creek—Campbell, 1966.

Rampart Range—Blanton, 1975; Harms, 1964; Leonard and Langford, 1994; Nwangwu, 1977; Trimble, 1980.

Raton Basin—Carlton, 2006; Curtis, 1994; Flores and Tur, 1982; Jurie and Gerhard, 1969; Kauffman, 1977a; Kauffman and others, 1969; Landon and others, 2001; Lewis and others, 1969; Lindsey, 1998; Longman and others, 1998; Malan, 1969;

Mark and Requist, 1969a, 1969b; Matuszczak, 1969; Pillmore, 1969; Siems, 1964; Woodward, 1997.

Raton-Clayton Volcanic Field—Gornitz, 1982.

Raven Ridge—Sanborn and Goodwin, 1965.

Red Rock Valley—McDowell, 1998.

Red Sea—Shaw, 1977.

Reed Wash—Royse, 1996.

Reno area—Amsbury, 1967.

Rio Grande Rift—Bridges and McCarthy, 1990; Gornitz, 1982; Harris and Wilbanks, 1966; Izett and Obradovich, 2001; McPeck, 1965; Munger, 1965a; Salotti and Fouts, 1964; Siems, 1964; Stone, 1997.

Roaring Fork Valley—Mallory, 1966b.

Rock Springs Uplift—Kirschbaum and others, 1994; Larsen, 1972; McCubbin and Brady, 1969; Pedersen and Steel, 1999; Tyler and others, 1997.

Rocky Flats—Murray, 1967; Knepper, 2005.

Rocky Mountain Arsenal—Bardwell, 1966; Evans, 1966; Hedge, 1967; Scopel, 1964.

Rocky Mountain region—Byrnes, 1997; Catanzaro, 1967; Curtis, 1994, 1997; Foster and others, 1968; Gay, 1999; Gulbrandsen, 1971; High and Picard, 1967; Kauffman, 1969; Kellogg, 1997; Landon and others, 2001; Lillegraven and McKenna, 2008; Longman and Johnson eds., 1999; Longman and others, 1998; MacLachlan and Kleinkopf, 1969; Matthews, 2006; Millison, 1964; Murray and others, 1968; Nichols, 2009; Nichols and Flores, 2006; Parker and Ray, 2001; Randall, 1965; Schleh, 1968; Sheldon, 1967; Stone, 1969, 1970, 2004b, 2005a, 2005b, 2006a, 2006b; Young, 1970.

Royal Gorge arch—Clarey and others, 1998; Clarey and others 2004.

Ruedi Reservoir—Newton, 1964.

Sacramento Mountains—Carr, 1985; Johnson, 1995.

Sacramento Valley—Gries, 1985; Stone, 1970.

Salina Basin—Hattin, 1977; Scott, 1977.

San Francisco Volcanic Field—Holm, 1987.

San Juan Basin—Baars and Campbell, 1968; Brister and Chapin, 1994; Byrnes, 1997; Conley, 1964; Correa, 1970; Curtis, 1994; Dubiel, 2007; Emmendorfer, 1989; Fassett, 2006; Flores and Erpenbeck, 1981; Gresens, 1971; Kauffman, 1977a; Keighin and others, 1993; Landon and others, 2001; Larsen and others, 2000; Longman and others, 1998; Manfrino, 1984; Matuszczak, 1969, 1973; McPeck, 1965; Milner and others, 2005; Owen, 1969; Pampe, 1973; Penttila, 1964; Siems, 1964; Smith, 1983; Stapor, 1972; Tanner, 1968, 1970, 1971, 1972.

San Juan Mountains—Baars and Stevenson, 1984; Bird, 1972; Bridges and McCarthy, 1990; Evans, 2002; Fenton and Faure, 1970a, 1971; Gries, 1985; Mack and Miller, 1980; Maslyn, 1977; Weimer, 1982.

San Juan Sag—Brister and Chapin, 1994; Gries, 1985; Sinclair, 1964.

San Juan Volcanic Field—Brister and Chapin, 1994; Gornitz, 1982; Gries, 1985; Sinclair, 1964.

San Luis Basin—Ahlbrandt and others, 1994; Bridges and McCarthy, 1990; Brister and Chapin, 1994; Gries, 1985; Johnson, 1968; MacLachlan and Kleinkopf, 1969; Siems, 1964.

San Rafael Uplift—Blakey, 1973; Eaton and others, 1990; Matheny and Picard, 1985; Ochs and Chan, 1990; Olsen, 1995; Royse, 1996.

Sand Wash Basin—Chenoweth, 1978; Childers, 1974; Collins, 1971; Donnell, 1965; Hansen, 1984; Krummel, 1973; Longman and others, 1998; Luft, 1985; Millison, 1965; Tyler and others, 1997; Weber, 1971.

Sandy Bend Arch—Tyler and others, 1997.

Sangre de Cristo Mountains—Brister and Chapin, 1994; Gries, 1985; Johnson and Bolyard, 1969; Karig, 1964; Lindsey, 1998; Munger, 1965a; Schavran, 1985; Siems, 1964.

Sanpete-Sevier Valley—Witkind and Page, 1984.

Santa Fe Embayment—Siems, 1964.

Sapphire Mountains—Woodward, 1993.

Saskatchewan—Nolte, 1967; Davis, 2005.

Saudi Arabia—Ahlbrandt and others, 1994.

Sawatch Range—Boardman, 1976; Bush and Bush, 1974; Campbell, 1970; Chenoweth, 1978; Chronic, 1964; DeVoto and Maslyn, 1977; Pampe, 1973; Reinking and Hoeksema, 1980; Thompson and Pulfrey, 1973; Wong, 1991.

Sawtooth Range—Bibler and Schmitt, 1986.

Sedgwick Basin—Rogers and others, 1995.

Seminole Mountains—Bergh and Snoke, 1992.

Sevier Plateau—Witkind and Page, 1984.

Sevier Thrust Belt—Royse, 1996.

Shell Mountain—Kenny and Krinsley, 1998.

Shirley Basin—Childers, 1974; Harshman, 1972a, 1972b; Larsen, 1972; Merewether, 1983; Merewether and others, 1979; Rackley, 1972.

Shirley Mountains—Bergh and Snoke, 1992.

Sierra Blanca Mountains—Gornitz, 1982.

Sierra Madre—Gries, 1981.

Sierre Grande Uplift—Matson and Schneider, 1968.

Slate Range—Mueller and others, 1979.

Slot Canyon—Kurtz and others, 2001.

Smoky Hills—Hattin, 1977.

Snake Mountains—Paull and Paull, 1998.

Snapple-Sevier Valley—Witkind, 1992.

Snowcrest Range—McDowell, 1998.

Snowy Range—McCallum, 1968.

South Dakota—Cicimurri, 2001; Cicimurri 2004; Longman and Johnson, eds., 1999; Petty, 2003.

South Park—Anderson, 1970; Bush and Bush, 1974; Calkin and others, 1972; Chapin and Epis, 1964; Clement and Dolton, 1970; De Voto, 1964, 1965, 1972; Ettinger, 1964; Gerhard and others, 1970; Harms, 1964; Le Roy, 1964; Lozano, 1967;

Malan, 1969; Murray and others, 1968; Sawatzky, 1964, 1972; Trimble, 1964; Weimer, 1970; Yacoub, 1965.

Southwest Montana—Abplanalp and others, 2009; Basu and others, 1998; Catanzaro, 1967; Dyman and Tysdal, 1998; Graham and Suttner, 1974; McDowell, 1988; Thomas and others, 1996.

Spanish Peaks—Gornitz, 1982; Johnson and Bolyard, 1969; Lindsey, 1998.

Sunlight Canyon—Beebee and Cox, 1998.

Sweetgrass Arch—Bibler and Schmitt, 1986; Dolson and others, 1993; Hite, 1978; Swetland and others, 1978.

Sweetwater Arch—Rackley, 1972.

Swift Current Platform—Nolte, 1967.

Tallahassee Creek—Chapin and Epis, 1964; Malan, 1969.

Taos Plateau Volcanic Field—Gornitz, 1982.

Tavaputs Plateau—Kauffman, 1977b.

Taylor Park—Bush and Bush, 1974.

Taylor Wash syncline—Mark and Requist, 1969a.

Teasdale Uplift—Blakey, 1973.

Tendoy Mountains—McDowell, 1998; M'Gonigle and Dalrymple, 1993.

Teton Mountains—Harrington, 1985; Reeves, 1964; Zartman and Reed, 1998.

Texas Creek—Munger, 1965a.

Texas—Fera, 1965; Harshman, 1972a; Mohorich, 1971; Rascoe, 1968.

Thirtynine Mile Volcanic Field—Chapin and Epis, 1964; Dickinson, 1981; Malan, 1969.

Thrust Belt—see Overthrust Belt

Tie Siding area—Eggler, 1967.

Tobacco Root Mountains—Graham and Suttner, 1974; Malone and Suttner, 1992; Matthews, 1986a.

Trans-Pecos Texas Volcanic Field—Gornitz, 1982.

Trout Creek Pass—DeVoto, 1965.

Tusas Range—Wobus and Hedge, 1982.

Ucayali Basin—Doeringsfeld and Ivey, 1964.

Uinta Basin—Baars and Campbell, 1968; Byrnes, 1997; Chatfield, 1965; Curtis, 1994; Cuzella and Stancel, 2006; Donnell, 1965; Dyni and Goodwin, 1972; Frey and Howard, 1982; Garner, 1997; Hansen, 1984; Juhan, 1965; Kauffman, 1977b; Longman and others, 2003; Morgan and Bereskin, 2003; Munger, 1965b; Nelson, 2002a; Olsen, 1995; Osmond, 2000; Osmond, 2003; Royse, 1996; Sanborn and Goodwin, 1965; Schmoker and others, 1996; Swetland and others, 1978; Townsend and others, 2006; Van Deventer and Picard, 1975.

Uinta Mountains—Fryberger, 1979; Gries, 1981; Hansen, 1984, 1985; Kauffman, 1977b; Kirschbaum and others, 1994; Larsen, 1972; Matthews, 1986a; Mayer, 1964; Merewether, 1983; Parker, 1966; Ryer, 1977; Sanderson, 1984; Sanderson and Wiley, 1986; Sikich, 1965; Swetland and others, 1978; Van Deventer and Picard, 1975; Weber, 1971.

Uncompahgre Trough—Hite, 1972.

Uncompahgre Highland—DeVoto, 1965.

Uncompahgre Plateau—Baars and Stevenson, 1984; Bartleson and Jensen, 1988; Chenoweth, 1978; Dubiel and others, 1989; Gries, 1981; Mack, 1977; Matthews, 1986a; Weimer, 1982; Wong and Humphrey, 1986.

Uncompahgre Uplift—Moore and others, 2008; Thomas, 1971.

Utah—Bernier and Chan, 2006; Garner, 1997; Hansen and others, 1980b; Lamarre, 2006; Lamarre and Pratt, 2002; Longman and Johnson, eds., 1999; Robertson and O’Sullivan, 2001.

Valley Mountains—Witkind, 1992; Witkind and Page, 1984.

Ventura Basin—Hite, 1978; Stone, 1970.

Virgin Islands—Gerhard, 1978.

Wadden Sea, Netherlands—MacKenzie, 1972.

Wamsutter Arch—Tyler and others, 1997.

Wasatch Plateau—Howard, 1969; Matheny and Picard, 1985; Mattox and Weiss, 1987; Olsen, 1995; Witkind, 1992; Witkind and Page, 1984.

Wasatch Range—Hansen, 1998; Kauffman, 1977b; Marsh and Smith, 1997; Ritzma and Kaliser, 1977; Ryer, 1977; Smith and Marsh, 1998; Swetland and others, 1978.

Washakie Basin—Byrnes, 1997; Donnell, 1965; Flores, 1978; Kirschbaum and others, 1994; Levey, 1992; Merewether, 1983; Rhodes and others, 2006; Tyler and others, 1997.

Washakie Range—Gries, 1981; Martin and others, 1992; Sanderson, 1984.

West Elk Mountains—Bridges and McCarthy, 1990; Wong, 1991.

Western Canada Sedimentary Basin—Higley and others, 2005; Johnson, 1995; Young and others, 2006; Zaitlin and Moslow, 2006.

Western Interior Basin—Cicimurri, 2000; Egbert, 1990; Kauffman, 1969, 1977a, 1977b, 1977c; Landon and others, 2001; Longman and others, 1998; Martz, 1996; Scott and Taylor, 1977; Scott and others, 2004.

Western Kansas Basin—Frey and Howard, 1982; Hattin, 1977; Scott, 1977.

Western Nebraska—Longman and Johnson eds., 1999.

Wet Mountain Valley—Chapin and Epis, 1964; Gerhard, 1968; Munger, 1965a; Murray and others, 1968; Siems, 1964.

Wet Mountains—Armbrustmacher and others, 1979; Cooperrider and Heinrich, 1978; Heinrich, 1977; Heinrich and Salotti, 1975; Kauffman, 1977b; Mark and Requist, 1969b; Noblett, 1987; Odien, 1998; Ramirez L., 1974; Reuss, 1974.

White River Plateau—Bridges and McCarthy, 1990; Bush and Bush, 1974; Campbell, 1970; Conley, 1965; Gries, 1981; Harper, 1966; Kauffman, 1977b; Nuccio and others, 1989; Tyler and Campbell, 1975.

White Sands National Monument—Walker and Harms, 1972.

Wichita Mountains—Ham, 1964.

Williston Basin—Dean, 1987; Gerhard, 1967; Gerhard and Anderson, 1979; Hayes, 1985; Hite, 1978; Jarvie, 2001; Johnson, 1995; Johnson, 2001; Landon and others, 2001; Longman, 1996; Nolte, 1967; Petty, 2006; Schmoker, 1996.

Wilson Park—Reuss, 1974.

Wind River Basin—Allison, 1966; Bitter, 1986; Blundell and Marrs, 1991; Byrnes, 1997; Childers, 1974; Curtis, 1994; Erslev, 1985; Estes-Jackson and others, 2000; Flemings and Nelson, 1991; Gay, 1999; Gillespie and Fox, 1991; Gopinath, 1978;

Gries, 1981; Gudim, 1966; Hawkins and Baugh, 2006; High and Picard, 1967; Hogle and Jones, 1991; Keefer, 1965; LeGrand and others, 2006; Martin and others, 1992; Merewether, 1983; Merewether and others, 1979; Mitchell, 1976; Natali and others, 2000; Nettleton and Chadwick, 1991; Newman, 1965a; Paylor and others, 1989; Rackley, 1972; Robertson, 1984; Shelton and Ross, 1971; Spang and others, 1985; Stone, 1972; Stucky and Krishtalka, 1991; Vredenburg and Cheney, 1970.

Wind River Mountains—Catanzaro, 1967; Flemings and Nelson, 1991; Gries, 1981; Kirschbaum and others, 1994; Martin and others, 1992; Matthews, 1986a; Paylor and others, 1989; Steidtmann and Middleton, 1986.

Wyoming Shelf—Allison, 1966; Stone, 1970; Zartman and Reed, 1998.

Wyoming—Cicimurri, 2000; Cicimuri, 2001; Cicimuri, 2004; Dallegge, 2008; Hansen and others, 1980a; Harshman, 1972a; King and others, 2009; Leier and Steidtmann, 2009; Lillegraven and McKenna, 2008; Longman and Johnson, eds., 1999; Parker and Bortz, 2001; Pasternack, 2005; Rackley, 1972; Roberts and others, 2004; Stone, 2002, 2004a, 2004b, 2005a, 2006a.

Yampa Plateau—Fryberger, 1979.

Yellowstone National Park—Dallegge, 2008.

Yellowstone Plateau—Hansen, 1985.

Yucatan Shelf—Brady and Ward, 1974.

Zuni Mountains—Brookins, 1982; Brookins and others, 1978.

Part III—Topical Index

- Abiquiu Formation—Siems, 1964.
- Abnormal formation pressure—Levey, 1992; Mitchell and Rogers, 1993; Pickering and Indelicato, 1985.
- Abo Formation—Carr, 1985.
- Absaroka Thrust Fault—Geiser and others, 1988; Hurst and Steidtmann, 1986; M'Gonigle and others, 1995; Salat and Steidtmann, 1991; Schmitt, 1985.
- Absaroka Volcanic Field—Trimble, 1980.
- Absolute age—Baars and Stevenson, 1984; Boardman, 1976; Braddock and Peterman, 1989; Brister and Chapin, 1994; Brookins and others, 1978; Catanzaro, 1967; Collins and Collins, 1984; Cooperrider and Heinrich, 1978; Corbett, 1966; Dickinson, 1981; Fenton and Faure, 1970a, 1970b; 1971; Gornitz, 1982; Hansen, 1984; Hedge, 1967; Holm, 1987; Izett and Obradovich, 2001; Kauffman, 1977a; Kirchner, 1991; Kluth and Nelson, 1988; Larson and Amini, 1981; Lester, 1993; Luft, 1985; Madden, 1977; Mansholt, 1983; M'Gonigle and Dalrymple, 1993; M'Gonigle and others, 1995; Montgomery and Gray, 1989; Mueller and others, 1979; Mulholland and Kuryvial, 1992; Murray, 1975; Noblett, 1987; Randall, 1965; Sanderson, 1984; Sanderson and Wiley, 1986; Seeling, 1978; Steidtmann and Middleton, 1986; Tucker and Birdseye, 1989; Wallace, 1988; White, 1979; Wobus and Hedge, 1982; Woodward and others, 1978; Zartman and Reed, 1998.
- Belt Supergroup*—Woodward and Bell, 1995.
- East Kootenay orogeny*—Woodward and Bell, 1995.
- Frontier Formation*—M'Gonigle and others, 1995.
- Goat River orogeny*—Woodward and Bell, 1995.
- Plateau Rhyolite*—Dallegge, 2008.
- Skull Creek Formation (Shale)*—Graham and Ethridge, 1995.
- Taylor Creek Rhyolite*—M'Gonigle and others, 1995.
- Adaville Formation—Nichols and Jacobson, 1982; Ryer, 1977.
- Admire Group (Dolomite)—Rascoe, 1968; Sahl and others, 1993.
- Agate Creek Formation—DeVoto, 1964; Lozano, 1967.
- Alameda roadcut—MacKenzie, 1968; Hubert and Panish, 2000; Lockley and others, 2001.
- Albino Formation—Tysdal and others, 1989.
- Alcova Member—see Chugwater Formation.
- Algal buildups—Hite, 1972; Loudon and others, 2000.
- Algodones Dunes—Fryberger, 1979.
- Ali Baba Member—see Moenkopi Formation.
- Alkali Butte Member—see Mesaverde Formation.

Alkalic complex—Armbrustmacher and others, 1979; Heinrich, 1977; Heinrich and Salotti, 1975; Mueller and others, 1979.

Allen Hollow Shale Member—see Frontier Formation.

Allen Lake Field—Blackstone, 1994.

Alluvial deposits—Baker, 1973; Pearl, 1968.

Almond Formation—see Mesaverde Group.

Alpha Member—see Kaibab Formation.

Altyn (Limestone) Formation—see Belt Supergroup.

Amalia Formation—Siems, 1964.

Amarillo Uplift—Rascoe, 1968.

Amazon (Brown) Dolomite—see Chase Group.

Amsden Formation (Shale)—Bergh and Snoke, 1992; Erslev, 1985; Hares, 1988; Mallory, 1966a; Paylor and others, 1989; Reeves, 1964; Spang and others, 1985.

Ancestral Rocky Mountains—DeVoto, 1965; Ellis, 1966; Howard, 1966; Thomas, 1971; Walker and Harms, 1972; Weimer and Land, 1972b.

Ancestral Uncompahgre Uplift—Thomas, 1971.

Anderson coalbed—see Fort Union Formation—Tongue River Member.

Aneth Field—Hite and others, 1972.

Aneth Formation—Baars and Campbell, 1968.

Angao Formation—Jansma and others, 1991; Johnson and others, 1991.

Angelo Member—see Green River Formation.

Animal behavior—Murray, 1967.

Animas Formation—Brister and Chapin, 1994; Gries, 1985; Sinclair, 1964.

Ankareh Formation—Hurst and Steidtmann, 1986.

Anorthosite—Klugman, 1966.

Antelope Valley Limestone—McDowell, 1988.

Antero Formation—Chapin and Epis, 1964; De Voto, 1964; Lozano, 1967.

Antero Syncline—DeVoto, 1964; Lozano, 1967.

Antiquities—Hester, 1974.

Antler Basin—Isaacson and others, 2007.

Antler Orogeny—Gilmore, 1990; McDowell, 1988; Pekarek, 1988; Smith and Dorobek, 1989.

Anvil Points Member—see Green River Formation

Apache Creek Sandstone Member—see Pierre Shale.

Apache Springs Formation—Gornitz, 1982.

Apatite—Gulbrandsen, 1971.

Apishapa Arch—Lewis and others, 1969; Rascoe, 1968.

Appekunny Formation—see Belt Supergroup.

Aquifer—Alther, 1977; Clarey and others, 1998; Colorado Department of Health, 1971; Crifasi, 1992; Graham and VanSlyke, 2004; Kittleson, 1992, 2004; Novotny and Sanford, 2004; Raynolds, 2004; Smuin, 1990; Snow, 1973; Topper, 2004.

Arapaho Pass Fault—Dockal, 2005.

Arapahoe Formation—Crifasi, 1992; Novotny and Sanfore, 2004, Weimer, 1973.

Arapien Shale—Hite, 1978; Mattox and Weiss, 1987; Witkind, 1992; Witkind and Page, 1984.

Arbuckle Group—Clair and Volk, 1968; Stoddard, 1968.

Archaeology—Hester, 1974; Randall, 1965; Stamm and others, 2004.

Archuleta Anticlinorium—Brister and Chapin, 1994.

Argenta Complex—Marsh and Smith, 1997.

Arikaree Formation—Reade, 1976; Steidtmann and Middleton, 1986; Trimble, 1980.

Arikaree River—Pearl, 1971.

Arkansas River—Pearl, 1971.

Arlington Fault—Gries, 1981; Stone, 1984b, 1985.

Arminto Beds—see Wind River Formation.

Armstead Thrust—McDowell, 1998.

Ash Creek Anticline—Robinson and Barnum, 1986.

Ash Creek Field—Robinson and Barnum, 1986.

Ash flows—Corbett, 1966.

Ash Hollow Formation—see Ogallala Group.

Aspen Formation (Shale)—Dow, 1988; Dyman and others, 1988; Merewether, 1983; M'Gonigle, 1982; M'Gonigle and others, 1995; Nichols and Jacobson, 1982; Ryer, 1977; Schmitt, 1985; Tysdal and others, 1989.

Aspen Mining District—DeVoto and Maslyn, 1977.

Asphalt Ridge—Dyni and Goodwin, 1972.

Athabaska—Zarrela, 1966.

Atomic Energy Commission—Chenoweth, 1978.

Audubon-Albion Stock—Lester, 1993.

Axial Basin Uplift—Gries, 1981; Hansen, 1984.

Aztec Sandstone—Matthews, 1988, 1989.

Bacon Flat Field—Flanigan, 1988; Veal and others, 1988.

Bacon Ridge Sandstone—Blackstone, 1989; Leier and Steidtmann, 2009.

Badger Basin Field—Hares, 1988.

Baker Lake Porphyry—Yacoub, 1965.

Bakken Formation—Dolson and others, 1993; Gerhard and Anderson, 1979; Hayes, 1985; Johnson, 1995; Longman, 1996; Schmoker, 1996.

Bald Mountain Fault—Bergh and Snoke, 1992.

Balsas Group—Jansma and others, 1991; Johnson and others, 1991, 1992.

Bandelier Tuff—Gornitz, 1982.

Barker Dome Field—Gries, 1964.

Barnett Formation (Shale)—Johnson, 1995.

Bartine Member—see McColley Canyon Formation.

Basement structure—MacLachlan and Kleinkopf, 1969; Lewis and others, 1969.

Batholith—Dyman and others, 1988; Egger, 1967; McDowell, 1998; Smith and Marsh, 1998; Thompson and Pulfrey, 1973; Woodward, 1993.

Battle Spring Formation—Bailey, 1972; Childers, 1974.

Battleship Field—Haverfield, 1970.

Baxter Shale—Law and others, 1980.

Beacon Peak Dolomite—Schalla and Benedetto, 1991.

Bear River Formation—Nichols and Jacobson, 1982.

Bear Springs Formation—Gornitz, 1982.

Bearpaw Cyclothem—Kauffman and others, 1977.

Bearpaw Shale—Bibler and Schmitt, 1986; Hares, 1988.

Beartooth Uplift—Montgomery and Gray, 1989; Smith and Dorobek, 1989; Stone, 1983.

Bearwallow Formation—Gornitz, 1982.

Beaver Creek Thrust Fault—Hurst and Steidtmann, 1986.

Beaver Divide Conglomerate—Steidtmann and Middleton, 1986.

Beaver Shale Member—see Spearfish Formation.

Beaverhead Formation—Tucker and Birdseye, 1989.

Beckers Butte Sandstone—Teichert, 1968.

Belden Formation—Bridges and McCarthy, 1990; Chenoweth, 1978; Chronic, 1964; Nuccio and others, 1989.

Measured section—DeVoto, 1965.

Bell Canyon Formation—Cronoble, 1974.

Bell Creek Field—Gary and McGregor, 1968; Woncik, 1969.

Belle Fourche Member—see Frontier Formation.

Belt Supergroup—Constenius, 1988; Dyman and others, 1988; Graham and Suttner, 1974; Malone and Suttner, 1992; Thomas and others, 1996; Yin, 1991

Absolute age—Woodward and Bell, 1995.

Altyn (Limestone) Formation—Butler, 1983; Yin, 1991.

Appekunny Formation—Yin, 1991.

Chamberlain Shale—Woodward and Bell, 1995.

Greyson Shale—Woodward and Bell, 1995.

Helena Formation—Woodward, 1993.

Neihart Quartzite—Woodward and Bell, 1995.

Newland Limestone—Woodward and Bell, 1995.

Wallace Formation—Woodward, 1993.

Bend Arch—Johnson, 1995.

Bennett Mountain Fault—Bergh and Snoke, 1992.

Benton Group—Ettinger, 1964; Grose, 1972; Slatt and others, 1995.

Bentonite marker bed—Collins, 1987; Graham and Ethridge, 1995; Hattin, 1977; Kauffman and others, 1977; Merewether, 1983; Merewether and others, 1979; Nichols and others, 1987; Pasternack, 2005; Pollastro and Martinez, 1985; Seeling, 1978; Weimer, 1982.

Bentonite—Kauffman and others, 1969.

Berthoud Field—Longman and others, 1998; Sonnenberg and Weimer, 1993.

Core description—Longman and others, 1998.

Beta Member—see Kaibab Formation.

Beulah Limestone—Bridges and McCarthy, 1990; Foster and others, 1968; Ramirez L., 1974.

Measured section—Foster and others, 1968; Ramirez L., 1974.

Bidahochi Formation—Dallegge and others, 2003.

Big Cottonwood Group—Sanderson, 1984; Sanderson and Wiley, 1986.

Big Medicine Bow Fault—Stone, 1966.

Big Snowy Formation—Swetland and others, 1978.

Big Snowy Group—Petty, 2006; Webster and Waters, 2005.

Big Springs Fault—Cepeda, 1994.

Bighole Field—Krummel, 1973.

Bighorn Dolomite—Erslev, 1985; Hares, 1988; Hurst and Steidtmann, 1986; Martin and others, 1992; Merin and Lindholm, 1986; Paylor and others, 1989; Reeves, 1964; Spang and others, 1985.

Bighorn Uplift—Hansley and Brown, 1993.

Bijou Field—Scobey, 1964

Bioherm—Johnson, 1995.

Biogenic natural gas—Kelso and others, 2006.

Biomarkers—Jarvie, 2001.

Biostratigraphy—Abplanalp and others, 2009; Lillegraven and McKenna, 2008; Nichols, 2009; Townsend and others, 2006.

Bird Field—Sahl and others, 1993.

Bird Spring Group—Mansholt, 1983.

Birdbear Formation—Gerhard and Anderson, 1979.

Birdbear Member—see Jefferson Formation.

Bisbee Group

Glance Conglomerate—Roybal, 1981.
Mural Limestone—Roybal, 1981.
Bishop Conglomerate—Hansen, 1984, 1985; Weber, 1971.
Black Bank Field—Gary and McGregor, 1968.
Black Butte Tongue—see Rock Springs Formation.
Black Creek Member—see De Chelly Sandstone.
Black Dragon Member—see Moenkopi Formation.
Black Hills Uplift—Hansley and Brown, 1993.
Black Rock Surface—Martin and others, 1992.
Blackburn Field—Flanigan, 1988; Pekarek, 1988.
Blackhawk Formation—see Mesaverde Group.
Blackleaf Formation—Dyman and others, 1988.
 Bootlegger Member—Tysdal and others, 1989.
 Flood Member—Tysdal and others, 1989.
 Measured section—Dyman and Tysdal, 1998.
 Taft Hill Member—Tysdal and others, 1989.
 Vaughn Member—Tysdal and others, 1989.
Blacktail-Snowcrest Uplift—Dyman and others, 1988; McDowell, 1998.
Blaine Anhydrite—see Lykins Formation.
Blair Formation—see Mesaverde Group.
Blairmore Formation—Nolte, 1967.
Blanco Basin Formation—Brister and Chapin, 1994; Gries, 1985.
Bloom Member—see Snaky Canyon Formation.
Blue Gate Shale Member—see Mancos Shale.
Blue Hill Shale Member—see Carlile Shale.
Bluff Formation—Gries, 1985.
Bonanza King Formation—Axen, 1989; Foster, 1994; Matthews, 1988, 1989.
Bonanza-Nowood Thrust-Fold—Hares, 1988; Stone, 1987.
Bonanza-Zeisman Fault Zone—Stone, 1987.
Bonnaterre Dolomite—see Arbuckle Group
Boone Camp Field—Johnson, 1995.
Bootlegger Member—see Blackleaf Formation.
Borrego Pass Lentil—see Crevasse Canyon Formation
Bottineau Interval—Johnson, 1995.
Bouguer gravity—Eggler, 1967.
Boulder Batholith—Dyman and others, 1988; Woodward, 1993.
Boulder Creek Granite—Cooperrider and Heinrich, 1978.

Boulder-Weld Coal Field—Carroll, 2009; Davis, 1985; Kittleson, 1992; Schillawski, 2009; Sherman, 2009.

Boulder-Weld Fault Zone—Kittleson, 1992, 2009.

Bowar Reef Complex—Johnson, 1995.

Box Creek Syncline—Blackstone, 1989.

Boxer Field—Tobison, 1967.

Brady Canyon Member—see Toroweap Formation.

Brandon Axis—Clair and Volk, 1968.

Brandon Field—Plant and others, 1971; Sonnenberg, 1985; Stoddard, 1968.

Brave Dog Thrust Fault—Yin, 1991.

Brazer Formation (Limestone)—Hite, 1978; Schleh, 1968.

Brazos Uplift—Brister and Chapin, 1994.

Breccia pipe—Huntoon, 1996.

Breccia Pluton—Mueller and others, 1979.

Bridge Creek Limestone Member—see Greenhorn Limestone/Formation.

Bridge Spring Tuff—Mansholt, 1983.

Bridger Formation—Brand, 2007; Steidtmann and Middleton, 1986.

Bridger Lake Fault—Parker, 1966.

Brigham Group—Hansen, 1985; Hurst and Steidtmann, 1986; Salat and Steidtmann, 1991.

Bright Angel Fault—Cepeda, 1994.

Bright Angel Shale—Foster, 1994.

Broadway Alluvium—Pearl, 1968.

Broken Rib Member—see Chaffee Group.

Bromine—Raup, 1972.

Browns Park Formation—Chenoweth, 1978; Hansen, 1984, 1985; Luft, 1985; Weber, 1971.

Brownstone Basin Fault—Matthews, 1989.

Brule Formation—see White River Group.

"Bubble gum" shale—Sahl and others, 1993.

Buck Canyon zone—see Wasatch Formation.

Buckhorn Conglomerate Member—see Cedar Mountain Formation.

Buckner Formation—Hite, 1978.

Buffalo Basin Anticline—Hares, 1988.

Buffalo drift—Martin and others, 1992.

Bull Moose Field—Gerhard and Anderson, 1979.

Bullpen Member—see Wasatch Formation.

Bumback Gulch Fault—Cooperrider and Heinrich, 1978.

Burial history—Atwater, 1966; Roberts and others, 2004; Royse, 1996.

Burlington Limestone—Johnson, 1995; Rogers and others, 1995.

Burned Mountain Metarhyolite—Wobus and Hedge, 1982.

Burnt Gulch Formation—Martin and others, 1992.
Measured section—Martin and others, 1992.

Burro Canyon Formation—Gries, 1985.

Byron Field—Hares, 1988.

Caddo Formation—Johnson, 1995.

Cadiz Formation—Foster, 1994.
Measured section—Foster, 1994.

Caldera—Bird, 1972; Chapin and Epis, 1964.

Cambridge Arch—Hattin, 1977; Rogers, 1975.

Cameron Graben—Holm, 1987.

Camp Creek Syncline—Blackstone, 1994.

Canadian River Field—Haverfield, 1970.

Canal Field—Garbarini, 1964; Silverman, 1988.

Canyon City prong—Gerhard, 1968.

Canyon coalbed—see Fort Union Formation—Tongue River Member.

Canyon Springs Member—see Sundance Formation.

Capirote Pluton—White, 1979.

Capitan Limestone—Cronoble, 1974.

Carbonates, modern—Brady and Ward, 1974.

Carbonatite—Armbrustmacher and others, 1979; Heinrich, 1977; Heinrich and Salotti, 1975.

Carbondale Collapse Center—Kirkham and others, 2001.

Carlile Formation—see Mancos Group

Carlile Shale—Ahlbrandt and Groen, 1987; Cicimurri 2004; Kauffman, 1969; Kauffman and others, 1969; Kirchner, 1991; Krutak, 1970; Sonnenberg, 1982; Woodward, 1997.
Blue Hill Shale Member—Eicher, 1977; Hattin, 1977; Kauffman, 1977b; Kauffman and others, 1977.
Codell Sandstone Member—Davis, 1985; Edwards, 1976; Eicher, 1977; Hattin, 1977; Kauffman, 1977b; Kauffman and others, 1977; Krutak, 1970; Longman and others, 1998; Sonnenberg and Weimer, 1993.
Fairport Chalky Shale Member—Eicher, 1977; Hattin, 1977; Kauffman, 1977b; Kauffman and others, 1977; Weimer, 1982.
Juana Lopez Member—Kauffman, 1977b; Kauffman and others, 1977.
Measured section—Krutak, 1970; Hattin, 1977.

Pool Creek Member—Merewether and others, 1979.

Sage Breaks Shale Member—Evetts, 1976; Kauffman and others, 1977; Merewether and others, 1979; Mitchell and Rogers, 1993.

Turner Sandy Member—Evetts, 1979; Merewether and others, 1979 Mitchell and Rogers, 1993.

Upper shale member—Kauffman and others, 1977.

Carlin Canyon Syncline—Jansma and Mattioli, 1994.

Carlin Gold Trend—Jansma and Mattioli, 1994.

Carlsbad Formation—Cronoble, 1974.

Carmel Formation—Garner, 1997; Royse, 1996.

Carrington shale facies—see Bottineau Interval.

Carrizozo Basalt—Gornitz, 1982.

Carson Field—Stone, 1972.

Casper Arch—Flemings and Nelson, 1991; Gillespie and Fox, 1991; Gries, 1981; Hansley and Brown, 1993; Hogle and Jones, 1991; Merewether, 1983; Moore, 1975; Stone, 2006a.

Casper Formation—Adams and Patton, 1979; Blackstone, 1984; Stone, 1985.

Cassa Formation—Ahlbrandt and Groen, 1987.

Castile Formation—Shaw, 1977.

Castle Butte Member—see Leadville Limestone.

Castle Fault—Clarey, 1990.

Castle Rock Conglomerate—see White River Group.

Castlegate Sandstone—see Mesaverde Group.

Cathedral Bluffs Tongue—see Wasatch Formation.

Cattle Creek Anticline—Mallory, 1966b.

Caves—Randall, 1965.

Cave Gulch Field—LeGrand and others, 2006.

Cedar Mesa Sandstone Member—see Cutler Formation.

Cedar Mountain Fault system—Tyler and others, 1997.

Cedar Mountain Formation—Eaton and others, 1990; Mattox and Weiss, 1987; McPeck, 1965; Munger, 1965b; Witkind, 1992.

Buckhorn Conglomerate Member—Eaton and others, 1990.

Cedar Ridge Dome—Grannell and Showalter, 1991; Paylor and others, 1989.

Cedar Ridge Fault—Hogle and Jones, 1991; Stucky and Krishtalka, 1991.

Cedar Valley Field—Garbarini, 1964; Shenk, 1971; Silverman, 1988.

Cement raw materials—Pritchett, 1994.

Cementation—Adams and Patton, 1979; Bitter, 1986; Breyer, 1983; Fryberger, 1979; Hansley and Johnson, 1980; Keighin and others, 1993; Matheny and Picard,

1985; Merin and Lindholm, 1986; Ochs and Chan, 1990; Sanderson and Wiley, 1986; Schmoker and Schenk, 1988; Smith and Dorobek, 1989; Tubbs, 1989.

Central Colorado Trough—DeVoto, 1965.

Central Kansas Uplift—Hattin, 1977; Rogers and others, 1995; Sonnenberg, 1985.

Central Montana Uplift—Smith and Dorobek, 1989.

Chadron Formation—see White River Group

Chaffee Formation/Group—Baars and Campbell, 1968; Campbell, 1970; Chronic, 1964; DeVoto and Maslyn, 1977; Thomas, 1971.
Measured section—Thomas, 1971.

Chainman Shale—Gilmore, 1990; Pekarek, 1988; Veal and others, 1988.

Chalk Bluff Formation—Cronoble, 1974.

Chalk Creek Member—see Frontier Formation

Challis Volcanic Group—M'Gonigle and Dalrymple, 1993; Tucker and Birdseye, 1989.

Chamberlain Shale—see Belt Supergroup.

Chambless Formation—Foster, 1994.

Chamita Formation—Izett and Obradovich, 2001.

Chan Field—Oldham, 1997.

Chapala-Oaxaca Fault Zone—Johnson and others, 1991.

Chapita zone—see Wasatch Formation.

Characharando Volcanic Series—Johnson and others, 1991.

Characo Anticline—Johnson and others, 1991, 1992; Monod and others, 1992.

Charles Formation—see Madison Group.

Chase Group—Rascoe, 1968.
Amazon (Brown) Dolomite—Sahl and others, 1993.

Chat—Rogers and others, 1995.

Chattanooga Shale—Johnson, 1995.

Cherokee Formation (Group)—Clair and Volk, 1968; Plant and others, 1971; Rogers and others, 1995; Stoddard, 1968.

Cherry Creek Field—Gerhard and Anderson, 1979.

Cherry Gulch Slide—LeRoy and Grose, 1967.

Chertification—Jansma and Mattioli, 1994; Rogers and others, 1995.

Chester Fault—Chenoweth, 1978.

Chestnut Ridge Anticline—Geiser and others, 1988.

Cheyenne Group—Ahlbrandt and Groen, 1987; Scott and Taylor, 1977.

Cheyenne Wells Field—Ramirez L., 1974.

Chihuahua Trough—Roybal, 1981.

Chimney Rock Tongue—see Rock Springs Formation.

Chinle Formation—Dubiel and others, 1989; Matthews, 1989; Nuccio and others, 1989; Rascoe, 1968; Ritzma and Kaliser, 1977; Robertson and O’Sullivan, 2001; Sikich, 1965; Tanner, 1970.
Moss Back Member—Mitchell, 1985.
Rock Point Member—Robertson and O’Sullivan, 2001.
Shinarump Member—Lauman, 1966; Mitchell, 1985; Stanesco, 1991.

Chipaque Formation—Hite, 1978.

Chondrichthyans—Cicimurri 2004.

Chriss/Mellor Graben—Mattox and Weiss, 1987.

Chromo Anticline—Conley, 1964.

Chronostratigraphy—Dallegge and others, 2003.

Chubb Member—see Maroon Formation

Chugwater Formation (Group)—Ahlbrandt and Groen, 1987; Blackstone, 1984, 1989, 1994; Hares, 1988; High and Picard, 1967; Martin and others, 1992; Paull and Paull, 1998.
Alcova Member—Paylor and others, 1989.
Crow Mountain Member—Paylor and others, 1989.

Cienaguitas Formation—Johnson and others, 1991.

Cimarron Fault—Brister and Chapin, 1994; Wong and Humphrey, 1986.

Cimarron Ridge Formation—Brister and Chapin, 1994.
Absolute age—Brister and Chapin, 1994.

Circle Bar Formation—Steidtmann and Middleton, 1986.

Circle Cliffs Uplift—Mitchell, 1985.

Circle Surface—Martin and others, 1992.

Cisco Dome—Baars and Stevenson, 1984.

Clagget Cyclothem—Kauffman and others, 1977; Kirschbaum, 1986.

Clagget Shale—Hares, 1988.

Clay Spur Bentonite bed—see Mowry Shale.

Clear Creek Thrust—Hoy and Ridgway, 1998.

Clearwater Group—Zarrela, 1966.

Cliff House Sandstone—Manfrino, 1984.

Climax mine—Calkin and others, 1972.

Clinetop Algal Limestone Member—see Dotsero Formation.

Cloverly Formation—Blackstone, 1984, 1989, 1994; Cardinal, 1970; Chen and Lubin, 1997; Hares, 1988; Paylor and others, 1989; Young, 1970.

Coal Creek Anticline—Chenoweth, 1978.

Coal Creek Fault Zone—Kittleson, 1992.

Coalbed methane—Carlton, 2006; Curtis, 1994; Hogle and Jones, 1991; Lamarre, 2006; Stenberg and Doll, 2006; Tyler and others, 1997.

Coal—Bailey, 1972; Carroll, 2009; Clarke, 1965; De Voto and Larsen, 1972; Dyni and Goodwin, 1972; Flores, 1978; Flores and Erpenbeck, 1981; Flores and Tur, 1982; Gillespie and Fox, 1991; Hogle and Jones, 1991; Howard, 1969; Jurie and Gerhard, 1969; Kaplan and others, 1983; Kirschbaum, 1986; Kittleson, 1992; Laubach and others, 1993; Madden, 1985; Manfrino, 1984; Merin and Lindholm, 1986; M'Gonigle, 1982; Olsen, 1995; Pillmore, 1969; Pritchett, 1994; Robinson and Barnum, 1986; Schillawski, 2009; Schmitt, 1985; Sholes and Cole, 1981; Tyler and others, 1997.

Coalville Anticline—Ritzma and Kaliser, 1977; Ryer, 1976.

Coalville Member—see Frontier Formation

Cochetopa District—Chenoweth, 1978.

Coconino Sandstone—Sorauf and Billingsley, 1991.

Codell Sandstone—see Carlile Shale

Cody Shale—Blackstone, 1989; Hares, 1988; Hogle and Jones, 1991; Lang and others, 1991; Paylor and others, 1989; Stone, 1983.

Niobrara Member—Merewether and others, 1979.

Sage Breaks Shale Member—Merewether and others, 1979.

Coff Field—Gerhard and Anderson, 1979.

Coffee Pot Member—see Chaffee Group

Coffman Formation

Measured section—DeVoto, 1965.

Coffman Ridge Anticline—DeVoto, 1964.

Coils Creek Member—see McColley Canyon Formation.

Cokeville Anticline—Salat and Steidtmann, 1991.

Collapse structures—Huntoon, 1996.

Colorado College—Murray and others, 1968.

Colorado Lineament—McGuire and others, 1982; Silverman, 1988; Wong and Humphrey, 1986.

Colorado Mineral Belt—Brister and Chapin, 1994; Caine and others, 2006; Lester, 1993; Silverman, 1988.

Colorado School of Mines—Murray and others, 1968.

Colorado State University—Murray and others, 1968.

Colton Formation—Olsen, 1995; Witkind, 1992; Witkind and Page, 1984.

Columbia Heights Anticline—Edwards, 1976.

Comissary Thrust Fault—Hurst and Steidtmann, 1986.

Como Bluff-Pinto Creek Anticline—Blackstone, 1994.

Compaction fracturing—Laubach and others, 1993.

Computer applications—Dow, 1988; Egbert and Armstrong, 1970; Geiser and others, 1988; Grannell and Showalter, 1991.

Conejos Formation—Gries, 1985.

Conodonts—Paull and Paull, 1998.

Construction—Leroy, 1966.

Contact metamorphism—Lester, 1993.

Contact Thrust Fault—Axen, 1989; Matthews, 1988.

Cook coalbed—see Fort Union Formation—Tongue River Member.

Copper World Pluton—Mueller and others, 1979.

Corcoran Sandstone Member—see Iles Formation.

Cordilleran Thrust—Thomas and others, 1996.

Core analysis—Al-Raisi and others, 1996; Dubois, 1996; Johnson, 1995; Keighin and others, 1993; Rogers and others, 1995.

Corley Anticline—Grannell and Showalter, 1991.

Corral Creek Field—Johnson, 1988.

Cotter Mill—Alther, 1977.

Cottonwood Creek Fault—Blundell and Marrs, 1991; Coalson and Inden, 1990; Rogers, 1971.

Cottonwood Creek Field—Coalson and Inden, 1990; Stone, 1972.

Cottonwood Embayment—Coalson and Inden, 1990.

Cottonwood Fault—Axen, 1989; Matthews, 1988.

Cottonwood Wash Member—see Needle Range Formation.

Coulson Tongue—see Rock Springs Formation.

Council Grove Group—Rascoe, 1968.

Wykert Sandstone—Sahl and others, 1993.

Cowden Anticline—Bergh and Snoke, 1992.

Cowden Fault—Bergh and Snoke, 1992.

Cowley facies—Rogers and others, 1995.

Cozzette Sandstone Member—see Iles Formation.

Crampton Mountain-Twin Mountain Pluton—Noblett, 1987.

Crandall Canyon Thrust Fault—Ryer, 1977.

Crawford Thrust Fault—Hurst and Steidtmann, 1986; Salat and Steidtmann, 1991.

Crazy Hollow Formation—Mattox and Weiss, 1987; Witkind, 1992.

Crazy Jug Monocline—see West Kaibab Monocline.

Creede-La Garita-Bachelor-San Luis Caldera Complex—Gries, 1985.

Crestone Conglomerate—Munger, 1965a.

Crevasse Canyon Formation—Correa, 1970.

Measured section—Correa, 1970.

Crinoid—Itano and Bateman, 2001; Itano and others, 2003; Webster and Elliott, 2004.

Cripple Creek Arch—Gerhard, 1968.

Cripple Creek Granite—Reuss, 1974.

Cripple Creek mining district—Koschman, 1972.

Crooks Gap Field—Bailey, 1972.

Cross Mountain Anticline—Hansen, 1984.

Crow Creek Member—see Pierre Shale.

Crow Mountain Formation—High and Picard, 1967.

Crow Mountain Member—see Chugwater Formation.

Crust—Riecker, 1966.

Crystallography—Murray and others, 1968.

Cuba Mesa Member—see San Jose Formation.

Cuchara Formation—Lindsey, 1998; Siems, 1964.

Culebra Thrust—Lindsey, 1998.

Currant Creek Formation—Hansen, 1984.

Curtis Shale—Stone, 1994.

Cutbank Field—Dolson and others, 1993.

Cutbank Sandstone Member—see Kootenai Formation.

Cutler Formation—Baars and Stevenson, 1984; Moore and others, 2008; Weimer, 1982.

Cedar Mesa Sandstone Member—Baars, 1991; Loope and Verville, 1990; Mack, 1977.

Halgaito Member—Mack, 1977.

Organ Rock Member—Mack, 1977; Tubbs, 1989.

White Rim Sandstone Member—Mitchell, 1985; Ochs and Chan, 1990; Tubbs, 1989.

Cyclical sedimentation—Ahlbrandt and others, 1994; Carr, 1985; Coalson and Inden, 1990; Gerhard, 1967; Hattin, 1977; Hite, 1972; Kauffman, 1969, 1977b; Manfrino, 1984; Matheny and Picard, 1985; Morris, 1975; Schmoker and Schenk, 1988; Smith and Dorobek, 1989.

Dad Sandstone Member—see Lewis Shale.

Dakota Formation (Group)—Alther, 1977; Blackstone, 1984, 1994; Brister and Chapin, 1994; Cardinal, 1970; Chancellor, 1964, 1967; Clement and Dolton, 1970; De Voto and Larsen, 1972; Dubois, 1996; Eaton and others, 1990; Egbert and Armstrong, 1970; Ettinger, 1964; Garbarini, 1964; Geyer, 1972; Gries, 1985; Griffith, 1965; Grose, 1972; Haverfield, 1970; Kauffman, 1969, 1977b; Kauffman and others, 1969, 1977; Lauman, 1966; LeRoy, 1965; Levey, 1992; Lockley and others, 2001; MacKenzie, 1968, 1971, 1972; Matuszcak, 1973; McPeck, 1965; Mettler, 1966; Millison, 1964; Moore, 1984; Munger, 1965b; Nuccio and others, 1989; Odien, 1998; Owen, 1969; Parker, 1966; Pritchett, 1994; Scobey, 1964;

Scopel, 1964; Sinclair, 1964; Stone, 1966, 1972, 1984b; Tobison, 1967; Weimer, 1970; Weimer and Grose, 1973; Weimer and Land, 1972a; Woodward, 1997; Young, 1970.

Absolute age—Graham and Ethridge, 1995.

D Sandstone—Silverman, 1988; Sonnenberg, 1982.

Dakota Silt—Mitchell, 1976.

Huntsman Shale—Reinert and Davies, 1976; Silverman, 1988; Sonnenberg, 1982.

J Sandstone—Ahlbrandt and Groen, 1987; Reinert and Davies, 1976; Silverman, 1988.

Janssen Clay Member—Hattin, 1977.

Lakota Formation—Silverman, 1988.

Lytle Formation—Graham and Ethridge, 1995; McPeck, 1965; Odien, 1998; Silverman, 1988.

Measured section—Ecker, 1971; Graham and Ethridge, 1995; Hattin, 1977; Owen, 1969; Shenk, 1971; Weimer and Land, 1972a.

Mowry Shale—Berg, 1976; Lin, 1981; Silverman, 1988.

Muddy Sandstone—Berg, 1976; Gries, 1981; Lin, 1981.

Plainview Sandstone Member—Graham and Ethridge, 1995; Kurtz and others, 2001; Silverman, 1988.

Road log—Mark and Requist, 1969a

Skull Creek Formation—Berg, 1976; Graham and Ethridge, 1995; Lin, 1981; Mitchell, 1976; Mitchell and Rogers, 1993; Reinert and Davies, 1976; Silverman, 1988.

South Platte Formation—Lockley, 1987.

Daly Field—Johnson, 1995.

Dams—Newton, 1964.

Danforth Hills Anticline—Stone, 1994.

Darby Formation—Reeves, 1964.

Darby Thrust Fault—Hurst and Steidtmann, 1986; Schmitt, 1985.

Dawson aquifer—Crifasi, 1992.

Dawson Formation (Arkose)—Bergh and Snoke, 1992; Crifasi, 1992; Grose, 1972; Kluth and Nelson, 1988; Leonard and Langford, 1994; Trimble, 1980; Wallace, 1988.

De Chelly Sandstone—Adams and Patton, 1979; Stanesco, 1991.

Dead Horse Pass Formation—Sanderson, 1984.

Deadmans Gulch Formation—Bush and Bush, 1974.

Measured section—Bush and Bush, 1974.

Deadwood Formation—Gerhard and Anderson, 1979; Kirchner, 1991.

Deadwood Gulch Thrust—McDowell, 1998.

Debolt Formation—Johnson, 1995.

Decollement—Harris, 1971; Kittleson, 1992.

Defiance Uplift—Ochs and Chan, 1990; Stanesco, 1991; Masters, 2000.

Deformation—Riecker, 1966.

DeGrey Member—see Pierre Shale.

Delcarbon Syncline—Lewis and others, 1969.

Density log—Johnson, 1995; Levey, 1992.

Denver aquifer—Crifasi, 1992.

Denver Formation—Crifasi, 1992; DeVoto, 1964; Ettinger, 1964; Grose, 1972; Lozano, 1967; Novotny and Sanford, 2004; Sawatzky, 1964, 1972; Weimer, 1973; Yacoub, 1965.

Deseret Formation—Hite, 1978.

Desert Creek Formation—Hite, 1972.

Detachment folding—Royse, 1996.

Dewey Bridge Member—Robertson and O’Sullivan, 2001.

Diagenesis—Berry, 1967; Bitter, 1986; Breyer, 1983; Byrnes, 1997; Coalson and Inden, 1990; Coughlan and Steidtmann, 1984; Hansley and Brown, 1993; Hansley and Johnson, 1980; Hubert and Panish, 2000; Keighin and others, 1993; Kiteley, 1976; Larsen and others, 2000; Matheny and Picard, 1985; Mitchell and Rogers, 1993; Moore, 1975; Ochs and Chan, 1990; Pickering and Indelicato, 1985; Ramirez L., 1974; Reinert and Davies, 1976; Rogers and others, 1995; Salotti and Fouts, 1964; Schmoker and Schenk, 1988; Segal and others, 1986; Smith and Dorobek, 1989; Winn and others, 1983.

Diamond Mountains—Camilleri, 2000.

Diamond Peak Formation—Jansma and Mattioli, 1994; Pekarek, 1988.

Diapirism—Mallory, 1966b; Pickering and Indelicato, 1985; Witkind, 1992; Witkind and Page, 1984.

Diatreme—Collins and Collins, 1984.

Dickinson Field—Gerhard and Anderson, 1979; Johnson, 1995; Longman, 1996.

Dietz coalbed—see Fort Union Formation—Tongue River Member.

Diffusion—Shaw, 1977.

Dikes—King and others, 2009; Nelson, 1971.

Dilco Coal Member—see Crevasse Canyon Formation.

Dineh-bi-Keyah Field—Masters, 2000.

Dinosaur National Monument—Fryberger, 1979.

Dinosaur Ridge—Pritchett, 1994; Hubert and Panish, 2000; Lockley and others, 2001.

Dinwoody Formation—Blackstone, 1989; Coalson and Inden, 1990; Paull and Paull, 1998; Paylor and others, 1989; Sheldon, 1967.

Dipmeter—Ahlbrandt and Fox, 1997.

Disposal wells— Bardwell, 1966; Colorado Department of Health, 1971; Evans, 1966; Scopel, 1964.

Discovery series—Hull, 1999; Masters, 2000; Robinson, 2000. Dissertations—see theses and dissertations on geology.

Ditch Canyon Member—see San Jose Formation.

Dollard Field—Nolte, 1967.

Dolores Formation—Dolson and others, 1993; Dubiel and others, 1989; Hansley and Brown, 1993; Mitchell and Rogers, 1993; Weimer, 1982.

Dona Ana Caldera—Gornitz, 1982.

Dotsero Formation—Bartos, 2009; Tyler and Campbell, 1975.

Doughnut Formation—Swetland and others, 1978.

Douglas Creek Member—see Wasatch Formation, Green River Formation.

Drainage—Doeringsfeld and Ivey, 1964; McCallum, 1968; Pearl, 1971.

Drilling mud—Levey, 1992.

Drill-stem test—Levey, 1992; Nelson, 2002a.

Drip Tank Member—see Straight Cliffs Sandstone.

Drunkard's Wash Unit—Lamarre and Pratt, 2002.

Dry Canyon Anticline—Ryer, 1976.

Dry Fork Ridge Anticline—Hennings and Spang, 1987.

Dry Hollow Member—see Frontier Formation

Dry Mountain Anticline—Hansen, 1984.

Dry Union Formation—Reinking and Hoeksema, 1980.

Dubois Field—Stone, 1972.

Dunes—see sand dunes

Dunkleberg Formation—Tysdal and others, 1989.

Duperow Formation—Gerhard and Anderson, 1979; Johnson, 1995, 2001.

Duquesne River Formation—Hansen, 1984.

Dutch John Fault—Hansen, 1984.

Dutton Anticline—Stone, 1966, 2005a.

Dyer Dolomite (Formation)—Baars and Campbell, 1968; Bridges and McCarthy, 1990; Pampe, 1973.
see also Chaffee Group

Eads Axis—Clair and Volk, 1968.

Eagle Evaporite—Nuccio and others, 1989.

Eagle Sandstone—Gerhard and Anderson, 1979; Hares, 1988; Kirschbaum, 1986; Stone, 1983.

Eagle Springs Field—Flanigan, 1988; Mansholt, 1983; Osmond, 1966; Veal and others, 1988.

Eagle Valley Evaporite—Mallory, 1966b; Newton, 1964.

Earthquake—Butler, 1983; Matthews, 1973; McGuire and others, 1982; Riecker, 1966; Wong, 1991; Wong and Humphrey, 1986.

East Anschutz Ranch Field—Dow, 1988.

East Gunnison Monocline—Witkind, 1992.

East Kaibab Monocline—Cepeda, 1994.

East Kootenay orogeny—Woodward and Bell, 1995.
Absolute age—Woodward and Bell, 1995.

East Reno Field—Amsbury, 1967.

Echo Canyon Conglomerate—Hurst and Steidtmann, 1986; Salat and Steidtmann, 1991.

Echo Park Alluvium—Dickinson, 1981.

Echo Park Graben—Dickinson, 1981.

Economic evaluation—Chancellor, 1967; Curtis, 1997; Halbouty, 1966.

Economic geology—Jurie and Gerhard, 1969; Murray and others, 1968.

Education—Kent, 1973.

El Cajon Member—see San Lucas Formation.

El Rito Formation—Siems, 1964.

El Vado Sandstone—Longman and others, 1998.

Elasmobranchs—Cicimurri, 2000.

Elbert Formation—Baars and Campbell, 1968; Weimer, 1982.
McCracken Sandstone Member—Segal and others, 1986.

Eldorado Springs Member—see Dakota Group.

Elemental analysis—Bailey, 1972; Marsh and Smith, 1997; Nelson, 1972.

Elephant Canyon Formation—Baars, 1991; Loope and Verville, 1990; Sanderson and Verville, 1990.
Measured section—Loope and Verville, 1990.

Elk Basin Anticline/Field—Hares, 1988.

Elk Butte Member—see Pierre Shale.

Elk Creek Pipe—Kirchner, 1991.

Elk Mountain Field—Stone, 1984b.

Elk Mountains Thrust Fault—Wong, 1991.

Elkhorn Thrust—Clement and Dolton, 1970; Ettinger, 1964; Sawatzky, 1964, 1972; Trimble, 1964; Yacoub, 1965.

Ellenburger Limestone—Johnson, 1995.

Ellis Group
Rierdon Formation—Dolson and others, 1993; Malone and Suttner, 1992.
Sawtooth Formation—Dolson and others, 1993; Hite, 1978; Malone and Suttner, 1992.

Swift Formation—Dolson and others, 1993; Malone and Suttner, 1992.

Ely Limestone—Flanigan, 1988.

Ely Springs Dolomite—Camilleri, 1992.

Embar Formation—Hares, 1988.

Emery Sandstone Member—see Mancos Shale.

Emery Uplift—Mitchell, 1985.

Emigrant Trail Thrust—Gries, 1981.

Enargite—Taylor and Bornhorst, 1998.

Engineering geology—Leroy, 1966; Matthews, 1973; Mohorich, 1971; Murray and others, 1968; Newton, 1964.

Englewood Formation—Hayes, 1985; Merin and Lindholm, 1986.

Entrada Formation (Sandstone)—Chenoweth, 1978; Gries, 1985; Lucas and others, 2001; Nuccio and others, 1989; Robertson and O’Sullivan, 2001; Smith, 1983; Stone, 1994; Tanner, 1968, 1970; 1996; Weimer, 1982.

Environmental geology—Snow, 1973.

Eocene erosion surface—Brister and Chapin, 1994.

Ephraim Conglomerate—Hurst and Steidtmann, 1986.

Ericson Sandstone—Hansen, 1984; Kirschbaum, 1986; Pedersen and Steel, 1999.

Erosion surface—Brister and Chapin, 1994; Campbell, 1966; Chapin and Epis, 1964; Collins and Collins, 1984; Evans, 2002; Graham and Ethridge, 1995; Hansen, 1984; Knepper, 2005; Leonard and Langford, 1994; Martin and others, 1992; McCallum, 1968; Pearl, 1968; Rogers and others, 1995; Slatt and others, 1995.

Ervay Member—see Park City Formation.

Escalante Desert Formation—Nusbaum and Grant, 1987.

Escarpment Fault—Mattox and Weiss, 1987.

Espil Member—see Sinagua Formation.

Espinaso Formation—Siems, 1964.

Eureka Quartzite—Camilleri, 1992.

Evacuation Creek Member—see Green River Formation

Evanston Formation—Hurst and Steidtmann, 1986; Nichols and Jacobson, 1982; Salat and Steidtmann, 1991.

Hams Fork Conglomerate Member—Hurst and Steidtmann, 1986; Salat and Steidtmann, 1991

Measured section—Salat and Steidtmann, 1991.

Evaporites—Coalson and Inden, 1990; Hite, 1972, 1978; Hite and others, 1972; Kirkham and others, 2001; Mallory, 1966b; Morris, 1975; Newton, 1964; Pritchett, 1994; Rascoe, 1968; Raup, 1972; Shaw, 1977; Smith and Dorobek, 1989; Sorauf and Billingsley, 1991; Stapor, 1972; Tanner, 1972; Witkind, 1992; Witkind and Page, 1984.

Exshaw Formation—Dolson and others, 1993; Hayes, 1985.
Fairbank Sandstone—Ahlbrandt and Groen, 1987.
Fairport Chalky Shale Member—see Carlile Shale.
Falcon Field—Chancellor, 1964.
Fales Member—see Mesaverde Formation.
Fall River Sandstone (Formation)—Mitchell, 1976; Mitchell and Rogers, 1993.
 see also Inya Karan Group.
False Bakken—Johnson, 1995.
Faulting—Al-Raisi and others, 1996; Sawatzky, 1972; Shawe and others, 2008; Stone, 1969, 2006a; Weber, 1971; Weimer, 1973.
Fayette Fault—Mattox and Weiss, 1987.
Fernie Group—Hite, 1978.
Ferris Formation—Bergh and Snoke, 1992.
Ferron Coal—Lamarre, 2006; Lamarre and Pratt, 2002.
Ferron Sandstone Member—see Mancos Shale.
Field trip guide—MacKenzie, 1968.
Fischer assay—Keighin, 1980.
Fission-track—Chen and Lubin, 1997.
Fivemile Fault—Stone, 2004b.
Flagstaff Limestone—Mattox and Weiss, 1987; Witkind, 1992; Witkind and Page, 1984.
Flagstaff Member—see Green River Formation.
Flat Top Anticline—Blackstone, 1994; Mitchell and Rogers, 1993.
Flat Top Field—Doeringsfeld and Ivey, 1964.
Flat Top Thrust—Blackstone, 1994.
Flathead Fault—Constenius, 1988.
Flathead Quartzite (Sandstone)—Bergh and Snoke, 1992; Blundell and Marrs, 1991; Graham and Suttner, 1974; Hansen, 1985; Martin and others, 1992; Reeves, 1964; Thomas and others, 1996; Woodward and Bell, 1995.
 Measured section—Beebee and Cox, 1998.
Flechado Formation—Baars and Stevenson, 1984.
Flood Member—see Blackleaf Formation.
Florence Field—Slatt and others, 1995.
Florissant Lake beds—Calkin and others, 1972; Dickinson, 1981; Trimble, 1980.
Flossie Lake subinterval—see Bottineau Interval.
Fluid inclusions—Taylor and Bornhorst, 1998.
Fluid-rock interaction—Jansma and Mattioli, 1994.
Folding—D’Lugosz and Cebull, 1972; Royse, 1996.
Ford Ridge Member—see North Horn Formation.

Formation damage—see Hoffman, 2008a.

Formation pressure measurement—Levey, 1992.

Fort Collins Field—MacKenzie, 1971.

Fort Collins Member—see Muddy Sandstone.

Fort Defiance Member—see De Chelly Sandstone.

Fort Hays Limestone Member—see Niobrara Formation.

Fort Payne Formation—Johnson, 1995.

Fort Union Formation—Childers, 1974; Collins, 1971; Gerhard, 1967; Hansen, 1984, 1985; Hares, 1988; Hogle and Jones, 1991; Kirschbaum and others, 1994; Kraus and Wells, 1999; Krummel, 1973; Langen and Kidwell, 1974; Law and others, 1980; Mitchell and Rogers, 1993; Natali and others, 2000; Oldham, 1997; Stone, 1983; Stucky and Krishtalka, 1991; Tyler and others, 1997; Warner, 2000; Weber, 1971.

Lebo Member—Hansley and Brown, 1993; Robinson and Barnum, 1986; Sholes and Cole, 1981.

Lower Member—Flemings and Nelson, 1991; Gillespie and Fox, 1991; Hogle and Jones, 1991; Robertson, 1984.

Shotgun Member—Flemings and Nelson, 1991; Gillespie and Fox, 1991; Hogle and Jones, 1991; Robertson, 1984.

Tongue River Member—Hansley and Brown, 1993; Merin and Lindholm, 1986; Robinson and Barnum, 1986; Sholes and Cole, 1981.

Tulloch Member—Hansley and Brown, 1993; Sholes and Cole, 1981.

Waltman Shale Member—Flemings and Nelson, 1991; Gillespie and Fox, 1991; Hogle and Jones, 1991; Newman, 1965a; Robertson, 1984.

Fossil Butte Member—see Green River Formation.

Fossil Lake—Hansen, 1985; Leggitt and Loewen, 2007.

Fossil Mountain Member—see Kaibab Formation.

Fossils—see Paleontology.

Fosterton Main Unit Field—Nolte, 1967.

Fountain Creek Flexure—Blanton, 1975.

Fountain Formation—Blood, 1970; Ellis, 1966; Gerhard, 1968; Gerhard and Wahlstedt, 1965; Grose, 1972; Howard, 1966; LeRoy and Grose, 1967; Scopel, 1964; Sonnenberg, 1984; Weimer, 1973; Weimer and Land, 1972b.

Fowkes Formation—Hurst and Steidtmann, 1986; Salat and Steidtmann, 1991.

Fox Hills Sandstone (Formation)—Ahlbrandt and Groen, 1987; Childers, 1974; Crifasi, 1992; Ettinger, 1964; Grose, 1972; Hayes, 1967; Kauffman and others, 1977; Kiteley, 1976; Kittleson, 1992, 2004; Kluth and Nelson, 1988; Netoff, 1971; Nwangwu, 1977; Weimer, 1973.

Measured section—Covington, 1966; Weimer, 1973.

Core description—Weimer, 1973.

Fractures—Bardwell, 1966; Clarey and others, 1998; Davis, 2005; Doeringsfeld and Ivey, 1964; Evans, 1966; Harper, 1966; Laubach and others, 1993; Mitchell and Rogers, 1993; Scopel, 1964; Sonnenberg and Weimer, 1993; Snow, 1970, 1973; Woodward, 1997.

Frannie Field—Hares, 1988.

Franson Limestone Member—see Park City Formation.

Freezeout Hills Anticline—Blackstone, 1994.

Fremont Limestone—Anderson, 1970; Gerhard, 1968; Gerhard and Wahlstedt, 1965.

Fremont Surface—Martin and others, 1992.

Frog Creek Field—Mitchell and Rogers, 1993.

Front Range—Corbett, 1966; Erslev and Larson, 2006; Mallory, 1966a; Matthews, 2007; Nesse, 2006.

Frontier Formation—Bitter, 1986; Blackstone, 1989; Dow, 1988; Dyman and Tysdal, 1998; Dyman and others, 1988; Hamlin, 1996; Hares, 1988; Kirschbaum and others, 2009; Lang and others, 1991; Lauman, 1966; Natali and others, 2000; Nichols and Jacobson, 1982; Ritzma and Kaliser, 1977; Stone, 1983; Tyler and others, 1997; Tysdal and others, 1989; Winn and others, 1983.

Absolute age—M'Gonigle and others, 1995.

Allen Hollow Shale Member—M'Gonigle, 1982; M'Gonigle and others, 1995; Ryer, 1977; Schmitt, 1985.

Belle Fourche Member—Cicimurri, 2001; Macdonald and Byers, 1988; Merewether, 1983; Merewether and others, 1979; Mitchell and Rogers, 1993.

Chalk Creek Member—Merewether, 1983; M'Gonigle, 1982; M'Gonigle and others, 1995; Ryer, 1977; Schmitt, 1985.

Coalville Member—M'Gonigle, 1982; M'Gonigle and others, 1995; Ryer, 1977; Schmitt, 1985.

Core description—Hamlin, 1996.

Dry Hollow Member—Merewether, 1983; M'Gonigle, 1982; M'Gonigle and others, 1995; Ryer, 1977; Schmitt, 1985.

Grass Creek Member—Ryer, 1977; Schmitt, 1985.

Judd Shale Member—Ryer, 1977; Schmitt, 1985.

Longwall Sandstone Member—Ryer, 1977; Schmitt, 1985.

Measured section—Dyman and Tysdal, 1998; M'Gonigle and others, 1995.

Oyster Ridge Sandstone Member—Merewether, 1983; M'Gonigle, 1982; M'Gonigle and others, 1995; Ryer, 1977; Schmitt, 1985.

Peay Sandstone Member—Hares, 1988; Paylor and others, 1989.

Spring Canyon Member—Ryer, 1977; Schmitt, 1985.

Torchlight Sandstone Member—Hares, 1988.

Unnamed Member—Merewether and others, 1979.

Upton Sandstone Member—Ryer, 1977; Schmitt, 1985.

Wall Creek (Sandstone) Member—Blackstone, 1994; Merewether, 1983; Merewether and others, 1979; Stone, 2006a.

Fruitland Formation—Brister and Chapin, 1994; Flores and Erpenbeck, 1981; Gries, 1985; Manfrino, 1984.

Measured section—Manfrino, 1984.

Furnace Creek Formation—Ross and McAllister, 1981.

Galeana Red Bed Member—see Balsas Group.

Galisteo Formation—Siems, 1964.

Gallagher Peak Sandstone Member—see Snaky Canyon Formation.

Gallatin Limestone—Blackstone, 1989; Hurst and Steidtmann, 1986; Merin and Lindholm, 1986.

Gallup Formation—see Mesaverde Group.

Gamma Member—see Kaibab Formation.

Gamma-ray log—Johnson, 1995; Levey, 1992; Rogers and others, 1995; Slatt and others, 1995; Sonnenberg and Weimer, 1993.

Gammon Ferruginous Member—see Pierre Shale.

Garden Gulch Member—see Wasatch Formation.

Garden Park Thrust—Gerhard, 1968; Gerhard and Wahlstedt, 1965.

Garland Anticline/Field—Hares, 1988.

Garlock Fault—Stone, 1970.

Garnet—Bailey, 1972; Basu and others, 1998.

Garro Sandstone (Formation)—Ettinger, 1964; DeVoto, 1965.

Garrel Peak Stock—Noblett, 1987.

Gartra Member—see Chinle Formation.

Gas Draw Field—Lin, 1981; Stone, 1972.

Gas Hills Uranium District—Rackley, 1972.

Gas production—see petroleum production.

Gas resources—Byrnes, 1997; Curtis, 1997.

Gas seep fauna—Longman, 1996.

Gavilan Mancos Field—Emmendorfer, 1989.

Gebo Dome—Coalson and Inden, 1990; Grannell and Showalter, 1991; Hares, 1988.

Gem Park Complex—Armbrustmacher and others, 1979.

Geochemistry—Bailey, 1972; Berry, 1967; Gresens, 1971; Gulbrandsen, 1971; Harshman, 1972a, 1972b; Hite, 1972; Jarvie, 2001; Landon and others, 2001; Langen and Kidwell, 1974; Nelson, 1971, 1972; Rackley, 1972; Raup, 1972; Sheldon, 1967; Zarrela, 1966.

Geochronology—Catanzaro, 1967.

Geomorphology—De Voto, 1972; Doeringsfeld and Ivey, 1964; Knepper, 2005; Murray, 1967; Netoff, 1971; Pearl, 1968; Yeend, 1973.

Geothermal energy/water—Alther, 1977; Bridges and McCarthy, 1990; Pritchett, 1994.

Geothermal gradient—Cronoble, 1969.

Gering Formation—Ahlbrandt and Groen, 1987.

Gilbert Peak Erosion Surface—Hansen, 1984.

Gillespie Anticline—Blackstone, 1994.

Gilman Member—see Leadville Limestone.

Gilman Mine—DeVoto and Maslyn, 1977.

Glaciers/Glaciation—Hansen, 1985; Harrington, 1985; Huber and Grogger, 1985; Martin and others, 1992; McCallum, 1968; Nettleton and Chadwick, 1991; Pearl, 1968.

Glance Conglomerate—see Bisbee Group.

Glauconite marker bed—Stone, 1983.

Glen Bench Field—Longman and others, 2003.

Glen Eyrie Formation—Grose, 1972.

Glencairn Formation—Odien, 1998.

Glencairn Shale Member—see Purgatoire Formation.

Glenwood Canyon Member—see Dotsero Formation.

Glick Field—Rogers and others, 1995.

Gneiss—Zartman and Reed, 1998.

Goat River Orogeny—Woodward and Bell, 1995.

Absolute age—Woodward and Bell, 1995.

Gold—Jurie and Gerhard, 1969; Woodward, 1993.

Golden Eagle Dome—Hares, 1988.

Golden Spike Field—Ramirez L., 1974.

Goldens Ranch Formation—Witkind, 1992.

Goldie Carbonatite—Heinrich, 1977.

Goose Egg Formation—Ahlbrandt and Groen, 1987; Amsbury, 1967; Blackstone, 1984, 1994; Schmoker and Schenk, 1988; Sheldon, 1967.

Minnekahta Limestone Member—Schenk and others, 1993.

Opeche Shale Member—Schenk and others, 1993.

Gooseberry Gulch Series—Cooperrider and Heinrich, 1978.

Gooseberry Gulch Syncline—Reuss, 1974.

Goshen Hole Uplift—Ahlbrandt and Groen, 1987.

Gottsche Tongue—see Rock Springs Formation.

Government Draw bentonite beds—Collins, 1987; Nichols and others, 1987.

Grain packing—Hoholick and others, 1982; Moore, 1975; Pickering and Indelicato, 1985.

Grain size analysis—Ahlbrandt, 1975; Carr, 1985; Flores and Erpenbeck, 1981; Fryberger, 1979; Gopinath, 1978; Hansley and Brown, 1993; Hansley and Johnson, 1980; Harrington, 1985; Keighin and others, 1993; Lin, 1981; Mack, 1977; Martin and others, 1992; Merin and Lindholm, 1986; Reheis, 1980; Rogers, 1975; Sanderson and Wiley, 1986; Tubbs, 1989; Winn and others, 1983.

Grand Hogback—Madden, 1985; Nuccio and others, 1989.

Grand Mesa Coal Field—Lockley and others, 1983.

Grandeur Member—see Park City Formation.

Graneros Shale—Ahlbrandt and Groen, 1987; Kauffman, 1969; Kauffman and others, 1969; Hattin, 1977; Sonnenberg, 1982; Woodward, 1997.

Lower shale member—Kauffman and others, 1977.

Thatcher Limestone Member—Kauffman and others, 1977.

Upper shale member—Eicher, 1977; Kauffman, 1977b; Kauffman and others, 1977.

see also Benton Group.

Granite wash—Rogers, 1975.

Grant Canyon Field—Flanigan, 1988; Pekarek, 1988; Veal and others, 1988.

Grants Mineral Belt—Brookins, 1982.

Grants Ridge Rhyolite—Gornitz, 1982.

Grass Creek Anticline/Field—Grannell and Showalter, 1991; Hares, 1988.

Grass Creek Member—see Frontier Formation.

Grass Peak Thrust—Mansholt, 1983.

Gravel mounds—Murray, 1967.

Gravitational tectonics—D'Lugosz and Cebull, 1972; Gerhard and Wahlstedt, 1965; Harris, 1971; Karig, 1964; Weber, 1971; Yeend, 1973.

Gravity survey—Brister and Chapin, 1994; Constenius, 1988; Eggler, 1967; Grannell and Showalter, 1991.

Grayling Syncline—McDowell, 1998.

Great Falls Tectonic Zone—Woodward, 1993.

Great Sands Dunes National Monument—Ahlbrandt and others, 1994.

Greeley Arch—Sonnenberg, 1984.

Greeley-Wattenberg Lineament—Davis, 1985.

Green Mountain Diatreme—Larson and Amini, 1981.

Green River Formation—Bohacs and others, 2007; Bohacs and others, 2007; Chatfield, 1965; Culbertson, 1964, 1972; Donnell, 1965; Dyni, 1969; Dyni and Goodwin, 1972; Hansen, 1985; Juhan, 1965; Keighin, 1980; Leggitt and Loewen, 2007; Mattox and Weiss, 1987; Morgan and Bereskin, 2003; Osmond, 2000; Pitman and others, 1972; Rhodes and others, 2007; Ritzma, 1965; Sanborn and Goodwin, 1965; Smuin, 1990; Snow, 1970; Witkind, 1992.

- Angelo Member*—Hurst and Steidtmann, 1986.
- Anvil Points Member*—Ritzma, 1965; Smuin, 1990.
- Douglas Creek Member*—Ritzma, 1965.
- Evacuation Creek Member*—Chatfield, 1965; Juhan, 1965.
- Flagstaff Member*—Hansen, 1985; Olsen, 1995.
- Fossil Butte Member*—Hansen, 1985; Hurst and Steidtmann, 1986.
- Garden Gulch Member*—Ritzma, 1965.
- Glen Bench Sandstone*—Longman and others, 2003.
- Laney Shale Member*—Hansen, 1984; Steidtmann and Middleton, 1986.
- Measured section*—Donnell, 1965; Sanborn and Goodwin, 1965.
- Parachute Creek Member*—Ritzma, 1965; Sanborn and Goodwin, 1965; Smuin, 1990.
- Piceance Creek Sandstone*—Ritzma, 1965.
- Tipton Tongue*—Hansen, 1984; Steidtmann and Middleton, 1986.
- Wilkins Peak Member*—Leggitt and others, 2007; Steidtmann and Middleton, 1986.
- Greenhorn Cyclothem—Kauffman, 1977b; Kauffman and others, 1977.
- Greenhorn Limestone/Formation—Ahlbrandt and Groen, 1987; Kauffman, 1969; Kauffman and others, 1969; Mitchell and Rogers, 1993; Sonnenberg, 1982; Woodward, 1997.
- Bridge Creek Limestone Member*—Eicher, 1977; Kauffman, 1977b; Kauffman and others, 1977; Macdonald and Byers, 1988.
- Hartland Shale Member*—Eicher, 1977; Hattin, 1977; Kauffman, 1977b; Kauffman and others, 1977; Macdonald and Byers, 1988.
- Jetmore Member*—Hattin, 1977.
- Lincoln Member*—Eicher, 1977; Hattin, 1977; Kauffman, 1977b; Kauffman and others, 1977; Macdonald and Byers, 1988.
- Measured section*—Hattin, 1977.
- Pfeifer Member*—Hattin, 1977.
- Grenadier Horst—Baars and Stevenson, 1984; Maslyn, 1977; Weimer, 1982.
- Greybull Arch—Coalson and Inden, 1990.
- Greybull Sandstone—Hares, 1988.
- Greyson Shale—see Belt Supergroup.
- Grieve Field—Mitchell, 1976.
- Gros Ventre Formation—Martin and others, 1992.
- Gros Ventre Uplift—Hansen, 1985.
- Ground water—Barkmann, 2004; Clarey and others, 1998; Graham and VanSlyke, 2004; Jehn-Dellaport, 2004; Kittleson, 2004; Novotny and Sanford, 2004; Pritchett, 1994; Reynolds, 2004; Topper, 2004.

Grover uranium deposit—Reade, 1976.

Growth fault—Kittleson, 1992.

Guernsey Limestone—Bridges and McCarthy, 1990.

Guerrero Terrane—Jansma and others, 1991; Johnson and others, 1991.

Guilmette Formation—Camilleri, 1992; Flanigan, 1988; Gilmore, 1990; Veal and others, 1988.

Gunnison Uplift—Bartleson and Jensen, 1988; Brister and Chapin, 1994; Gries, 1985.

Gypsum Springs Formation—Clarey, 1990; High and Picard, 1967; Paylor and others, 1989; Schmude, 2000.

Gypsum—Royse, 1996; Stapor, 1972; Tanner, 1972.

HA Creek Field—Mitchell and Rogers, 1993.

Haas Sandstone Unit—see Williams Fork Formation.

Hades Pass Formation—see Uinta Mountain Group.

Halgaito Member—see Cutler Formation.

Halverson Field—Moore, 1983.

Hambert Field—Davis, 1985.

Hamilton Dome Field—Coalson and Inden, 1990; Grannell and Showalter, 1991; Hares, 1988; Paylor and others, 1989.

Hams Fork Conglomerate Member—see Evanston Formation.

Hanna Formation—Bergh and Snoke, 1992; Blackstone, 1984; McCallum, 1968.

Hansen Orebody—Dickinson, 1981.

Harding (Quartzite) Formation—Allison, 1966; Anderson, 1970; Chenoweth, 1978; Fischer, 1978; Gerhard, 1968; Gerhard and Wahlstedt, 1965.

Hardpan Fault—Clarey, 1990.

Hardscrabble Limestone—Bridges and McCarthy, 1990; Foster and others, 1968; Ramirez L., 1974.

Measured section—Foster and others, 1968; Ramirez L., 1974.

Haringvliet Estuary—Mitchell, 1976.

Harris Ridge Anticline—Blundell and Marrs, 1991.

Harrisburg Dome—Sorauf and Billingsley, 1991.

Harrisburg Member—see Kaibab Formation.

Harrison Formation—Ramirez L., 1974.

Hartland Shale Member—see Greenhorn Limestone/Formation.

Hartsel Anticline—Clement and Dolton, 1970.

Hartsel Formation—Lozano, 1967.

Hartville Formation—Ahlbrandt and Groen, 1987; Ahlbrandt and others, 1994; Bridges and McCarthy, 1990.

Hartville Uplift—Ahlbrandt and others, 1994; Bridges and McCarthy, 1990; Hansley and Brown, 1993; Mitchell and Rogers, 1993; Moore, 1975.

Hartzog Draw Field—Seeling, 1978.

Hastings Field—Doeringsfeld and Ivey, 1964.

Hawk Springs Field—Ahlbrandt and Groen, 1987.

Haybarn Field—Robertson, 1984.

Heart Mountain—Rhodes and others, 2007.

Heath Formation—Swetland and others, 1978.

Heavy minerals—Conley, 1964; Hansley and Brown, 1993; Van West, 1965.

Heldt Draw Field—Seeling, 1978.

Helena Canyon Fault Zone—Gerhard, 1968.

Helena Formation—see Belt Supergroup.

Hell Canyon District—Woodward and others, 1978.

Hell Creek Formation—Hansley and Brown, 1993.

Henderson Creek District—Woodward, 1993.

Henefer Formation—Ryer, 1977.

Henry's Fork Fault—Hansen, 1984.

Hermosa Group (Formation)—Evans, 2002; Hite, 1972; Raup, 1972; Weimer, 1982; Masters, 2000.

Honaker Trail Formation—Loope and Verville, 1990; Mack and Miller, 1980; Morris, 1975.

Paradox Formation—Baars and Stevenson, 1984; Mack and Miller, 1980; Morris, 1975.

Pinkerton Formation—Baars and Stevenson, 1984; Mack and Miller, 1980; Morris, 1975.

San Luis Facies—Baars and Stevenson, 1984.

Hidden Dome Field—Hares, 1988.

High Creek Syncline—Lozano, 1967.

High Line Field—Silverman, 1988.

Higham Grit—Schmitt and Hazen, 1987.

Highland Fault—Blundell and Marrs, 1991.

Highland Syncline—Blundell and Marrs, 1991.

Hilight Muddy Field—Berg, 1976; Mitchell and Rogers, 1993.

Hill Creek Fault—Bergh and Snoke, 1992.

Hilliard Formation (Shale)—Hamlin, 1996; Merewether, 1983; M'Gonigle and others, 1995; Nichols and Jacobson, 1982; Ryer, 1977; Weber, 1971.

Hinsdale Formation—Gornitz, 1982.

History of RMAG—Kellogg, 1997.

Hogback Monocline—Brister and Chapin, 1994.
Hogback Thrust—M'Gonigle and others, 1995.
Holder Formation—Carr, 1985.
Honaker Trail Formation—see Hermosa Group.
Hope Creek Caldera—Gries, 1985.
Horizontal drilling/wells—Schmoker, 1996; Sonnenberg and Weimer, 1993.
Horn Lineament—Ahlbrandt and Groen, 1987.
Horse Canyon Field—Louden and others, 2000.
Horse Creek Field—MacKenzie, 1971.
Horse Springs Formation—Mansholt, 1983.
Horseshoe Field—Penttila, 1964.
Horseshoe Gallup Sandstone—Penttila, 1964.
Horsethief Formation—Bibler and Schmitt, 1986.
Horsetooth Member—see Muddy Sandstone.
Hoskinnini Member—see Moenkopi Formation.
Huerfano Formation—Siems, 1964.
Huerfano Park—Malan, 1969.
Hulett Sandstone Member—see Sundance Formation.
Humbug Formation—Hite, 1978; Mayer, 1964.
Hunter Canyon Formation—see Mesaverde Group.
Hunter Creek Syncline—Dyini, 1969.
Hunter's Point Member—see De Chelly Sandstone.
Huntsman Shale—see Dakota Group.
Hyattville Thrust-Fold—Stone, 1987.
Hydrocarbon maturation—Barlow, 1986; Hayes, 1985; Law and others, 1980;
 McDowell, 1988; Nuccio and others, 1989; Pickering and Indelicato, 1985;
 Robertson, 1984; Silverman, 1988.
Hydrocarbon potential—Pekarek, 2005.
Hydrodynamics—Clair and Volk, 1968; Dow, 1988; Huntoon, 1996; Moore, 1984;
 Stone, 1972.
Hydrogen sulfide—Vredenburgh and Cheney, 1970.
Hydrology—Campbell, 1966; Colorado Oil and Gas Conservation Commission, 1971;
 Mohorich, 1971; Pearl, 1971; Snow, 1973; West, 1965.
 Ground water—Alther, 1977; Barkmann, 2004; Clarey and others, 1998; Crifasi,
 1992; Graham and VanSlyke, 2004; Huntoon, 1996; Jehn-Dellaport, 2004;
 Kittleson, 1992, 2004; Lin, 1981; Novotny and Sanford, 2004; Reynolds, 2004;
 Smuin, 1990; Topper, 2004; Tyler and others, 1997.
 Surface water—Alther, 1977; Clarey and others, 1998; Smuin, 1990.

Hydrothermal alteration—Lester, 1993.

Hygiene Sandstone Member—see Pierre Shale.

Idaho Batholith—Dyman and others, 1988; Kauffman, 1977b; Malone and Suttner, 1992; Tucker and Birdseye, 1989; Woodward, 1993.

Idaho Springs Formation—Downs and Bird, 1965; Grose, 1972; Murray, 1975; Reuss, 1974.

Idaho Springs-Ralston shear zone—Caine and others, 2006; Silverman, 1988.

Igneous rocks—Beck, 1969; Catanzaro, 1967; Chapin and Epis, 1964; Chronic, 1964; Dallegge, 2008; Eggler, 1967; Ettinger, 1964; Fenton and Faure, 1970a, 1970b; 1971; Hagner, 1967; Ham, 1964; Harris and Wilbanks, 1966; Klugman, 1966, 1967; Reuss, 1974; Salotti and Fouts, 1964; Thompson and Pulfrey, 1973.

Iles Formation—see Mesaverde Group.

Ilse Fault—Noblett, 1987.

Immigrant Trail Thrust—Gudim, 1966.

Index (to *The Mountain Geologist*)—Dow, 1986; Mountain Geologist, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973a, 1973b, 1974, 1975a, 1975b, 1976, 1978a, 1978b, 1979, 1980, 1981, 1982, 1984, 1987; Schwochow, 1992, 1993, 1994, 1995, 1996.

Indian Creek Field—Johnson, 1995.

Indian Meadows Formation—Flemings and Nelson, 1991; Gillespie and Fox, 1991; Hogle and Jones, 1991; Martin and others, 1992; Stucky and Krishtalka, 1991.

Indian Peak Fluorspar District—Nusbaum and Grant, 1987.

Indian Well Tuff—Flanigan, 1988.

Indianola Group—Mattox and Weiss, 1987.

Sixmile Canyon Formation—Witkind, 1992; Witkind and Page, 1984.

Indicator plant—Collins and Collins, 1984.

Ingleside Formation—Rascoe, 1968; Sonnenberg, 1984.

Instow Field—Nolte, 1967.

Interlake Formation/Group—Gerhard and Anderson, 1979; Johnson, 1995; Johnson, 2001.

Intrusive—Corbett, 1966; Fenton and Faure, 1970a, 1970b; 1971; Klugman, 1966; Nelson, 1971; Pillmore, 1969; Thompson and Pulfrey, 1973.

Inyan Kara Group—Cardinal, 1970.

Fall River Sandstone—Gates and Rahn, 1986.

Lakota Formation—Gates and Rahn, 1986; Haverfield, 1970; Natali and others, 2000; Scopel, 1964; Stone, 1966.

Iron Dike—Braddock and Peterman, 1989.

Iron Mountain Complex—Heinrich, 1977.

Isham Canyon Pluton—Mueller and others, 1979.

Ismay algal mound—Louden and others, 2000.

Isotopes—Clarey and others, 1998; King and others, 2009; Lester, 1993; Vredenburg and Cheney, 1970.

Ivadell Field—Johnson, 1995.

Iyanbito Member—Robertson and O’Sullivan, 2001.

J-2 Unconformity—Robertson and O’Sullivan, 2001.

J Sandstone—see Dakota Group.

Jackfork Formation—Slatt and others, 1995.

Jafurah Sand Sea—Ahlbrandt and others, 1994.

Janssen Clay Member—see Dakota Formation.

Jefferson Anticline—Yacoub, 1965.

Jefferson Canyon Fault—Thomas and others, 1996.

Jefferson Formation (Dolomite)—Hares, 1988; Smith and Dorobek, 1989; Thomas and others, 1996.

Measured section—Smith and Dorobek, 1989.

Jemez Lineament—Gornitz, 1982.

Jerome Formation—Teichert, 1968.

Jesse Ewing Canyon Formation—see Uinta Mountain Group.

Jetmore Member—see Greenhorn Limestone/Formation.

Jewel Field—Gary and McGregor, 1968.

Joana Limestone—Camilleri, 1992; Gilmore, 1990; Pekarek, 1988.

Joints—Harper, 1966; Netoff, 1971; Trimble, 1964.

Jonah Field—DuBois and others, 2006; Robinson, 2000; Warner, 2000.

Jornado del Muerto Basalts—Gornitz, 1982.

Juana Lopez Member—see Carlile Shale, Mancos Formation.

Judd Shale Member—see Frontier Formation.

Judith Fancy Formation—Gerhard, 1978.

Judith River Formation—Hares, 1988; Stone, 1983.

Junction Creek Sandstone—Bartleson and Jensen, 1988; Gries, 1985.

Juniper Gulch Member—see Snaky Canyon Formation.

K/T boundary—Hansley and Brown, 1993.

Kaibab Formation—Matthews, 1989; Ochs and Chan, 1990.

Alpha Member—Mitchell, 1985.

Beta Member—Mitchell, 1985.

Fossil Mountain Member—Sorauf and Billingsley, 1991.

Gamma Member—Mitchell, 1985.

Harrisburg Member—Sorauf and Billingsley, 1991.

Measured section—Sorauf and Billingsley, 1991.

Kaiparowits Formation—Eaton, 1990.
Kanos Formation—McDowell, 1988.
Karst—Bridges and McCarthy, 1990; DeVoto and Maslyn, 1977; Maslyn, 1977.
 see also paleokarst.
Kaskapau Formation—Weimer, 1982.
Kate Spring Field—Flanigan, 1988.
Keetley Volcanics—Ritzma and Kaliser, 1977.
Keeton Porphyry—Murray, 1975.
Keg Coulee South Field—Carlson, 1967.
Kelvin Formation—Ritzma and Kaliser, 1977; Ryer, 1977.
Kenosha Pass Fault—Trimble, 1964.
Keokuk Limestone—Rogers and others, 1995.
Kerber Formation
 Measured section—DeVoto, 1965.
Keres Group—Gornitz, 1982.
Kerogen—Williamson, 1965.
Kevin-Sunburst Dome—Dolson and others, 1993.
Keyes Formation—Clair and Volk, 1968.
Keyes Limestone Member—see Morrow Formation.
Keystone Thrust—Axen, 1989; Matthews, 1988, 1989.
Kiawa Mountain Formation—Gresens and Stensrud, 1974; Wobus and Hedge, 1982.
Kiawa Syncline—Gresens and Stensrud, 1974.
Killpecker Dune Field—Ahlbrandt, 1975.
Kimberlite—Collins and Collins, 1984; Larson and Amini, 1981.
Kinderhook Shale—Rogers and others, 1995.
King Dome—Grannell and Showalter, 1991; Paylor and others, 1989.
Kingshill Limestone—Gerhard, 1978.
Kinsbury Member—see Wasatch Formation.
Kiowa Formation—Scott, 1977; Scott and Taylor, 1977.
 Measured section—Scott, 1977.
Kirtland Formation (Shale)—Brister and Chapin, 1994.
Kishenehn Formation—Constenius, 1988.
Kitty Field—Woncik, 1969.
Kleinholz Field—Sahl and others, 1993.
Kneeling Nun Formation—Gornitz, 1982.
Knight Formation—Ritzma and Kaliser, 1977.
Kobeh Member—see McColley Canyon Formation.

Kootenai Formation—Dolson and others, 1993; Dyman and others, 1988; Malone and Suttner, 1992.

Koppen paleoclimate classification—Egbert, 1990.

Kremmling Basin—Malan, 1969.

La Caja Formation—Hite, 1978.

La Jara Peak Formation—Gornitz, 1982.

La Luna Formation—Hite, 1978.

La Luz Anticline—Carr, 1985.

La Madre Fault—Matthews, 1989.

La Pasada Formation—Baars and Stevenson, 1984.

La Plata Dome—Brister and Chapin, 1994.

Laborcita Formation—Carr, 1985.

Lacustrine—Donnell, 1965; Newman, 1965a; Osmond, 2000; Tanner, 1968, 1970.

Ladder Creek Field—Ramirez L., 1974.

Laguna Basalt—Gornitz, 1982.

LaHood Formation—Graham and Suttner, 1974; Thomas and others, 1996.

Lak Member—see Sundance Formation.

Lake Basin Fault Zone—Robinson and Barnum, 1986.

Lake Creek Shale Member—see Pierre Shale.

Lake Flagstaff—Mattox and Weiss, 1987.

Lake Gosiute—Brand, 2007; Donnell, 1965; Hansen, 1984, 1985; Leggitt and others, 2007; Rhodes and others, 2007; Steidtmann and Middleton, 1986.

Lake Uinta—Donnell, 1965; Hansen, 1984, 1985; Mattox and Weiss, 1987; Osmond, 2000; Smuin, 1990; Snow, 1970.

Lake Valley Formation—Johnson, 1995.

Laketown Dolomite—Camilleri, 1992.

Lakota Formation—see Inya Karan Group.

Lance Creek Field—Ahlbrandt and Fox, 1997.

Lance Formation—Ahlbrandt and Groen, 1987; Childers, 1974; Flemings and Nelson, 1991; Gillespie and Fox, 1991; Hansley and Brown, 1993; Hares, 1988; Hogle and Jones, 1991; Law and others, 1980; Millison, 1965; Natali and others, 2000; Robinson, 2000; Robertson, 1984; Tyler and others, 1997; Warner, 2000.

Land use—Pritchett, 1994.

Lander Sandstone—Allison, 1966.

Landslide—LeRoy and Grose, 1967.

Laney Shale Member—see Green River Formation

Lansing-Kansas City Formation—Plant and others, 1971; Stoddard, 1968.

Lanyard Field—Sonnenberg, 1982.

Laramide orogeny—Ahlbrandt and Groen, 1987; Alther, 1977; Armstrong and Oriel, 1965; Bergh and Snoke, 1992; Blackstone, 1984; Blanton, 1975; Brister and Chapin, 1994; Cepeda, 1994; Chapin and Epis, 1964; Corbett, 1966; Crifasi, 1992; De Voto, 1972; Downs and Bird, 1965; Dyman and others, 1988; Erslev, 2007; Erslev and Larson, 2006; Flemings and Nelson, 1991; Gillespie and Fox, 1991; Gries, 1981, 1985; Hammuda, 1974; Hansen, 1984, 1985; Hansley and Brown, 1993; Harms, 1964; Harper, 1966; Hurst and Steidtmann, 1986; Jansma and others, 1991; Johnson and others, 1991; Kauffman, 1977b; Keefer, 1965; Kirschbaum and others, 1994; Kittleson, 1992; Kluth and Nelson, 1988; Leonard and Langford, 1994; Lindsey, 1998; Lozano, 1967; Manfrino, 1984; Matthews, 1986a, 1986b, 2007; Matthews and Sherman, 1976; Merin and Lindholm, 1986; Mitchell, 1985; Montgomery and Gray, 1989; Munger, 1965; Nuccio and others, 1989; Olsen, 1995; Paylor and others, 1989; Schavran, 1985; Sonnenberg, 1984; Spang and others, 1985; Stone, 1969, 1970, 1983, 1984b, 1987; Trimble, 1964, 1980; Wallace, 1988; Weber, 1971; Weimer, 1973, 1982; Wong and Humphrey, 1986; Woodward, 1986, 1997.

Laramie Formation—Childers, 1974; Crifasi, 1992; Covington, 1966; Grose, 1972; Hayes, 1967; Kittleson, 1992, 2004; Kluth and Nelson, 1988; Netoff, 1971; Trimble, 1980; Weimer, 1973.

Grover Sandstone—Reade, 1976.

Laramie River—Corbett, 1966.

Laramie Uplift—Hansley and Brown, 1993.

Laramie-Fox Hills Aquifer—Kittleson, 1992.

Larimer Sandstone Member—see Pierre Shale.

Las Animas Arch—Hattin, 1977; Lockley, 1987; Sonnenberg, 1985.

Las Mesas member—see Balsas Group.

Las Paredes Chert—Johnson and others, 1991.

Las Vegas shear zone—Axen, 1989; Matthews, 1988, 1989.

Latham Bar trend—Al-Raisi and others, 1996.

Latham Shale—Foster, 1994.

Latigo Field—Geyer, 1972.

Laurentia—Archuleta and others, 2006.

LaVeta Syncline—Lewis and others, 1969.

Lazear Syncline—M'Gonigle and others, 1995; Schmitt, 1985.

Leadville Limestone—Bridges and McCarthy, 1990; Chronic, 1964; Conley, 1965; Evans and Reed, 2006; Foster and others, 1968; Maslyn, 1977; Nuccio and others, 1989; Weimer, 1982.

Castle Butte Member—Bridges and McCarthy, 1990; DeVoto and Maslyn, 1977.

Gilman Member—Bridges and McCarthy, 1990; DeVoto and Maslyn, 1977; Foster and others, 1968.

Measured section—Foster and others, 1968.

Redcliff Member—Bridges and McCarthy, 1990; DeVoto and Maslyn, 1977.

Leadville mining district—Calkin and others, 1972.

Leatham Formation—Hayes, 1985.

Lebo (Shale) Member—see Fort Union Formation.

Leckie Beds—Martin and others, 1992; Steidtmann and Middleton, 1986.

Lehman Formation—McDowell, 1988.

Leigh Member—see Bighorn Dolomite.

Lenore Surface—Martin and others, 1992.

Leo Formation—Ahlbrandt and others, 1994.

Leonard Formation—Sorauf and Billingsley, 1991.

Leucite Hills—Ahlbrandt, 1975.

Lewis and Clark Fault System—Perry, 1986; Woodward and Bell, 1995.

Lewis Shale—Blackstone, 1984, 1986; Brister and Chapin, 1994; Dubiel, 2007; Gillespie and Fox, 1991; Gries, 1985; Hansen, 1984; Hogle and Jones, 1991; Krummel, 1973; Manfrino, 1984; McCubbin and Brady, 1969; Millison, 1965; Mulholland, 1994; Pasternack, 2005; Sinclair, 1964.

Dad Sandstone Member—Perman, 1987.

Lewis Thrust Fault—Butler, 1983; Constenius, 1988; Dolson and others, 1993; Yin, 1991.

Libby Creek Group—Sanderson and Wiley, 1986.

Lightning Creek Field—Ahlbrandt and Fox, 1997; Mitchell and Rogers, 1993.

Lignite—Gerhard, 1967.

Lily Park Syncline—Hansen, 1984.

Lincoln Member—see Greenhorn Limestone/Formation.

Lincoln Peak Formation—Pekarek, 1988.

Lineaments—Longman, 1996; Stone, 1966.

Lisbon Field—Segal and others, 1986.

Lisbon Valley Anticline—Segal and others, 1986.

Lisbon Valley Fault—Segal and others, 1986.

Little Belt Uplift—Woodward and Bell, 1995.

Little Buffalo Basin Field—Emmett and others, 1972; Hares, 1988.

Little Cottonwood Stock—Marsh and Smith, 1997.

Little Knife Field—Gerhard and Anderson, 1979.

Little Sand Draw Anticline—Grannell and Showalter, 1991.

Little Sheep Mudstone Member—see Cloverly Formation.

Llaves Member—see San Jose Formation.

Lodgepole Formation (Limestone)—see Madison Formation/Group.

Loess—Baker, 1973.

Log analysis—Ahlbrandt and others, 1994; Al-Raisi and others, 1996; Hester, 1999; Johnson, 1995; Keighin and others, 1993; Kittleson, 1992; Levey, 1992; Mulholland, 1994; Rogers and others, 1995; Slatt and others, 1995; Sonnenberg and Weimer, 1993.

Logan Gulch Member—see Three Forks Formation.

Lombard Fault—Thomas and others, 1996.

Lombard Limestone—McDowell, 1998.

London Fault—Chronic, 1964.

Lone Mountain Dolomite—Schalla and Benedetto, 1991.

Longwall Sandstone Member—see Frontier Formation.

Los Ochos Fault—Chenoweth, 1978.

Lost Cabin Member—see Wind River Formation.

Lost Soldier Field—Bailey, 1972.

Louviers Alluvium—Pearl, 1968.

Low-permeability reservoirs—Byrnes, 1997; Tyler and others, 1997; Woodward, 1997.

Lucerne Anticline—Grannell and Showalter, 1991.

Luman Tongue—see Green River Formation.

Lykins Formation—Blood, 1970; Gerhard, 1968; Grose, 1972; Rascoe, 1968; Sonnenberg, 1984; Weimer, 1973; Weimer and Land, 1972b.
Blaine Anhydrite—Sonnenberg, 1984.
Measured section—Blood, 1970.

Lyons Sandstone (Formation)—Adams and Patton, 1979; Blood, 1970; Grose, 1972; Scopel, 1964; Sonnenberg, 1984; Walker and Harms, 1972; Weimer, 1973; Weimer and Land, 1972b.
Measured section—Adams and Patton, 1979; Blood, 1970.

Lysite Member—see Wind River Formation.

Lytle Sandstone Member—see Purgatoire Formation.

Madden Field—Curtis, 1994; Hawkins and Baugh, 2006; Hogle and Jones, 1991.

Madera Formation—Woodward and others, 1978.

Madison Formation/Limestone/Group—Bergh and Snoke, 1992; Blackstone, 1989; Foster and others, 1968; Gerhard and Anderson, 1979; Grose, 1972; Hares, 1988; Hite, 1978; Hurst and Steidtmann, 1986; Jarvie, 2001; Longman, 1996; Martin and others, 1992; Mayer, 1964; Merin and Lindholm, 1986; Paylor and others, 1989; Petty, 2003; Petty, 2006; Stone, 1972; Van West, 1972.
Charles Formation—Hite, 1978; Johnson, 1995.
Core description—Longman, 1996.
Lodgepole Formation (Limestone)—Gilmore, 1990; Hayes, 1985; Johnson, 1995.
Measured section—Foster and others, 1968.
Mission Canyon Formation—Dolson and others, 1993.

Nesson Zone—Dean, 1987.
Pahasapa Formation—Petty, 2003.
Ratcliffe Zone—Dean, 1987.
Sun River Dolomite—Dolson and others, 1993.

Madison-Gravelly Arch—Dyman and others, 1988.
 Magdalena Pluton—White, 1979.
 Magnetic survey—Yacoub, 1965.
 Mal Paso Syncline—Johnson and others, 1991, 1992.
 Malpaso Formation—Jansma and others, 1991; Johnson and others, 1991, 1992; Monod and others, 1992.
 Mamoo Dolomite—Sahl and others, 1993.
 Mamoo Field—Sahl and others, 1993.
 Mancos 1 and 2 Shale Members—see Mancos Formation.
 Mancos Formation (Shale)—Correa, 1970; Gries, 1985; Madden, 1985; McPeck, 1965; Munger, 1965; Sinclair, 1964.
 Blue Gate Shale Member—Eaton, 1990; Matheny and Picard, 1985.
 Emery Sandstone Member—Eaton, 1990; Matheny and Picard, 1985.
 Ferron Sandstone Member—Matheny and Picard, 1985.
 Juana Lopez Member—Penttila, 1964; Weimer, 1982.
 Mancos 1 Shale Member—Weimer, 1982.
 Mancos 2 Shale Member—Weimer, 1982.
 Measured section—Newman, 1965b; Weimer, 1982.
 Niobrara Member—Weimer, 1982.
 Tununk Shale Member—Eaton and others, 1990.

Manderson Field—Coalson and Inden, 1990.

Manitoba Group
 Souris River Formation—Johnson, 1995.

Manitou Formation (Limestone)—Anderson, 1970; Bush and Bush, 1974; Chronic, 1964; Fischer, 1978; Gerhard and Wahlstedt, 1965; Grose, 1972.

Manitou spur—Blanton, 1975.

Manning Canyon Formation/Group—Mayer, 1964; Swetland and others, 1978.

Mannville Group—Dolson and others, 1993.

Mantle—Riecker, 1966.

Mapping techniques—Egbert and Armstrong, 1970.

Maquinita Granodiorite—Wobus and Hedge, 1982.

Marble Platform—Cepeda, 1994.

Marias River Shale—Yin, 1991.

Marmaton Group—Clair and Volk, 1968; Rogers, 1975.

Maroon Formation—DeVoto, 1965; Ettinger, 1964; Fryberger, 1979; Mallory, 1966b; Newton, 1964; Nuccio and others, 1989.
 Marshall Pass District—Chenoweth, 1978.
 Martin Group—Teichert, 1968.
 Mass wasting—Butler, 1983; Gates and Rahn, 1986.
 Masuk Formation—Eaton, 1990.
 Maury Shale—Johnson, 1995.
 Maybell District—Chenoweth, 1978,
 Mayflower Mine Fault—Thomas and others, 1996.
 Maywood Formation—Smith and Dorobek, 1989; Thomas and others, 1996.
 McCallum Field—Haverfield, 1970.
 McClure Gulch Carbonatite—Armbrustmacher and others, 1979.
 McClure Mountain-Iron Mountain Complex—Armbrustmacher and others, 1979; Heinrich and Salotti, 1975.
 McColley Canyon Formation—Schalla and Benedetto, 1991.
 McCourt Sandstone Tongue—see Rock Springs Formation.
 McCoy Gulch Carbonatite—Heinrich and Salotti, 1975.
 McCracken (Sandstone) Member—see Elbert Formation
 McDannald Thrust Fault—Ettinger, 1964.
 McDermott Member—see Animas Formation.
 McGill Anticline—Blackstone, 1994.
 McKenzie Thrust system—McDowell, 1998.
 McMurray sands—Zarrela, 1966.
 Meadow Creek Pipe—Kirchner, 1991.
 Meagher Limestone—Thomas and others, 1996.
 Meander Anticline—Loope and Verville, 1990.
 Measured sections
 Agate Creek Formation—DeVoto, 1964.
 Amsden Red Shale—Reeves, 1964.
 Belden Formation—DeVoto, 1965.
 Beulah Limestone—Foster and others, 1968; Ramirez L., 1974.
 Bighorn Dolomite—Reeves, 1964.
 Blackleaf Formation—Dyman and Tysdal, 1998.
 Burnt Gulch Formation—Martin and others, 1992.
 Cadiz Formation—Foster, 1994.
 Carlile Shale—Hattin, 1977.
 Codell Sandstone—Krutak, 1970.

Dakota Formation/Group—Graham and Ethridge, 1995; Hattin, 1977; MacKenzie, 1971; Odién, 1998; Owen, 1969.

Darby Formation—Reeves, 1964

Deadmans Gulch Formation—Bush and Bush, 1974.

Elephant Canyon Formation—Loope and Verville, 1990.

Evanston Formation—Salat and Steidtmann, 1991.

Flathead Sandstone—Beebe and Cox, 1998; Reeves, 1964.

Fountain Formation—Blood, 1970.

Fox Hills Formation—Covington, 1966; Hayes, 1967; Weimer, 1973.

Frontier Formation—Dyman and Tysdal, 1998; M'Gonigle and others, 1995.

Fruitland Formation—Manfrino, 1984.

Green River Formation—Donnell, 1965; Sanborn and Goodwin, 1965.

Greenhorn Limestone/Formation—Hattin, 1977.

Hardscrabble Limestone—Foster and others, 1968; Ramirez L., 1974.

Iles Formation—Madden, 1985; Newman, 1965b.

Jefferson Formation—Smith and Dorobek, 1989.

Kaibab Formation—Sorauf and Billingsley, 1991.

Kiowa Formation—Scott, 1977.

Laramie Formation—Hayes, 1967.

Leadville Limestone—Foster and others, 1968.

Lyons Sandstone (Formation)—Adams and Patton, 1979; Blood, 1970.

Lykins Formation—Blood, 1970.

Madison Limestone—Foster and others, 1968.

Mancos Shale (Formation)—Newman, 1965b; Weimer, 1982.

Mesaverde Group—Conley, 1964; Hansley and Johnson, 1980; Madden, 1985; Slatt and others, 1995.

Minnelusa Formation—Schenk and others, 1993.

Morrison Formation—Malone and Suttner, 1992.

Mowry Shale—Tysdal and others, 1989.

Niobrara Formation—Hattin, 1977.

North Horn Formation—Mattox and Weiss, 1987; Olsen, 1995.

Ohio Creek Formation—Newman, 1965b.

Peerless Formation—Bush and Bush, 1974.

Pictured Cliffs Sandstone—Manfrino, 1984.

Pierre Shale—Collins, 1987; Hattin, 1977; Hayes, 1967; Kiteley, 1976; Nichols and others, 1987; Weimer, 1973.

Precambrian rocks—Boardman, 1976.

Redwall Limestone—Foster and others, 1968.

Rock Springs Formation—Kirschbaum, 1986.
Sawatch Quartzite—Bush and Bush, 1974.
Snaky Canyon Formation—Verville and others, 1990.
Spearfish Formation—Ahlbrandt and Fox, 1997.
St. Louis Limestone—Foster and others, 1968.
Ste. Genevieve Limestone—Foster and others, 1968.
Sundance Formation—Ahlbrandt and Fox, 1997.
Three Forks Formation—Smith and Dorobek, 1989.
Toroweap Formation—Sorauf and Billingsley, 1991.
Triassic undifferentiated—Paull and Paull, 1998.
Uinta Mountain Group—Sanderson, 1984; Sanderson and Wiley, 1986.
Wasatch Formation—Newman, 1965b.
Weber Sandstone—Fryberger, 1979.
Williams Canyon Limestone—Ramirez L., 1974.
Williams Fork Formation—Madden, 1985; Newman, 1965b.
 Measurement While Drilling (MWD)—Slatt and others, 1995.
 Medicine Bow Formation—Blackstone, 1984, 1986.
 Medicine Bow surface—McCallum, 1968.
 Medicine Bow Thrust Fault—Corbett, 1966.
 Medicine Butte Thrust Fault—Salat and Steidtmann, 1991.
 Medicine Lodge Thrust Plate—Dyman and others, 1988; Tucker and Birdseye, 1989.
 Meeteetse Formation—Gillespie and Fox, 1991; Hogle and Jones, 1991; Natali and others, 2000.
 Mesaverde Formation/Group—Blackstone, 1984, 1986, 1989; Brister and Chapin, 1994; Conley, 1964; Gries, 1985; Kirschbaum and others, 1994; Krummel, 1973; Lang and others, 1991; Matheny and Picard, 1985; McCubbin and Brady, 1969; Millison, 1964, 1965; Natali and others, 2000; Nelson, 2002b; Newman, 1965b; Nuccio and others, 1989; Schmoker and others, 1996; Slatt and others, 1995; Tyler and others, 1997.
Alkali Butte Member—Hogle and Jones, 1991.
Almond Formation—Flores, 1978; Kovach and others, 2003; Laubach and others, 1993; Mulholland, 1994; Slatt and others, 1995; Tyler and others, 1997.
Blackhawk Formation—Frey and Howard, 1982; Olsen, 1995.
Blair Formation—Kirschbaum, 1986.
Castlegate Sandstone—Eaton, 1990; Olsen, 1995.
Fales Member—Hogle and Jones, 1991.
Gallup Formation—Penttila, 1964.
Hunter Canyon Formation—Hansley and Johnson, 1980.

Iles Formation—Anderson, 2005; Caldes, 2005; Madden, 1985.

Measured section—Conley, 1964; Hansley and Johnson, 1980; Madden, 1985; Slatt and others, 1995.

Ohio Creek Formation—Burger, 2007; Hansley and Johnson, 1980; Madden, 1985.

Parkman Sandstone—Coughlan and Steidtmann, 1984; Hogle and Jones, 1991.

Point Lookout Sandstone—Keighin and others, 1993; Larsen and others, 2000.

Price River Formation—Olsen, 1995; Witkind, 1992; Witkind and Page, 1984.

Rock Springs Formation—Laubach and others, 1993.

Teapot Sandstone—Coughlan and Steidtmann, 1984; Hogle and Jones, 1991; Mitchell and Rogers, 1993.

Wallace Creek Tongue—Hogle and Jones, 1991.

Williams Fork Formation—Cole and Cumella, 2005; Madden, 1985; Munger, 1965b.

Mescal Limestone—Kenny and Krinsley, 1998.

Metamorphic rocks—Beck, 1969; Catanzaro, 1967; Eggler, 1967; Everett and Hoisch, 2008; Gresens, 1971; Gresens and Stensrud, 1974; Hagner, 1967; Hedge, 1967; Karig, 1964; Klugman, 1966, 1967; Reuss, 1974.

Meteorite Impact Structure—Stone, 1999.

Meteorology—Millison, 1964.

Mexcala Formation—Jansma and others, 1991.

Mexican Volcanic Belt—Jansma and others, 1991.

Michigan Syncline—Yacoub, 1965.

Microbes—Kenny and Krinsley, 1998.

Microbial Petroleum—Lillis, 2007.

Micropeloids—Kenny and Krinsley, 1998.

Mid-Continent Gravity High—Kaplan and others, 1983.

Middle Fork Anticline—Munger, 1965a.

Middle Mountain Field—Weber, 1971.

Middle Park Formation—Nelson, 1971.

Mikesell Gulch Fault—Clarey and others, 1998; Cooperrider and Heinrich, 1978.

Milagros Mine—Woodward and others, 1978.

Milk River Formation—Young and others, 2006.

Mill Creek Syncline—Blackstone, 1986.

Mill Creek Thrust Fault—Stone, 1984b.

Mill Field—Stone, 1972.

Mimbres Peak Formation—Gornitz, 1982.

Minatare Field—Silverman, 1988.

Mineral exploration—Nelson, 1972.

Mineral Fork Tillite—Sanderson, 1984.

Mineralization—Bailey, 1972; Bird, 1972; Broughton, 1973; Caine and others, 2006; Childers, 1974; Downs and Bird, 1965; Harshman, 1972a, 1972b; Koschman, 1972; Langen and Kidwell, 1974; Nelson, 1971; Rackley, 1972; Taylor and Bornhorst, 1998; Thompson and Pulfrey, 1973.

Mineralogy—Murray and others, 1968.

Mining—Koschman, 1972; Sherman, 2009; Taylor and Bornhorst, 1998.

Minnekahta Limestone—Gries, 1964; Rascoe, 1968; Van West, 1972.
see also Goose Egg Formation.

Minnelusa Formation (Limestone)—Gary and McGregor, 1968; Gries, 1964; Hite, 1978; Johnson, 1988; Kirchner, 1991; Moore, 1975, 1983; Schenk and others, 1993; Schmoker and Schenk, 1988; Van West, 1972.

Minturn Formation—Chronic, 1964; Itano and Bateman, 2001; Itano and others, 2003; Munger, 1965a; Nuccio and others, 1989; Schavran, 1985; Stevens, 1965; Stone, 1994.

Mission Canyon Formation—see Madison Group.

Mitten Black Shale Member—see Pierre Shale.

Modern environments—Brady and Ward, 1974.

Moenkopi Formation—Blakey, 1973; Dubiel and others, 1989; Ritzma and Kaliser, 1977; Sorauf and Billingsley, 1991; Tubbs, 1989; Van Deventer and Picard, 1975.
Ali Baba Member—Ochs and Chan, 1990.
Black Dragon Member—Mitchell, 1985; Ochs and Chan, 1990.
Moody Canyon Member—Mitchell, 1985; Ochs and Chan, 1990.
Sinbad Member—Mitchell, 1985; Ochs and Chan, 1990.
Torrey Member—Mitchell, 1985; Ochs and Chan, 1990.
Virgin Limestone Member—Mitchell, 1985.

Mogollon Highland—Huntoon, 1996; Ochs and Chan, 1990.

Molas Formation—Bridges and McCarthy, 1990; Maslyn, 1977; Nuccio and others, 1989; Weimer, 1982.

Moleen Formation—Jansma and Mattioli, 1994.

Moncrief Conglomerate—Hoy and Ridgway, 1998.

Moncrief Member—see Wasatch Formation.

Mondak Field—Gerhard and Anderson, 1979.

Montana Fold Belt—Curtis, 1994.

Montana Transverse Zone—Perry, 1986.

Monte Grande Member—see San Lucas Formation.

Monument Uplift—Cepeda, 1994; Loope and Verville, 1990; Mitchell, 1985; Tubbs, 1989.

Moody Canyon Member—see Moenkopi Formation.

Moorcroft Field, West—Mettler, 1966.

Moose Creek Fault—Woodward and Bell, 1995.

Moosehorn Lake Formation—see Uinta Mountain Group.

Moppin Metavolcanic Series—Wobus and Hedge, 1982.

Moraine—McCallum, 1968.

Morelos Formation—Johnson and others, 1991, 1992; Monod and others, 1992.

Morgan Formation—Fryberger, 1979.

Moroni Formation—Witkind, 1992.

Morrill County High—Silverman, 1988.

Morrison Berm—LeRoy and Grose, 1967.

Morrison Formation—Blackstone, 1994; Chen and Lubin, 1997; Dolson and others, 1993; Ettinger, 1964; Gries, 1985; Grose, 1972; Hares, 1988; Haverfield, 1970; Houck, 2001; Hubert and Panish, 2000; Lauman, 1966; Lockley and others, 2001; Malone and Suttner, 1992; Modreski, 2001; Nuccio and others, 1989; Odien, 1998; Paylor and others, 1989; Pritchett, 1994; Scopel, 1964; Scott and Taylor, 1977; Tanner, 1968, 1970, 1972; Stapor, 1972; Weimer, 1982.

Brushy Basin Member—Bartleson and Jensen, 1988.

Measured section—Malone and Suttner, 1992.

Recapture Member—Bartleson and Jensen, 1988.

Salt Wash Member—Bartleson and Jensen, 1988; Chenoweth, 1978; Stone, 1994.

Tidwell Member—Bartleson and Jensen, 1988; Bernier and Chan, 2006.

Westwater Canyon Member—Bartleson and Jensen, 1988.

Morrow Sandstone (Formation)—Hammuda, 1974; Pickering and Indelicato, 1985; Sonnenberg, 1985.

Keyes Limestone Member—Sonnenberg, 1985.

Mosasaur—Martz, 1996.

Mosby Sandstone—Macdonald and Byers, 1988.

Mosquito-Weston Fault—DeVoto, 1964.

Moss Back Member—see Chinle Formation.

Moulton Sandstone Member—see Kootenai Formation.

Mount Agassiz Formation—Sanderson, 1984.

Mount Davis Volcanics—Mansholt, 1983.

Mount Owen Quartz Monzonite—Zartman and Reed, 1998.

Mount Watson Formation—see Uinta Mountain Group.

Mowry Shale—Ahlbrandt and Groen, 1987; Blackstone, 1989; Cardinal, 1970; Hamlin, 1996; Hares, 1988; Kauffman, 1969; Levey, 1992; Merewether, 1983; Merewether and others, 1979; Mitchell and Rogers, 1993; Young, 1970; Zarrela, 1966.

Clay Spur Bentonite bed—Merewether and others, 1979.
Measured section—Tysdal and others, 1989.
Vaughn Member—Tysdal and others, 1989.

Moxa Arch—Lehrer, 2006; Levey, 1992; Merewether, 1983.
 Mt. Antero Granite—Thompson and Pulfrey, 1973.
 Mt. Leidy Thrust Fault—Blackstone, 1989.
 Mt. Princeton Batholith—Thompson and Pulfrey, 1973.
 Mud Creek Fault—Grannell and Showalter, 1991.
 Muddy Sandstone (Formation)—Blackstone, 1984, 1989; Egbert and Armstrong, 1970; Estes-Jackson and others, 2000; Gary and McGregor, 1968; Gopinath, 1978; Mitchell, 1976; Mitchell and Rogers, 1993; Moore, 1984; Natali and others, 2000; Odien, 1998; Paylor and others, 1989; Stone, 1966; Tysdal and others, 1989; Woncik, 1969.
Fort Collins Member—Graham and Ethridge, 1995.
Horsetooth Member—Graham and Ethridge, 1995.
 see also Dakota Group.

Muleshoe mound—Johnson, 1995.
 Muley Canyon Sandstone—Eaton, 1990.
 Mural Limestone—see Bisbee Group.
 Mutual Formation—Sanderson, 1984.
 Nacimiento Formation—Brister and Chapin, 1994; Siems, 1964.
 Nacimiento Uplift—Woodward, 1986.
 Naco Formation—Webster and Elliott, 2004.
 Nash Fork-Mullen Creek shear zone—Ahlbrandt and Groen, 1987; Blackstone, 1986; Silverman, 1988; Stone, 1984b, 1985.
 Nash Fork-Quealy-Hartville Fault Zone—Stone, 1969.
 Natural Buttes Field—Cuzella and Stancel, 2006.
 Natural gas—Curtis, 1994, 1997; Oldham, 1997.
 Navajo Sandstone—Adams and Patton, 1979; Chenoweth, 1978.
 Nebraska Sand Hills—Ahlbrandt and others, 1994.
 Needle Mountains Uplift—Smith, 1983.
 Needle Range Formation—Nusbaum and Grant, 1987.
 Neiber Anticline—Coalson and Inden, 1990; Hares, 1988.
 Neihart Quartzite—see Belt Supergroup.
 Nemaha Arch—Kaplan and others, 1983.
 Nesson Anticline—Gerhard and Anderson, 1979; Johnson, 2001 .
 Nesson Zone—see Mission Canyon Formation.
 Nevada Formation—Flanigan, 1988.

Never Summer Thrust Fault—Corbett, 1966.

Newcastle bentonite—Cicimurri, 2000.

Newcastle Sandstone—Cicimurri, 2000.

Newland Limestone—see Belt Supergroup.

Newporte Field—Gerhard and Anderson, 1979.

Nick points—Campbell, 1966.

Niobrara Cyclothem—Barlow, 1986; Kauffman, 1977b; Kauffman and others, 1977; Kirschbaum, 1986.

Niobrara Formation—Ahlbrandt and Groen, 1987; Davis, 1985; Ettinger, 1964; Evetts, 1976; Grose, 1972; Kauffman, 1969; Kauffman and others, 1969; Krutak, 1970; Landon and others, 2001; Longman and others, 1998; Mitchell and Rogers, 1993; Pritchett, 1994; Silverman, 1988; Slatt and others, 1995; Sonnenberg, 1982; Sonnenberg and Weimer, 1993; Woodward, 1997.

Biogenic gas—Kelso and others, 2006.

Core description—Longman and others, 1998.

Fort Hays Limestone Member—Barlow, 1986; Frey and Howard, 1982; Hattin, 1977; Kauffman, 1977b; Kauffman and others, 1977; Sonnenberg and Weimer, 1993.

Measured section—Hattin, 1977.

Smoky Hill Member—Barlow, 1986; Hattin, 1977; Kauffman, 1977b; Kauffman and others, 1977; Pollastro and Martinez, 1985; Sonnenberg and Weimer, 1993; Weimer, 1982.

Niobrara Member/Formation—see also Cody Shale; Mancos Formation/Group.

Noble Fault—Cepeda, 1994.

Norfolk coalbed—see Fort Union Formation—Tongue River Member.

North Horn Formation—Mattox and Weiss, 1987; Olsen, 1995; Witkind, 1992; Witkind and Page, 1984.

Measured section—Mattox and Weiss, 1987; Olsen, 1995.

North Owl Creek Fault—Blundell and Marrs, 1991; Grannell and Showalter, 1991.

North Park Formation—McCallum, 1968.

North Park surface—McCallum, 1968.

North Platte River Hinge Lineament—Ahlbrandt and Groen, 1987.

North Snowy Block—Montgomery and Gray, 1989.

Nugget Sandstone—Dow, 1988; Geiser and others, 1988; Hull, 1999; Hurst and Steidtmann, 1986; Martin and others, 1992; Ritzma and Kaliser, 1977; Salat and Steidtmann, 1991.

Nyack Fault—Constenius, 1988.

Nye-Bowler Lineament (Fault Zone)—Robinson and Bamum, 1986; Stone, 1983.

Oak Creek Pluton—Noblett, 1987.

Oak Springs Member—see De Chelly Sandstone.

Oedekoven Field—Oldham, 1997; Stone, 1972.

Ogallala Formation/Group—Hattin, 1977; Pearl, 1971; Trimble, 1980.
Ash Hollow Formation—Collins and Nichols, 1987; Madden, 1977.

Ohio Creek Formation—see Mesaverde Group.

Oil and gas fields—see under specific name; Longman and Johnson, eds., 1999.

Oil Creek Graben—Gerhard, 1968.

Oil production—see petroleum production.

Oil shale—Culbertson, 1964, 1972; Donnell, 1965; Dyni, 1969; Dyni and Goodwin, 1972; Keighin, 1980; Larsen, 1972; Pitman and others, 1972; Smuin, 1990.
see also Green River Formation.

Oil Springs Anticline/Field—Blackstone, 1994.

Ojita Pluton—White, 1979.

Ojo Alamo Formation—Brister and Chapin, 1994.

Old Dolling Fault—Bergh and Snoke, 1992.

Olvida Gypsum—Hite, 1978.

Opeche (Shale) Formation—Hite, 1978; Johnson, 1988; Moore, 1983.

Opeche Shale Member—see Goose Egg Formation.

Ophir Formation—Goode, 1968.

Orbicular texture—Salotti and Fouts, 1964.

Ore deposits—Bailey, 1972; Bird, 1972; Broughton, 1973; Calkin and others, 1972; Chenoweth, 1978; Childers, 1974; DeVoto and Maslyn, 1977; Downs and Bird, 1965; Harshman, 1972a, 1972b; Huntoon, 1996; Koschman, 1972; Langen and Kidwell, 1974; Nelson, 1971; Nusbaum and Grant, 1987; Rackley, 1972; Taylor and Bornhorst, 1998; Thompson and Pulfrey, 1973; Woodward, 1993; Woodward and others, 1978.

Oregon Basin Anticline/Field—Hares, 1988.

Oregon Basin Thrust Fault—Grannell and Showalter, 1991; Stone, 1984a.

Oregon Trail Field—Silverman, 1988.

Organ Caldera—Gornitz, 1982.

Organ Rock Member—see Cutler Formation.

Organic geochemistry—Nuccio and others, 1989; Pekarek, 1988; Pollastro and Martinez, 1985; Silverman, 1988; Stone, 1994; Swetland and others, 1978.

Orogeny—Catanzaro, 1967.

Ortega Quartzite—Baars and Stevenson, 1984; Gresens and Stensrud, 1974; Wobus and Hedge, 1982.

Orvis Fault Block—Weimer, 1982.

Osage Series—Stoddard, 1968.

Oscura Pluton—White, 1979.

Otter Formation—Webster and Waters, 2005.

Ouray Formation—Baars and Campbell, 1968; Maslyn, 1977; Pampe, 1973; Weimer, 1982.

Ouray Graben—Weimer, 1982.

Overpressure—Robinson, 2000; Tyler and others, 1997; Warner, 2000; Zarrela, 1966.

Owiyukuts Complex—Sanderson and Wiley, 1986.

Owl Creek Fault—Paylor and others, 1989.

Owl Creek Thrust—Natali and others, 2000.

Owl Creek Uplift—Hansley and Brown, 1993.

Oxyoke Canyon Sandstone—Schalla and Benedetto, 1991.

Oyster Ridge Sandstone—see Frontier Formation

Pachalka Springs Pluton—Mueller and others, 1979.

Page Sandstone—Ahlbrandt and others, 1994.

Pahasapa Limestone—Kirchner, 1991; Merin and Lindholm, 1986; Petty, 2003.

Paintrock Thrust-Fold—Stone, 1987.

Paleocaves—Huntoon, 1996.

Paleocene-Eocene Boundary—Milner and others, 2005.

Paleoclimate—Childers, 1974; De Voto, 1972; Millison, 1964.

Paleocurrents—Brister and Chapin, 1994; Foster, 1994; Kirschbaum and others, 1994; Lindsey, 1998; Odien, 1998.

Paleodrainage—De Voto, 1972; Pearl, 1971; Stone, 1972.

Paleogeography—Ahlbrandt and Fox, 1997; Al-Raisi and others, 1996; Armstrong and Oriel, 1965; Baars and Campbell, 1968; Blakey, 1973; Brister and Chapin, 1994; Campbell, 1970; Chronic, 1964; Clair and Volk, 1968; Covington, 1966; DeVoto, 1965, 1972; DuBois, 1996; Gerhard, 1968; Graham and Suttner, 1974; Griffith, 1965; Hamlin, 1996; Hammuda, 1974; Harms, 1964; Howard, 1966; Juhan, 1965; Kauffman, 1969; Keefer, 1965; Kirschbaum and others, 1994; Mack and Dinterman, 2002; MacKenzie, 1971, 1972; Mallory, 1966a; Matuszcak, 1973; McCallum, 1968; McCubbin and Brady, 1969; Millison, 1964; Odien, 1998; Rackley, 1972; Ramirez L., 1974; Rascoe, 1968; Rogers, 1971; Sanborn and Goodwin, 1965; Schleh, 1968; Snow, 1970; Stevens, 1965; Stone, 1972; Tanner, 1968, 1970; Thomas and others, 1996; Van West, 1972; Walker and Harms, 1972; Weber, 1971; Weimer, 1970, 1973; Weimer and Land, 1972a, 1972b; Woncik, 1969; Young, 1970.

Paleokarst—Huntoon, 1996; Petty, 2006; Stapor, 1972; Tanner, 1972.

Paleomagnetism—Murray and others, 1968.

Paleontology—Murray and others, 1968.

Invertebrate—Abplanalp and others, 2009; Anderson, 1970; Bibler and Schmitt, 1986; Blakey, 1973; Campbell, 1970; Chronic, 1964; Cicimurri, 2001; Cicimurri,

2004; Coalson and Inden, 1990; Conley, 1965; Coughlan and Steidtmann, 1984; Cronoble, 1974; DeVoto, 1965; Dubiel and others, 1989; Dyman and others, 1988; Eaton, 1990; Eaton and others, 1990; Ellis, 1966; Fischer, 1978; Flores and Erpenbeck, 1981; Flores and Tur, 1982; Foster, 1994; Frey and Howard, 1982; Fryberger, 1979; Gilmore, 1990; Graham and Ethridge, 1995; Hattin, 1977; Itano and Bateman, 2001; Itano and others, 2003; Johnson, 1995; Johnson and others, 1991; Kauffman, 1969, 1977a, 1977b, 1977c; Kauffman and others, 1969, 1977; Keighin and others, 1993; Kenny and Krinsley, 1998; Kirschbaum, 1986; Kiteley, 1976; Lang and others, 1991; Leggitt and Loewen, 2007; Leggitt and others, 2007; Longman, 1996; Macdonald and Byers, 1988; Mack and Miller, 1980; Madden, 1985; Manfrino, 1984; Matheny and Picard, 1985; Mayer, 1964; McCubbin and Brady, 1969; Merewether, 1983; Merewether and others, 1979; Merin and Lindholm, 1986; Mitchell, 1976, 1985; Nichols and Jacobson, 1982; Nwangwu, 1977; Paull and Paull, 1998; Penttila, 1964; Perman, 1987; Ramirez L., 1974; Roybal, 1981; Ryer, 1976, 1977; Sanborn and Goodwin, 1965; Schmitt, 1985; Scott, 1977; Scott and Taylor, 1977; Sinclair, 1964; Stevens, 1965; Tysdal and others, 1989; Webster and Elliott, 2004; Webster and Waters, 2005; Weimer, 1982; Winn and others, 1983.

Invertebrate (modern)—Gerhard, 1978.

Microfossils—Baars, 1991; Eicher, 1977; Ellis, 1966; Evetts, 1976; Gilmore, 1990; Hayes, 1985; Kauffman, 1977b; Lang and others, 1991; Loope and Verville, 1990; Mitchell, 1976; McCubbin and Brady, 1969; Newman, 1965a, 1965b; Ramirez L., 1974; Rogers and others, 1995; Sanderson and Verville, 1990; Sinclair, 1964; Verville and others, 1990.

Modern flora—Collins and Collins, 1984; Gerhard, 1978.

Paleoanthropology—Hansen, 1985.

Paleobotany—Cronoble, 1974; Hite, 1972; Ramirez L., 1974; Ross and McAllister, 1981.

Palynology—Clarke, 1965; Cross, 1964; Dyman and others, 1988; Flemings and Nelson, 1991; Kirschbaum and others, 1994; Kluth and Nelson, 1988; Lillegraven and McKenna, 2008; Manfrino, 1984; Mitchell, 1976; Murray and others, 1968; Newman, 1965a; Nichols, 2009; Nichols and Flores, 2006; Nichols and Jacobson, 1982.

Trace fossils—Beebee and Cox, 1998; Bohacs and other, 2007; Fischer, 1978; Graham and Ethridge, 1995; Kurtz and others, 2001; Matthews and Breithaupt, 2001; Lockley, 2001; Lockley and others, 2001; Lockley and others, 2001; MacKenzie, 1971, 1972; McCubbin and Brady, 1969.

Vertebrate—Bartleson and Jensen, 1988; Bernier and Chan, 2006; Burger, 2007; Cicimurri, 2000; Dubiel and others, 1989; Eaton, 1990; Edwards, 1976; Evetts, 1979; Fischer, 1978; Hansen, 1985; Hattin, 1977; Kauffman, 1977a; Kirschbaum and others, 1994; Lockley, 1987; Lockley and others, 1983; Lockley and others, 2001; Madden, 1977; Martz, 1996; Modreski, 2001; Nichols and Jacobson, 1982;

- Randall, 1965; Siems, 1964; Stucky and Krishtalka, 1991; Townsend and others, 2006; Walker and Harms, 1972.
- Vertebrate (modern)*—Hansen, 1985.
- Paleo-oceanography—Barlow, 1986; Bitter, 1986; Foster, 1994; Kauffman, 1977a, 1977b; Lang and others, 1991; Macdonald and Byers, 1988.
- Paleoshoreline—Berg, 1976; Bibler and Schmitt, 1986; Carr, 1985; Coughlan and Steidtmann, 1984; Flores and Erpenbeck, 1981; Flores and Tur, 1982; Keighin and others, 1993; Kirschbaum, 1986; Madden, 1985; Manfrino, 1984; Matheny and Picard, 1985; Mitchell, 1985; Ochs and Chan, 1990; Van Deventer and Picard, 1975.
- Paleosol—Baker, 1973; Kraus and Wells, 1999; Malone and Suttner, 1992; Martin and others, 1992; Olsen, 1995; Scopel, 1964.
- Paleotransport—Ahlbrandt, 1975; Ahlbrandt and others, 1994; Berg, 1976; Bibler and Schmitt, 1986; Blakey, 1973; Brister and Chapin, 1994; Crifasi, 1992; Dyman and others, 1988; Flemings and Nelson, 1991; Flores, 1978; Flores and Erpenbeck, 1981; Flores and Tur, 1982; Foster, 1994; Fryberger, 1979; Gillespie and Fox, 1991; Gopinath, 1978; Howard, 1966; Hurst and Steidtmann, 1986; Kirschbaum, 1986; Kirschbaum and others, 1994; Mack, 1977; Madden, 1985; Malone and Suttner, 1992; Matheny and Picard, 1985; Ochs and Chan, 1990; Olsen, 1995; Rogers, 1975; Rogers and others, 1995; Salat and Steidtmann, 1991; Sanderson and Wiley, 1986; Schmitt, 1985; Seeling, 1978; Tanner, 1971; Tubbs, 1989; Van Deventer and Picard, 1975.
- Panther Sandstone Tongue—see Star Point Formation.
- Parachute Creek Member—see Green River Formation.
- Paradise Formation—Sivils and Johnson, 2000.
- Paradise-Joes Valley Fault System—Matheny and Picard, 1985.
- Paradox Formation/Member—see Hermosa Group.
- Paria River Member—see Carmel Formation.
- Paris-Willard Thrust Allochthon—Hurst and Steidtmann, 1986; Salat and Steidtmann, 1991; Schmitt, 1985.
- Park City Formation—Coalson and Inden, 1990; Fryberger, 1979; Sheldon, 1967.
- Park Shale—Thomas and others, 1996.
- Parkman Sandstone—see Mesaverde Formation.
- Parting Formation—Baars and Campbell, 1968.
- Parting Quartzite—Bridges and McCarthy, 1990; Chronic, 1964.
- Pass Creek Field—Stone, 1984b.
- Pass Creek Formation—Hansen, 1985.
- Pathfinder Uplift—Mallory, 1966a.
- Patrick Draw Field—McCubbin and Brady, 1969; Slatt and others, 1995.
- Patsy Mine Volcanics—Mansholt, 1983.

Patterned ground—Murray, 1967.
 Paunsagunt Fault—Cepeda, 1994.
 Pavillion Butte Unit—see Wind River Formation.
 Payne Field—Mitchell and Rogers, 1993.
 Peay Sandstone Member—see Frontier Formation.
 Pediment—Campbell, 1966; Pearl, 1968.
 Peerless Formation (Shale)—Anderson, 1970; Bush and Bush, 1974; Chronic, 1964.
 Measured section—Bush and Bush, 1974.
 Pegmatite—Cooperrider and Heinrich, 1978; Gresens, 1971.
 Pekisko Formation—Johnson, 1995.
 "Pennsylvanian basal conglomerate"—Rogers and others, 1995.
 Peoria Field—Ecker, 1971; Geyer, 1972.
 Perry Park-Jarre Canyon Fault—Leonard and Langford, 1994.
 Petrography/petrology—Beck, 1969; Campbell, 1970; Emmett and others, 1972;
 Gresens, 1971; Hayes, 1967; MacKenzie, 1972; Matuszcak, 1969, 1973; Murray
 and others, 1968; Rogers, 1971.
 Carbonate—Ahlbrandt and Fox, 1997; Barlow, 1986; Cronoble, 1974; Foster,
 1994; Frey and Howard, 1982; Fryberger, 1979; Gerhard, 1978; Gilmore, 1990;
 Griffith, 1965; Hoholick and others, 1982; Johnson, 1995; Juhan, 1965; Longman,
 1996; Macdonald and Byers, 1988; Mack and Miller, 1980; Malone and Suttner,
 1992; McCubbin and Brady, 1969; Mitchell, 1985; Munger, 1965; Pampe, 1973;
 Pollastro and Martinez, 1985; Ramirez L., 1974; Rogers and others, 1995; Ross
 and McAllister, 1981; Schmoker and Schenk, 1988; Smith and Dorobek, 1989;
 Tyler and Campbell, 1975; Veal and others, 1988.
 Clastic—Adams and Patton, 1979; Al-Raisi and others, 1996; Baars and
 Stevenson, 1984; Barlow, 1986; Beebee and Cox, 1998; Bibler and Schmitt,
 1986; Bitter, 1986; Breyer, 1983; Brister and Chapin, 1994; Carr, 1985; Conley,
 1964; Coughlan and Steidtmann, 1984; Dubois, 1996; Dyman and others, 1988;
 Flores, 1978; Frey and Howard, 1982; Fryberger, 1979; Garbarini, 1964; Gerhard,
 1978; Graham and Suttner, 1974; Hansen, 1984; Hansley and Brown, 1993;
 Hansley and Johnson, 1980; Harrington, 1985; Hoholick and others, 1982; Huber
 and Grogger, 1985; Keighin and others, 1993; Kirschbaum, 1986; Kirschbaum
 and others, 1994; Lin, 1981; Mack, 1977; Malone and Suttner, 1992; Manfrino,
 1984; Martin and others, 1992; Matheny and Picard, 1985; Merin and Lindholm,
 1986; Mettler, 1966; Mitchell, 1985; Moore, 1975; Nwangwu, 1977; Ochs and
 Chan, 1990; Odien, 1998; Perman, 1987; Robertson, 1984; Rogers and others,
 1995; Roybal, 1981; Sahl and others, 1993; Salat and Steidtmann, 1991;
 Sanderson, 1984; Sanderson and Wiley, 1986; Schmitt, 1985; Schmoker and
 Schenk, 1988; Seeling, 1978; Segal and others, 1986; Silverman, 1988; Smith,
 1983; Tubbs, 1989; Tucker and Birdseye, 1989; Winn and others, 1983.
 Coal—Kirschbaum, 1986.

Evaporite—Shaw, 1977; Smith and Dorobek, 1989.

Igneous—Armbrustmacher and others, 1979; Boardman, 1976; Braddock and Peterman, 1989; Brookins, 1982; Brookins and others, 1978; Cooperrider and Heinrich, 1978; Gornitz, 1982; Heinrich, 1977; Heinrich and Salotti, 1975; Kirchner, 1991; Larson and Amini, 1981; Lester, 1993; Luft, 1985; Mansholt, 1983; Marsh and Smith, 1997; M'Gonigle and Dalrymple, 1993; Mueller and others, 1979; Murray, 1975; Nusbaum and Grant, 1987; Salotti and Fouts, 1964; White, 1979; Wobus and Hedge, 1982; Woodward and others, 1978.

Metamorphic—Boardman, 1976; Cooperrider and Heinrich, 1978; Gresens and Stensrud, 1974; Karig, 1964; Noblett, 1987; Sanderson and Wiley, 1986; Tucker and Birdseye, 1989; Woodward and others, 1978.

Sedimentary—Ahlbrandt and Fox, 1997; Al-Raisi and others, 1996; Berg, 1976; Flores and Erpenbeck, 1981; Flores and Tur, 1982; Gopinath, 1978; Larsen and others, 2000; Longman and others, 1998; Merewether and others, 1979; Reheis, 1980; Reinert and Davies, 1976.

Petroleum maturation—Vredenburg and Cheney, 1970.

Petroleum migration—Berry, 1967; Clair and Volk, 1968; Dolson and others, 1993; Mitchell and Rogers, 1993; Sheldon, 1967.

Petroleum production—Amsbury, 1967; Berry, 1967; Byrnes, 1997; Cardinal, 1970; Carlson, 1967; Chancellor, 1964, 1967; Chatfield, 1965; Clair and Volk, 1968; Clement and Dolton, 1970; Collins, 1971; Cronoble, 1969; De Voto and Larsen, 1972; Donnell, 1965; Dyni and Goodwin, 1972; Ecker, 1971; Emmett and others, 1972; Garbarini, 1964; Gary and McGregor, 1968; Geyer, 1972; Gries, 1964; Griffith, 1965; Haverfield, 1970; Hoffman, 2008a, 2008b; Krummel, 1973; Larsen, 1972; Lauman, 1966; Longman and Johnson, eds., 1999; MacKenzie, 1971; Matson and Schneider, 1968; Matuszcak, 1969, 1973; McCubbin and Brady, 1969; Mettler, 1966; Millison, 1965; Nolte, 1967; Osmond, 1966; Parker, 1966; Penttila, 1964; Plant and others, 1971; Ramirez L., 1974; Rogers, 1971; Scobey, 1964; Sheldon, 1967; Shenk, 1971; Snow, 1970; Stoddard, 1968; Stone, 1966, 1972; Taylor, 1970; Tobison, 1967; Van West, 1972; Weber, 1971; Weimer and Land, 1972; Williamson, 1965; Woncik, 1969.

Anadarko Basin—Rogers and others, 1995.

Appalachian Basin—Johnson, 1995.

Big Horn Basin—Coalson and Inden, 1990; Hares, 1988.

Denver Basin—Al-Raisi and others, 1996; Dubois, 1996; Kittleson, 1992; Pritchett, 1994; Sahl and others, 1993; Schmoker, 1996; Silverman, 1988; Sonnenberg, 1982, 1985; Sonnenberg and Weimer, 1993.

Great Basin—Flanigan, 1988; Veal and others, 1988.

Great Divide Basin—Gries, 1981.

Green River Basin—Tyler and others, 1997.

Hanna Basin—Blackstone, 1994.

Monte Vista Basin—Brister and Chapin, 1994.

Powder River Basin—Ahlbrandt and Fox, 1997; Berg, 1976; Lin, 1981; Mitchell and Rogers, 1993; Moore, 1984; Oldham, 1997.

Rocky Mountains—Curtis, 1997.

San Juan Basin—Keighin and others, 1993.

San Juan Sag—Brister and Chapin, 1994.

Uinta Basin—Schmoker and others, 1996.

Williston Basin—Gerhard and Anderson, 1979; Johnson, 1995; Longman, 1996.

Wind River Basin—Hogle and Jones, 1991; Mitchell, 1976; Robertson, 1984.

Petroleum systems—Dubiel, 2007; Jarvie, 2001; Roberts and others, 2004.

Petroleum taxes—Pritchett, 1994.

Petrophysics—Byrnes, 1997; Keighin and others, 1993.

Pfeifer Member—see Greenhorn Limestone/Formation.

Pheasant Field—Amsbury, 1967.

Philipsburg Thrust Fault—Woodward, 1993; Camilleri, 2000.

Phlox Mountain Anticline—Blundell and Marrs, 1991.

Phosphate—Allison, 1966; Bitter, 1986; Coalson and Inden, 1990; Hattin, 1977; Hayes, 1967; Nwangwu, 1977; Seeling, 1978.

Phosphoria Formation—Blackstone, 1989; Coalson and Inden, 1990; Fryberger, 1979; Gries, 1981; Gulbrandsen, 1971; Hite, 1978; Hurst and Steidtmann, 1986; Paylor and others, 1989; Rogers, 1971; Sheldon, 1967; Stone, 1972; Verville and others, 1990; Vredenburg and Cheney, 1970.
see also Park City Formation.

Phosphorite—Gulbrandsen, 1971; Hite, 1978; Sheldon, 1967.

Photogeology—Doeringsfeld and Ivey, 1964; Matthews and Breithaupt, 2001.

Piceance Creek Field—Dyini, 1969; Snow, 1970.

Picket Lake area—Bailey, 1972.

Picnic Tree Orebody—Dickinson, 1981.

Pictured Cliffs Sandstone—Flores and Erpenbeck, 1981; Gries, 1985; Manfrino, 1984; Matuszczak, 1969.
Measured section—Manfrino, 1984.

Picuris Formation—Siems, 1964.

Picuris-Pecos Fault—Baars and Stevenson, 1984.

Pierce Field—Sonnenberg, 1984.

Pierre Shale (Formation)—Clement and Dolton, 1970; Crifasi, 1992; Ettinger, 1964; Flores and Tur, 1982; Grose, 1972; Hayes, 1967; Kiteley, 1976; Kittleson, 1992; Martz, 1996; Matuszczak, 1969; Nwangwu, 1977; Pillmore, 1969; Pritchett, 1994; Sawatzky, 1964; Wallace, 1988; Weimer, 1973; Woodward, 1997.
Apache Creek Sandstone Member—Kauffman and others, 1977.
Crow Creek Member—Collins and Nichols, 1987.

DeGrey Member—Collins and Nichols, 1987; Nichols and others, 1987.

Elk Butte Member—Collins and Nichols, 1987.

Gammon Ferruginous Member—Kiteley, 1976.

Lake Creek Shale Member—Hattin, 1977.

Hygiene Sandstone Member—Davis, 1985; Kiteley, 1976; Kittleson, 1992.

Larimer Sandstone Member—Kiteley, 1976.

Measured section—Collins, 1987; Hattin, 1977; Hayes, 1967; Kiteley, 1976; Nichols and others, 1987; Weimer, 1973.

Mitten Black Shale Member—Kiteley, 1976.

Richard Sandstone Member—Kiteley, 1976.

Rocky Ridge Sandstone Member—Kiteley, 1976.

Rusty Zone—Kauffman and others, 1977.

Salt Grass Shale Member—Hattin, 1977.

Shannon Sandstone Member—Seeling, 1978.

Sharon Springs Member—Hattin, 1977; Kauffman and others, 1977; Kiteley, 1976; Slatt and others, 1995.

Tepee Zone—Kauffman and others, 1977.

Unnamed units—Kiteley, 1976.

Verendrye Member—Collins and Nichols, 1987; Nichols and others, 1987.

Virgin Creek Member—Collins, 1987; Collins and Nichols, 1987; Nichols and others, 1987.

Weskan Shale Member—Hattin, 1977.

Pikes Peak Granite—Blanton, 1975; Grose, 1972; Huber and Grogger, 1985; Matthews, 1986a; Murray, 1975.

Pilgrim Limestone—Brown, 1984; Matthews, 1986a; Thomas and others, 1996.

Pilot Shale—Hayes, 1985; Pekarek, 1988.

Pinedale Field—Kneller and others, 2006.

Pine Mountain Thrust—Geiser and others, 1988.

Pine Salt—Hite, 1978.

Pineview Oil Field—Hull, 1999.

Piney Creek Alluvium—Pearl, 1968.

Pinkerton Formation—see Hermosa Group.

Pinyon Conglomerate—Blackstone, 1989; Hansen, 1985.

Pioneer Batholith—Dyman and others, 1988.

Pioneer Mountains—Swetland and others, 1978.

Piper Formation—Schmude, 2000.

Pitch Mine—Chenoweth, 1978.

Placeres del Oro Batholith—Johnson and others, 1991.

Placerville District—Chenoweth, 1978.

Plainview Sandstone Member—see Dakota Group.

Plateau Rhyolite, Central Plateau Member—see Dallegge, 2008.

Platoro Caldera—Bird, 1972; Gries, 1985.

Platy Limestone Unit—see Bird Spring Group.

Pluton—Beck, 1969.

Plutonism—Brookins and others, 1978; Cooperrider and Heinrich, 1978; Hansen, 1998; Kauffman, 1977b; Marsh and Smith, 1997; Montgomery and Gray, 1989; Mueller and others, 1979; Nuccio and others, 1989; Smith and Marsh, 1998; White, 1979; Wobus and Hedge, 1982; Woodward, 1986; Zartman and Reed, 1998.

Pogonip Group—Camilleri, 1992; Pekarek, 1988.

Point Lookout Sandstone—see Mesaverde Group.

Poison Canyon Formation—Alther, 1977; Lindsey, 1998; Pillmore, 1969; Woodward, 1997.

Poison Ridge intrusives—Nelson, 1971.

Pollution—Colorado Department of Health, 1971; Colorado Oil and Gas Conservation Commission, 1971; Snow, 1973.

Polvadera Group—Gornitz, 1982.

Pontotoc Group—Rascoe, 1968.

Pony Spring Member—see Maroon Formation

Pool Creek Member—see Carlile Shale.

Popo Agie Formation—High and Picard, 1967.

Porcupine Field—Mitchell and Rogers, 1993.

Porosity

Chert—Rogers and others, 1995.

Dolomite—Dolson and others, 1993.

Limestone—Coalson and Inden, 1990; Dean, 1987; Flanigan, 1988; Johnson, 1995; Mitchell, 1985; Mitchell and Rogers, 1993; Pollastro and Martinez, 1985; Rogers and others, 1995; Schmoker and Schenk, 1988; Sonnenberg and Weimer, 1993.

Sandstone—Al-Raisi and others, 1996; Berg, 1976; Byrnes, 1997; Dubois, 1996; Keighin and others, 1993; Matheny and Picard, 1985; Mettler, 1966; Moore, 1975, 1984; Robertson, 1984; Sahl and others, 1993; Silverman, 1988; Smith, 1983; Winn and others, 1983; Zarrela, 1966.

Potential Gas Committee—Curtis, 1994.

Potentiometry—Lin, 1981.

Potosi Volcanic Series—Sinclair, 1964.

Poudre River—Corbett, 1966.

Powder Wash Field—Anderson, 2006; Collins, 1971; Millison, 1965.

Power Plant Field—Silvennan, 1988.

Prairie Evaporite—Longman, 1996.

Pratt Anticline—Rogers and others, 1995.

Precambrian life—Kenny and Krinsley, 1998.

Precambrian rocks—Armbrustmacher and others, 1979; Baars and Stevenson, 1984; Bergh and Snoke, 1992; Blundell and Marrs, 1991; Boardman, 1976; Brister and Chapin, 1994; Brookins, 1982; Brookins and others, 1978; Brown, 1984; Clarey and others, 2004; Dickinson, 1981; Erslev, 1985; Gries, 1981; Heinrich and Salotti, 1975; Leonard and Langford, 1994; Matthews, 1986a, 1986b; Merin and Lindholm, 1986; Montgomery and Gray, 1989; Noblett, 1987; Reinking and Hoeksema, 1980; Reuss, 1974; Rogers, 1975; Salotti and Fouts, 1964; Scopel, 1964; Spang and others, 1985; Stone, 1984a; Woodward, 1986; Woodward and others, 1978.

Measured section—Boardman, 1976.

Price River Formation—see Mesaverde Group.

Production decline curve—Rogers and others, 1995.

Professionalism—Henderson, 2005.

Provenance—Allison, 1966; Bailey, 1972; Basu and others, 1998; Beebee and Cox, 1998; Brister and Chapin, 1994; Childers, 1974; Hansley and Brown, 1993; Harshman, 1972a; Johnson, 1968; Kirschbaum and others, 1994; Pearl, 1971; Rackley, 1972; Thomas, 1971.

Pruess Sandstone—Ritzma and Kaliser, 1977.

Puddle Springs Arkose Member—see Wind River Formation.

Purgatoire Formation—Grose, 1972; Odien, 1998; Young, 1970.

Glencairn Shale Member—Scott and Taylor, 1977.

Lytle Sandstone Member—LeRoy, 1965; Scott and Taylor, 1977.

Quadrant Formation—Verville and others, 1990.

Quartz Creek Anticline—Sinclair, 1964.

Quaternary deposits—Ahlbrandt, 1975; Alther, 1977; Collins and Nichols, 1987; Hattin, 1977; Huber and Grogger, 1985; Locke, 1987; Martin and others, 1992; Nettleton and Chadwick, 1991; Reheis, 1980; Reinking and Hoeksema, 1980; Smuin, 1990.

Quaternary tectonics—Shawe and others, 2008.

Quealy Dome Fault—Stone, 1966.

Quealy Dome—Blackstone, 1984, 1986; Stone, 1985.

Rabbit Ears Range—Nelson, 1971.

Radiocarbon dates—Randall, 1965.

Radiometric survey—Segal and others, 1986.

Ralston shear zone—Davis, 1985.

Rampart Range Fault—Blanton, 1975; Grose, 1972; Leonard and Langford, 1994.

Ranch Creek Field—Gary and McGregor, 1968.

Rangely Anticline/Field—Dyni, 1969; Dyni and Goodwin, 1972; Fryberger, 1979; Nelson, 2007.

Rare earths—Armbrustmacher and others, 1979; Brookins, 1982; Heinrich and Salotti, 1975.

Ratcliffe Zone—see Charles Formation.

Raton Coal Field—Pillmore, 1969.

Raton Formation—Lindsey, 1998; Pillmore, 1969; Woodward, 1997.

Rattlesnake Mountain Anticline—Brown, 1984; Matthews, 1986a; Stone, 1984a.

Rattlesnake Pass Fault—Stone, 1984b.

Rawlins Uplift—Merewether, 1983; Perman, 1987.

Rawls Basalt—Gornitz, 1982.

Razor Back Formation—Gornitz, 1982; Reade, 1976; Trimble, 1980; Wallace, 1988.

Reader survey—Schmoker and Travisano, 1993.

Reagan Sandstone—Clair and Volk, 1968.

Recapture Member—see Morrison Formation.

Recluse Field—Oldham, 1997; Stone, 1972; Woncik, 1969.

Red Bird Field—Ahlbrandt and Fox, 1997; Ahlbrandt and others, 1994.

Red Canyon—Ahlbrandt and Fox, 1997.

Red Castle Formation—see Uinta Mountain Group.

Red Creek facies—see Wind River Formation.

Red Creek Quartzite—Hansen, 1984, 1985; Sanderson and Wiley, 1986.

Red Lion Formation—Thomas and others, 1996.

Red Peak Formation—High and Picard, 1967.

Red Pine Shale—see Uinta Mountain Group.

Red River Formation—Gerhard and Anderson, 1979.

Red Rocks Fault—Wong and Humphrey, 1986.

Red Shale Marker—Ahlbrandt and others, 1994; Sahl and others, 1993.

Red Springs Anticline—Grannell and Showalter, 1991; Paylor and others, 1989.

Red Springs Fault Blocks—Axen, 1989; Matthews, 1988, 1989.

Red Wash Field—Chatfield, 1965; Dyni and Goodwin, 1972.

Red Wash Syncline—Dyni, 1969.

Red Wing Creek Field—Gerhard and Anderson, 1979.

Redcliff Member—see Leadville Limestone.

Redwall Limestone—Foster and others, 1968; Huntoon, 1996; Segal and others, 1986.

Measured section—Foster and others, 1968.

Reed Point Syncline—Stone, 1983.

Reef—Cronoble, 1974; Longman, 1996; Roybal, 1981.

Regina Member—see San Jose Formation.

Rehoboth Member—see Robertson and O’Sullivan, 2001.

Reinecker Ridge—Sawatzky, 1964.

Remote sensing—Jansma and others, 1991; Johnson and others, 1991; Lang and others, 1991; Paylor and others, 1989; Segal and others, 1986; Stucky and Krishtalka 1991.

Rendevous Metagabbro—Zartman and Reed, 1998.

Reno Field—Amsbury, 1967.

Renova Fomation—Basu and others, 1998; Constenius, 1988.

Report writing—Goode, 1968.

Reptile—Martz, 1996.

Reserve estimates—Lamarre and Pratt, 2002; Schmoker, 1996.

Reservoir characteristics—Anderson, 2005; Al-Raisi and others, 1996; Hoffman, 2008b; Lamarre and Pratt, 2002; Longman, 1996; Morgan and Bereskin, 2003; Schmoker, 1996; Schmoker and others, 1996.

Reservoir damage—Hoffman, 2008a.

Resistivity mapping—Mitchell and Rogers, 1993; Sonnenberg and Weimer, 1993.

Resource assessment—Curtis, 1997; Schmoker and others, 1996.

Retort Member—see Park City Formation.

Rex Chert Member—see Park City Formation.

Rex Lake Field—Stone, 2002.

Richard Sandstone Member—see Pierre Shale.

Ridgeway Fault—Bun and Stevenson, 1984; Wong and Humphrey, 1986.

Rierdon Formation—see Ellis Group.

Rifle District—Chenoweth, 1978.

Rifle Shale Unit—see Iles Formation.

Rinconada Schist—Gresens and Stensrud, 1974.

Ring-dike complex—Eggler, 1967.

Rio Grande Rift—Gornitz, 1982.

Ripple marks—Tanner, 1996.

Riverton Dome Field—Estes-Jackson and others, 2000.

Road log—Boos and Nance, 1970; Boos and others, 1970; Calkin and others, 1972; De Voto and Larsen, 1972; De Voto and others, 1972; Dyni and Goodwin, 1972; Gerhard and Mark, 1968; Gerhard and others, 1970; Hall and Bullock, 1970; Hattin, 1977; Kauffman, 1977b; Larsen, 1972; Mark and Requist, 1969a; Ritzma and Kaliser, 1977; Ryer, 1977; Scott, 1977; Scott and Taylor, 1977; Trexler and Moore, 1972.

Roaring Creek Syncline—Bergh and Snoke, 1992.

Roaring Springs Fault—Cepeda, 1994.
Roberts Mountains—Camilleri, 2000.
Rock Canyon Anticline—Eicher, 1977; Hurst and Steidtmann, 1986; Kauffman, 1977b;
Kauffman and others, 1977.
Rock Creek Fault—Hurst and Steidtmann, 1986.
Rock Creek Gold Belt—Woodward, 1993.
Rock Creek Subplate—Woodward, 1993.
Rock mechanics—Riecker, 1966.
Rock River Fault—Stone, 1966.
Rock Springs Formation— Kirschbaum 1986; Law and others, 1980.
Measured section—Kirschbaum 1986.
see also Mesaverde Group.
Rock Springs Uplift—Ahlbrandt, 1975; Flores, 1978; Hansen, 1984; Kirschbaum, 1986;
Kirschbaum and others, 1994; Laubach and others, 1993; Law and others, 1980;
Levey, 1992; Merewether, 1983.
Rockvale Sandstone Member—see Vermejo Formation.
Rocky Flats—Murray, 1967; Pearl, 1968.
Rocky Mountain Arsenal well—Bardwell, 1966; Evans, 1966; Hedge, 1967.
Rocky Mountain Association of Geologists—Kellogg, 1997.
Rocky Mountain erosion surface—Pearl, 1968.
Rocky Point Field—Gary and McGregor, 1968.
Rocky Ridge Sandstone Member—see Pierre Shale.
Rogers Breccia Reef—Downs and Bird, 1965.
Roland Coalbed—see Fort Union Formation—Tongue River Member.
Roll Front—Langen and Kidwell, 1974.
Rollins Sandstone Member—see Iles Formation.
Rose Dome—Grannell and Showalter, 1991; Paylor and others, 1989.
Rosebud Field—Dean, 1987.
Roubadeau Field—Silverman, 1988.
Rourke Gap Field—Schenk and others, 1993.
Royal Gorge Arch—Gerhard, 1968.
Rubio Peak Formation—Gornitz, 1982.
Ruby-Madison-Jefferson Uplift—Smith and Dorobek, 1989, Tysdal and others, 1989;
Verville and others, 1990.
Ruedi Anticline—Newton, 1964.
Ruedi Dam—Newton, 1964.
Rugby Field—Johnson, 1995.
Rusty Zone—see Pierre Shale.

Ryckman Creek Field—Nichols and Jacobson, 1982.
Saber Field—Griffith, 1965.
Sacagawea Till—Martin and others, 1992.
Sadler Ranch Formation—Schalla and Benedetto, 1991.
Sage Breaks Shale Member—see Carlile Shale.
Sage Creek Field/Anticline—Erslev, 1985, Spang and others, 1985; Stone, 1972.
Saint Louis Formation—Sonnenberg, 1985.
Salado-Cumbres Discontinuity—Brister and Chapin, 1994.
Salem Limestone—Foster and others, 1968.
Salt Creek Dome—Hares, 1988.
Salt Creek Field—Stone, 2006a.
Salt Grass Shale Member—see Pierre Shale.
Salt River estuary—Gerhard, 1978.
Salt solution—Garner, 1997.
Salt Wash Member—see Morrison Formation.
Salt—Hite, 1972; Raup, 1972.
San Andreas Fault Zone—Stone, 1970.
San Isabel Batholith—Noblett, 1987.
San Isabel Syncline—Sawatzky, 1964.
San Jose Formation—Brister and Chapin, 1994; Siems, 1964.
San Juan Dome—Baars and Stevenson, 1984, Gries, 1985.
San Juan Volcanic Field—Bird, 1972.
San Lucas Anticlinorium—Johnson and others, 1991.
San Lucas Formation—Johnson and others, 1991, 1992; Monod and others, 1992.
San Luis Facies—see Hermosa Group.
San Luis Uplift—Baars and Stevenson, 1984; Brister and Chapin, 1994.
Sand Dunes—Ahlbrandt, 1975; Ahlbrandt and others, 1994; Johnson, 1968; Tanner, 1996; Walker and Harms, 1972.
Sandia Formation—Baars and Stevenson, 1984; D’Lugosz and Cebull, 1972.
Sangre de Cristo Formation—Gries, 1985; Munger, 1965a.
Sandstone Dike—Dockal, 2005.
Sanish Pool—Schmoker, 1996.
Santa Fe Group—Izett and Obradovich, 2001.
Santa Margarita Formation—Hite, 1978.
Santa Maria Fault—Lozano, 1967.
Sapphire Thrust Plate—Woodward, 1993.
Sappington Sandstone Member—see Three Forks Formation.

Satanka Formation—Sonnenberg, 1984.

Sawatch Anticlinorium—Boardman, 1976.

Sawatch Quartzite—Anderson, 1970; Blanton, 1975; Bridges and McCarthy, 1990, Bush and Bush, 1974; Chronic, 1964; Grose, 1972; Matthews, 1986a.

Measured section—Bush and Bush, 1974.

Sawatch Uplift—Brister and Chapin, 1994; DeVoto and Maslyn, 1977; Nuccio and others, 1989.

Sawtooth Formation—see Ellis Group.

Saylor Creek Fault—Bergh and Snoke, 1992.

Scallion subinterval—see Bottineau Interval.

School Creek Field—Mitchell and Rogers, 1993.

Schoolhouse Tongue—see Weber Sandstone.

Schroekingerite—Bailey, 1972.

Schwartzwalder Mine—Downs and Bird, 1965; Wallace, 1988.

Scott's Bluff High—Silverman, 1988.

Sea level fluctuations—Archuleta and others, 2006; Isaacson and others, 2007; Kauffman, 1977a; Hamlin, 1996.

Second Creek Field—Slatt and others, 1995.

Secondary Recovery—Emmett and others, 1972.

Sedimentology—Bernier and Chan, 2006; Murray and others, 1968; Sivils and Johnson, 2000.

Sego Sandstone Member—see Iles Formation.

Seismic Survey—Ahlbrandt and Groen, 1987, Clarey, 1990; Davis, 1995, 2005; Estes-Jackson and others, 2000; Garner, 1997; Higley and others, 2005; Johnson, 1988, 1995; Locke, 1987; Loudon and others, 2000; Natali and others, 2000; Parker and Ray, 2001; Paylor and others, 1989; Pekarek, 1988; Slatt and others, 1995; Stone, 1983, 1984a, 1984b, 1987; Warner, 2000; Veal and others, 1988.

Seligman Member—see Toroweap Formation.

Seminole-Shirley Syncline—Bergh and Snoke, 1992.

Sentinel Butte Member—see Fort Union Formation.

Sentinel Mountain-Bay State Dolomite—Schalla and Benedetto, 1991.

Sequence Stratigraphy—Ahlbrandt and Fox, 1997; Bartos, 2009; Bohacs and others, 2007; Dubiel, 2007; Dubois, 1996; Graham and Ethridge, 1995; Hamlin, 1996; Mulholland, 1994; Mulholland and Kuryvial, 1992; Olsen, 1995; Pedersen and Steel, 1999; Petty, 2003; Schenk and others, 1993; Slatt and others, 1995.

Servilleta Formation—Gornitz, 1982.

Sevier Fault Zone—Witkind and Page, 1984.

Sevier Orogenic Belt—Jansma and Mattioli, 1994; Malone and Suttner, 1992; Mattox and Weiss, 1987; McDowell, 1988; Olsen, 1995.

Sevier Orogeny—Dyman and others, 1988; Eaton and others, 1990; Kauffman, 1977b; Matheny and Picard, 1995; Matthews, 1988; Merewether, 1983; Paylor and others, 1989; Ryer, 1977; Witkind, 1992.

Shannon Sandstone Member—see Pierre Shale.

Sharks Teeth—Cicimurri, 2000.

Sharon Springs Member—see Pierre Shale.

Shaunavon Formation—Dolson and others, 1993; Nolte, 1967.

Shear Strength—Riecker, 1966.

Shear Zones—Stone, 1969, 1970.

Shedhorn Sandstone—Sheldon, 1967.

Sheep Creek Thrust—Gudim, 1966.

Sheep Pass Formation—Veal and others, 1988.

Sheep Ridge Anticline—Blundell and Marrs, 1991.

Shell Creek Field—Weber, 1971.

Shell Creek Formation—Mitchell and Rogers, 1993.

Sheridan Arch—Schmude, 2000.

Sherman Granite—Braddock and Peterman, 1989; Eggler, 1967.

Sherman Surface—Collins and Collins, 1984.

Shinarump Member—see Chinle Formation.

Shirley Fault—Bergh and Snoke, 1992; Blackstone, 1994.

Shotgun Butte Syncline—Hogle and Jones, 1991.

Shotgun Member—see Fort Union Formation.

Silo Field—Longman and others, 1998; Mitchell and Rogers, 1993; Sonnenberg and Weimer, 1993.

Silt Coal Unit—see Williams Fork Formation.

Silver Plume Granite (Quartz Monzonite)—Braddock and Peterman, 1989; Eggler, 1967; Lester, 1993; Murray, 1975; Wobus and Hodge, 1982.

Silverton Graben—Weimer, 1982.

Simons Ranch Anticline—Schenk and others, 1993.

Simonson Dolomite—Camilleri, 1992; Pekarek, 1988, Schalla and Benedetto, 1991.

Sinagua Formation—Holm, 1987.

Sinagua Valley Graben—Holm, 1987.

Sinbad Limestone Member—see Moenkopi Formation.

Sinkholes—Cepeda, 1994.

Six Mile Creek Formation—Basu and others, 1998.

Sixmile Canyon Formation—see Indianola Group.

Skull Creek Formation (Shale)—see Dakota Group.

Slave Point Formation—Johnson, 1995.

Sleepy Hollow Field—Rogers, 1975.
 Sleepy Hollow Sandstone—Rogers, 1975.
 Slick Creek Anticline/Field—Coalson and Inden, 1990; Grannell and Showalter, 1991.
 Slickensides—Lindsey, 1998.
 Slocum Alluvium—Pearl, 1968.
 Slumps—Yeend, 1973.
 Smith coalbed—see Fort Union Formation, Tongue River Member.
 Smoky Hill (Shale/Chalk) Member—see Niobrara Formation.
 Snake River Downwarp—Tucker and Birdseye, 1989; Verville and others, 1990.
 Snaky Canyon Formation—Verville and others, 1990.
 Measured section—Verville and others, 1990.
 Snare Group—Broughton, 1973.
 Sneffels Horst—Baars and Stevenson, 1984; Weimer, 1982.
 Snowcrest Range—McDowell, 1998.
 Snowcrest-Greenhorn Fault System—Dyman and others, 1988; McDowell, 1998.
 Socorro Caldera—Gornitz, 1982.
 Soft Sediment Deformation—Harris, 1971.
 Soils—Alther, 1977; Baker, 1973; Huber and Grogger, 1985; Locke, 1987; Nettleton and Chadwick, 1991; Reheis, 1980; Reinking and Hoeksema, 1980; Stamm and others, 2004; Trimble, 1980.
 Solar energy—Pritchett, 1994.
 Songer Coal Unit—see Williams Fork Formation.
 Sorrento Field—Sonnenberg, 1985.
 Source rocks—Culbertson, 1964; Dolson and others, 1993; Donnell, 1965; Jarvie, 2001; Landon and others, 2001; Longman and others, 1998; Newman, 1965a; Pitman and others, 1972; Roberts and others, 2004; Schmoker, 1996; Sheldon, 1967; Sonnenberg and Weimer, 1993; Stone, 1994; Vredenburgh and Cheney, 1970; Williamson, 1965; Zarrela, 1966.
 Souris River Formation—see Manitoba Group.
 South Cole Creek Field—Moore, 1984.
 South Fork Coal Draw Fault—Paylor and others, 1989.
 South Fork Fault—Clarey, 1990.
 South Fork Sage Creek Fault—Bergh and Snoke, 1992.
 South Keg Coulee Field—Carlson, 1967.
 South Owl Creek Mountains Thrust Fault—Flemings and Nelson, 1991; Gillespie and Fox, 1991; Grannell and Showalter, 1991; Hogle and Jones, 1991.
 South Park Fault—Clement and Dolton, 1970; Ettinger, 1964; Sawatzky, 1964, 1972.
 South Park Formation—Kluth and Nelson, 1988.

South Pass Formation—Steidtmann and Middleton, 1986.
 South Piceance Creek Field—Snow, 1970.
 South Platte Formation—LeRoy, 1965.
 South Platte River—Pearl, 1971.
 South Platte Thrust Fault—Ettinger, 1964.
 South Quealy Fault—Blackstone, 1984, 1986; Stone, 1985.
 South Snowy Block—Montgomery and Gray, 1989.
 Sparks Fault—Weber, 1971.
 Spearfish Formation—Ahlbrandt and Fox, 1997; Gates and Rahn, 1986; Gerhard and Anderson, 1979.
 Measured section—Ahlbrandt and Fox, 1997.
 Spearhead Ranch Field—Winn and others, 1983.
 Speleology—Murray and others, 1968.
 Spergen Formation—Clair and Volk, 1968; Plant and others, 1971; Ramirez L., 1974; Sonnenberg, 1985; Stoddard, 1968.
 Spheroidal weathering—Martin and others, 1992.
 Spiculite—Rogers and others, 1995.
 Spivey-Grabs Field—Rogers and others, 1995.
 Split Rock Formation—Steidtmann and Middleton, 1986.
 Spread Creek Anticline—Blackstone, 1989.
 Spread Eagle Peak—Munger, 1965a.
 Spring Canyon Member—see Frontier Formation.
 Spring Creek Fault—Bergh and Snoke, 1992.
 Stagecoach Draw Field—Kovach and others, 2003.
 St. Charles Limestone—Salat and Steidtmann, 1991.
 St. Joseph Formation—Ramirez L., 1974.
 St. Louis Formation (Limestone)—Clair and Volk, 1968; Foster and others, 1968; Plant and others, 1971; Ramirez L., 1974; Stoddard, 1968.
 Measured section—Foster and others, 1968.
 St. Mary River Formation—Bibler and Schmitt, 1986.
 Stanaker Member—see Chinle Formation.
 Star Mountain Rhyolite—Gornitz, 1982.
 Star Point Formation—Eaton, 1990.
 Panther Sandstone Tongue—Frey and Howard, 1982.
 State Bridge Formation—Nuccio and others, 1989.
 Ste. Genevieve Formation—Clair and Volk, 1968; Foster and others, 1968; Ramirez L., 1974; Stoddard, 1968.
 Measured section—Foster and others, 1968.

Steele Shale—Blackstone, 1984, 1986.

Steinle Ranch Field—Mitchell and Rogers, 1993.

Stikine terrane—Malone and Suttner, 1992.

Stockade Beaver Shale Member—see Sundance Formation.

Stock—Corbett, 1966; Hansen, 1998; Harris and Wilbanks, 1966; Marsh and Smith, 1997; Nelson, 1971; Smith and Marsh, 1998.

Store Field—Stone, 1972.

Straight Cliffs Sandstone—Matheny and Picard, 1985; Trimble, 1980.
Drip Tank Member—Eaton, 1990.

Strathearn Formation—Jansma and Mattioli, 1994.

Stream Piracy—Ahlbrandt and Groen, 1987; Hansen, 1985; Pearl, 1971; Reinking and Hoeksema, 1980.

Stream Profile—Campbell, 1966.

Striped Mountain Pluton—Mueller and others, 1979.

Stromatolite—Osmond, 2000.

Structural Analysis—Ahlbrandt and Groen, 1987; Al-Raisi and others, 1996; Armstrong and Oriel, 1965; Axen, 1989; Baars and Stevenson, 1984; Beck, 1969; Bergh and Snoke, 1992; Blackstone, 1984, 1986, 1989, 1994; Blanton, 1975; Blundell and Marrs, 1991; Brister and Chapin, 1994; Brown, 1984; Calkin and others, 1972; Camilleri, 2000; Camilleri, 1992; Cepeda, 1994; Chapin and Epis, 1964; Chronic, 1964; Clarey, 1990; Clarey and others, 2004; Constenius, 1988; Corbett, 1966; Davis, 1985; Dean, 1988; DeVoto, 1964; D’Lugosz and Cebull, 1972; Dyman and others, 1988; Dyni, 1969; Elliott and others, 2003; Emmendorfer, 1989; Erslev, 1985; Ettinger, 1964; Garner, 1997; Gay, 1999; Geiser and others, 1988; Gerhard and Wahlstedt, 1965; Gornitz, 1982; Grannell and Showalter, 1991; Gries, 1981; Grose, 1972; Gudim, 1966; Hansen, 1984; Harms, 1964; Harris, 1971; Hennings and Spang, 1987; Hogle and Jones, 1991; Holm, 1987; Hoy and Ridgway, 1998; Hurst and Steidtmann, 1986; Jansma and Mattioli, 1994; Jansma and others, 1991; Johnson and others, 1991, 1992; Karig, 1964; Kittleson, 1992; Kluth and Nelson, 1988; Laubach and others, 1993; Leonard and Langford, 1994; Lewis and others, 1969; Lindsey, 1998; Lozano, 1967; MacLachlan and Kleinkopf, 1969; Malone and Suttner, 1992; Matthews, 1986a, 1986b, 1988, 1989, 2006; Matthews and Sherman, 1976; Mattox and Weiss, 1987; McDowell, 1998; Mitchell and Rogers, 1993; Monod and others, 1992; Munger, 1965a; Murray and others, 1968; Nelson, 1971; Nesse, 2006; Parker, 1966; Paylor and others, 1989; Pekarek, 2005; Perry, 1986; Pillmore, 1969; Robinson and Bamum, 1986; Royse, 1996; Salat and Steidtmann, 1991; Sanderson and Wiley, 1986; Sawatzky, 1964, 1972; Schavran, 1985; Shelton and Ross, 1971; Silverman, 1988; Smith, 1983; Sonnenberg, 1984, 1985, 1985; Spang and others, 1985; Sterne, 2006; Stone, 1983, 1984a, 1984b, 1985, 1987, 1997, 2002, 2004a, 2004b, 2005a, 2005b, 2006a, 2006b; Thomas and others, 1996; Trimble, 1964; Tucker and Birdseye, 1989; Veal and others, 1988; Wallace, 1988; Weber, 1971; Weimer, 1973, 1982;

Witkind, 1992; Witkind and Page, 1984; Wong and Humphrey, 1986; Woodward, 1986, 1993, 1997; Yacoub, 1965; Yin, 1991.

Structure-Controlled Drainage—Mitchell and Rogers, 1993.

Stump—Pruess Formation—Hurst and Steidtmann, 1986.

Stylolite—Sonnenberg and Weimer, 1993.

Sublette Anticline—Salat and Steidtmann, 1991.

Sublette Range Conglomerate—Salat and Steidtmann, 1991.

Success Field—Nolte, 1967.

Sugarloaf Field—Weber, 1971.

Sullivan Creek Fault—Bergh and Snoke, 1992.

Sullivan Spring Anticline—Bergh and Snoke, 1992.

Sullivan Spring Fault—Bergh and Snoke, 1992.

Sullivan Spring Syncline—Bergh and Snoke, 1992.

Sulphur Creek Member—see Mesaverde Group—Price River Formation.

Sulphur Creek Anticline—Dyini, 1969.

Summer Coon Volcanic Complex—Gries, 1985.

Summerville Formation—Gries, 1985.

Sumner Group—Rascoe, 1968.

Sun River Dolomite—see Madison Group.

Sunburst Sandstone Member—see Kootenai Formation.

Sundance Formation—Ahlbrandt and Fox, 1997; Blackstone, 1984; Clarey, 1990; Gries, 1981; Hares, 1988; Paylor and others, 1989; Schmude, 2000; Stone, 1966.
Canyon Springs Formation—Ahlbrandt and Groen, 1987; Schmude, 2000.
Measured section—Ahlbrandt and Fox, 1997.
Stockade Beaver Shale—Ahlbrandt and Groen, 1987.

Supai Formation—Stanescio, 1991.

Sutter City Gas Field—Gries, 1985.

Swan Peak Quartzite—Allison, 1966; Salat and Steidtmann, 1991.

Swash Marks—Tanner, 1996.

Swearingen Field—Sahl and others, 1993.

Sweetgrass Arch/Uplift—Bergh and Snoke, 1992; Curtis, 1994; Dolson and others, 1993.

Sweetwater Uplift—Merewether, 1983.

Swift Formation—see Ellis Group.

Sybille Lineament—Ahlbrandt and Groen, 1987.

Synarmocrinus cobbani—Itano and Bateman, 2001.

Synorogenic Sediments—Brister and Chapin, 1994; Hoy and Ridgway, 1998; Lindsey, 1998.

Taft Hill Member—see Blackleaf Formation.

Talamantes Fault—Weber, 1971.

Tallahassee Creek basin—Malan, 1969.

Tallahassee Creek Conglomerate—Dickinson, 1981.

Tapicitos Member—see San Jose Formation.

Tappan Basalt—Holm, 1987.

Tar sand—Ritzma, 1965.

Tarantula Mesa Sandstone—Eaton, 1990.

Taylor Creek Rhyolite—M'Gonigle and others, 1995.
Absolute age—M'Gonigle and others, 1995.

Teapot Sandstone—see Mesaverde Formation.

Tectonism—Alther, 1977; Bergh and Snoke, 1992; Breyer, 1983; Brister and Chapin, 1994; Catanzaro, 1967; Clarey, 1990; Clarey and others, 2004; DeVoto, 1965; Eaton and others, 1990; Egglar, 1967; Gornitz, 1982; Hagner, 1967; Ham, 1964; Harms, 1964; Hogle and Jones, 1991; Hoy and Ridgway, 1998; Hurst and Steidtmann, 1986; Johnson and others, 1991; Karig, 1964; Kauffman, 1977a, 1977b; Klugman, 1967; Lindsey, 1998; Malone and Suttner, 1992; Martin and others, 1992; Matthews, 1986a, 1986b; Mattox and Weiss, 1987; McDowell, 1988, 1998; Paylor and others, 1989; Pickering and Indelicato, 1985; Rogers, 1975; Salat and Steidtmann, 1991; Sanderson and Wiley, 1986; Sawatzky, 1964; Shawe and others, 2008; Silverman, 1988; Stone, 1969, 1970, 1987, 1997, 2002, 2004a; Tanner, 1971; Trimble, 1964, 1980; Tucker and Birdseye, 1989; Weimer, 1982, 1983; Weimer and Land, 1972; Wong and Humphrey, 1986; Woodward, 1986, 1997; Yin, 1991.

Teepee Trail Formation—Stucky and Krishtalka, 1991.

Temperature, subsurface—Cronoble, 1969.

Tendoy Thrust sheet—Dyman and others, 1988; McDowell, 1998; Verville and others, 1990.

Tensleep Fault—Coalson and Inden, 1990; Grannell and Showalter, 1991; Stone, 1969.

Tensleep Sandstone (Formation)—Amsbury, 1967; Blackstone, 1989, 1994; Bergh and Snoke, 1992; Emmett and others, 1972; Estes-Jackson and others, 2000; Fryberger, 1979; Gries, 1981; Hares, 1988; Martin and others, 1992; Paylor and others, 1989; Stone, 1966, 1972; Vredenburgh and Cheney, 1970.

Tepee Buttes—Gerhard, 1978; Kauffman and others, 1977.

Tepee Zone—see Pierre Shale.

Terry Sandstone—Al-Raisi and others, 1996.

Tesuque Formation—Izett and Obradovich, 2001; Siems, 1964.

Tewa Group—Gornitz, 1982.

Thaynes Limestone (Formation)—Hurst and Steidtmann, 1986; Paull and Paull, 1998; Ritzma and Kaliser, 1977.

Thermal Conductivity—Cronoble, 1969.

Thermopolis Anticline—Grannell and Showalter, 1991; Lang, Frerichs and others, 1991; Paylor and others, 1989.

Thermopolis Fault Zone—Paylor and others, 1989.

Thermopolis Shale—Hares, 1988; Tysdal and others, 1989; Young, 1970.

Theses and Dissertations on Geology

- Alaska*—Kirk and others, 1984.
- Colorado*—Kirk and others, 1981b; Murray and others, 1968.
- Hawaii*—Kirk and others, 1983b.
- Idaho*—Hansen and others, 1980c.
- Montana*—Kirk and others, 1981a.
- Nevada*—Kirk and others, 1982.
- New Mexico*—Kirk and others, 1983a.
- North Dakota*—Hansen and others, 1980c.
- Utah*—Hansen and others, 1980b.
- Wyoming*—Hansen and others, 1980a.

Third Creek Field—Reinert and Davies, 1976.

Thirtynine Mile Andesite—Dickinson, 1981.

Thirtynine Mile Volcanics—Calkin and others, 1972; Lozano, 1967; Malan, 1969.

Thorson trace fossil site—Fischer, 1978.

Three Forks Formation—Gerhard and Anderson, 1979; Hares, 1988; Hayes, 1985; Thomas and others, 1996; Smith and Dorobek, 1989.

- Measured section*—Smith and Dorobek, 1989.

Thunder Creek Field—Mitchell and Rogers, 1993.

Tidwell Member—see Morrison Formation.

Tilzapotla Rhyolite—Jansma and others, 1991.

Tipton Shale Member—see Green River Formation.

Tipton Tongue—see Green River Formation.

Toadlena Anticline—Masters, 2000.

Tobacco Root Batholith—Dyman and others, 1988.

Tobacco Root Fault—Thomas and others, 1996.

Tocito Sandstone—Longman and others, 1998.

Todilto Formation—Gries, 1985; Tanner, 1970, 1972; Stapor, 1972.

Todilto Lake—Tanner, 1968, 1970.

Togo Mine—Taylor and Bornhorst, 1998.

Tomera Formation—Jansma and Mattioli, 1994.

Tongue River Member—see Fort Union Formation

Tooele Arch—McDowell, 1988.

Torchlight Field—Stone, 2004a.

Torchlight Sandstone Member—see Frontier Formation.

Toroweap Formation—Sorauf and Billingsley, 1991.
Measured section—Sorauf and Billingsley, 1991.

Torrey Member—see Moenkopi Formation.

Tosi Chert Member—see Park City Formation.

Trace Fossils—see Paleontology.

Trail Creek Granite—Egglar, 1967.

Trans Challis Fault System—Woodward, 1993.

Transcontinental Arch—Sahl and others, 1993; Silverman, 1988; Sonnenberg and Weimer, 1993.

Transverse Ranges—Stone, 1970.

Trap Spring Field—Flanigan, 1988; Mansholt, 1983; Veal and others, 1988.

Traps
Stratigraphic—Coalson and Inden, 1990; Dolson and others, 1993; Flanigan, 1988; Fryberger, 1979; Kiteley, 1976; Lin, 1981; Mitchell, 1976; Mitchell and Rogers, 1993; Moore, 1975, 1983, 1984; Robertson, 1984; Rogers, 1975; Seeling, 1978; Silverman, 1988; Sonnenberg, 1982.
Structural—Dolson and others, 1993; Flanigan, 1988; Laubach and others, 1993; Mitchell and Rogers, 1993; Silverman, 1988; Sonnenberg, 1982, 1984; Stone, 1994; Veal and others, 1988.

Treasure Mountain Dome Llacolith—Everett and Hoisch, 2008.

Trend surface analysis—Hammuda, 1974.

Tres Piedras Granite—Wobus and Hedge, 1982.

Trident Member—see Three Forks Formation.

Trinidad Sandstone—Flores and Tur, 1982; Lindsey, 1998; Matuszczak, 1969; Pillmore, 1969; Woodward, 1997.

Tripod Thrust Fault—Blackstone, 1989.

Tripoli (tripolitic chert)—Rogers and others, 1995.

Troublesome Formation—Izett and Obradovich, 2001.

Trout Creek Sandstone Member—see Iles Formation.

Trump Formation—Chapin and Epis, 1964; DeVoto, 1964.

Tucumcari Formation—Scott and Taylor, 1977.

Tulloch Member—see Fort Union Formation.

Tunp (Conglomerate) Member—see Wasatch Formation.

Tunp Thrust Fault—Hurst and Steidtmann, 1986.

Tununk Shale Member—see Mancos Shale.

Turner Sandy/Sandstone Member—see Carlile Shale; Cody Shale.

Turtlehead Mountain Fault—Matthews, 1989.
 Tusas Mountain Granite—Wobus and Hedge, 1982.
 Twin Creek Limestone—Geiser and others, 1988; Hurst and Steidtmann, 1986; Ritzma and Kaliser, 1977; Salat and Steidtmann, 1991.
 Twin Mountain Fault Zone—Gerhard, 1968.
 Twist Gulch Formation—Mattox and Weiss, 1987; Witkind, 1992.
 Two Medicine Formation—Bibler and Schmitt, 1986.
 Tyler Formation—Carlson, 1967; Gerhard and Anderson, 1979; Johnson, 1995; Swetland and others, 1978.
 Type Sections—Foster and others, 1968.
 Uinta Anticline—Hansen, 1984.
 Uinta Fault—Hansen, 1984; Sanderson and Wiley, 1986; Weber, 1971.
 Uinta Formation—Chatfield, 1965; Smuin, 1990.
 Uinta Mountain Group—Gries, 1981; Hansen, 1984; Matthews, 1986a.
 Hades Pass Formation—Sanderson, 1984.
 Jesse Ewing Canyon Formation—Sanderson and Wiley, 1986.
 Measured section—Sanderson, 1984; Sanderson and Wiley, 1986.
 Moosehorn Lake Formation—Sanderson, 1984.
 Mount Watson Formation—Sanderson, 1984; Sanderson and Wiley, 1986.
 Red Castle Formation—Sanderson, 1984; Sanderson and Wiley, 1986.
 Red Pine Shale—Sanderson, 1984; Sanderson and Wiley, 1986.
 Uncompahgre Formation—Baars and Stevenson, 1984.
 Uncompahgre Highland/Uplift—Baars and Stevenson, 1984; DeVoto, 1965; Mack, 1977; Mack and Miller, 1980; Mallory, 1966; Nuccio and others, 1989; Ochs and Chan, 1990; Tubbs, 1989; Weimer, 1982; Wong and Humphrey, 1986.
 Unconformity—see Erosion surface.
 Union Pass Surface—Martin and others, 1992.
 Universities—Kent, 1973.
 University of Colorado—Murray and others, 1968.
 Upper Sandstone Member—Robertson and O’Sullivan, 2001.
 Upton Sandstone Member—see Frontier Formation.
 Uranium—Bailey, 1972; Brookins, 1982; Chenoweth, 1978; Childers, 1974; De Voto and Larsen, 1972; Dickinson, 1981; Downs and Bird, 1965; Harshman, 1972a, 1972b; Huntoon, 1996; Jurie and Gerhard, 1969; Langen and Kidwell, 1974; Larsen, 1972; Malan, 1969; Rackley, 1972; Reade, 1976; Segal and others, 1986.
 Uravan Mineral Belt—Chenoweth, 1978.
 Urban planning—Mohorich, 1971.
 Ute Pass Dolomite—Grose, 1972.

Ute Pass Fault—Blanton, 1975; Grose, 1972.

Uteland Butte zone—see Wasatch Formation.

Vadito Formation—Baars and Stevenson, 1984; Gresens and Stensrud, 1974.

Vallejo Formation—Siems, 1964.

Valles Caldera—Gornitz, 1982.

Valley Mountains Monocline—Witkind, 1992; Witkind and Page, 1984.

Vanguard Formation—Nolte, 1967.

Vaughn Member—see Mowry Shale, Blackleaf Formation.

Vent fauna—Longman, 1996.

Verde pool—Penttila, 1964.

Verdos Alluvium—Pearl, 1968.

Verendrye Member—see Pierre Shale.

Vermejo Formation—Clarke, 1965; Flores and Tur, 1982; Lindsey, 1998; Pillmore, 1969; Woodward, 1997.

Vermilion River Formation—Weimer, 1982.

Vessels Field—Silverman, 1988.

Viola Group—Rogers and others, 1995.

Virden Field—Johnson, 1995.

Virden subinterval—see Bottineau Interval.

Virgin Limestone Member—see Moenkopi Formation.

Virginia Dale Ring-Dike Complex—Eggler, 1967.

Vishnu Fault—Cepeda, 1994.

Vitrinite Reflectance—Tyler and others, 1997.

Volcanism—Brister and Chapin, 1994; Chapin and Epis, 1964; Corbett, 1966; Dallegge, 2008; De Voto, 1972; Dickinson, 1981; Dyman and others, 1988; Gornitz, 1982; Gresens and Stensrud, 1974; Gries, 1985; Holm, 1987; Kauffman, 1977a, 1977b; Luft, 1985; Mansholt, 1983; Murray, 1975; Nusbaum and Grant, 1987; Trimble, 1980; Tucker and Birdseye, 1989.

Volcano Valley Fault—Woodward and Bell, 1995.

Wabaunsee Group—Kaplan and others, 1983.

Wagon Bed Formation—Stucky and Krishtalka, 1991.

Wagontongue Formation—Chapin and Epis, 1964; DeVoto, 1964.

Wah Wah Springs Tuff Member—see Needle Range Formation.

Wahweap Formation—Eaton, 1990.

Wall Creek (Sandstone) Member—see Frontier Formation.

Wall Mountain Tuff—see White River Group.

Wallace Creek Tongue—see Mesaverde Formation.

Wallace Formation—see Belt Supergroup.

Waltman Arch—Natali and others, 2000.

Waltman Shale Member—see Fort Union Formation.

Wamsutter Field—see McClain and Norris, 2006.

Wanakah Formation—Bartleson and Jensen, 1988.

Wanship Formation—Ritzma and Kaliser, 1977.

Wapiabi Formation—Weimer, 1982.

Wapiti Formation—Rhodes and others, 2007.

Warm Springs Dome—Paylor and others, 1989.

Warsaw Formation (Limestone)—Clair and Volk, 1968; Foster and others, 1968; Plant and others, 1971; Ramirez L., 1974; Stoddard, 1968.

Wasatch Fault—Mattox and Weiss, 1987; Ritzma and Kaliser, 1977.

Wasatch Formation—Bohacs and others, 2007 (WHICH ONE??); Chatfield, 1965; Childers, 1974; Collins, 1971; Hansen, 1984, 1985; Hares, 1988; Kirschbaum and others, 1994; Krummel, 1973; Langen and Kidwell, 1974; Millison, 1965; Mitchell and Rogers, 1993; Schmoker and others, 1996; Smuin, 1990; Snow, 1970; Weber, 1971.

Bullpen Member—Hurst and Steidtmann, 1986.

Cathedral Bluffs Tongue—Steidtmann and Middleton, 1986.

Kinsbury Member—Merin and Lindholm, 1986.

Moncrief Member—Merin and Lindholm, 1986.

Tunp Member—Hurst and Steidtmann, 1986; Salat and Steidtmann, 1991.

Wasatch Monocline—Witkind, 1992; Witkind and Page, 1984.

Washakie Uplift—Hansley and Brown, 1993.

Waste Disposal—Colorado Oil and Gas Conservation Commission, 1971; Scopel, 1964.

Water Injection—Bardwell, 1966; Evans, 1966.

Wattenberg Field—Birmingham, 2006; Davis, 1985; MacKenzie, 1971; Matuszcak, 1973.

Wattenberg High—Davis, 1985.

Waulsortian mound—Johnson, 1995; Longman, 1996.

Weathering—Netoff, 1971.

Webb Canyon Gneiss—Zartman and Reed, 1998.

Webb Formation—Jansma and Mattioli, 1994.

Weber Sandstone (Formation)—Fryberger, 1979; Gries, 1981; Lauman, 1966; Nelson, 2007.

Measured section—Fryberger, 1979.

Schoolhouse Tongue—Nuccio and others, 1989.

Weimer Marker Bentonite—Pasternack, 2005.

Weimerfest—Henderson, 2005; Sonnenberg, 2005.

Well Draw Field—Mitchell and Rogers, 1993.

Wellington Field—MacKenzie, 1971.

Wells Formation—Hurst and Steidtmann, 1986.

Wentz-Zeisman Thrust-Fold—Stone, 1987.

Weskan Shale Member—see Pierre Shale.

West Elk Uplift—Bridges and McCarthy, 1990.

West Gunnison Monocline—Mattox and Weiss, 1987; Witkind, 1992.

West Hills Monocline—Witkind, 1992.

West Ivadell Field—Johnson, 1995.

West Kaibab Monocline—Cepeda, 1994.

West McCoy Gulch Pluton—Noblett, 1987.

West Mellot Field—Schenk and others, 1993; Schmoker and Schenk, 1988.

West Side Canal Field—Parker and Bortz, 2001.

West Willow Creek Field—Osmond, 2000.

Western Interior seaway—Kauffman and others, 1969, 1977a; Longman and others, 1998; Weimer and Land, 1972a.

Weston Fault—Chronic, 1964; Ettinger, 1964.

Westwater Canyon Member—see Morrison Formation.

Wet Mountain Thrust—Gerhard, 1968; Lewis and others, 1969.

Wet Mountain Valley—Malan, 1969.

Wet Mountains Uplift—Rascoe, 1968.

Weyburn Field—Davis, 2005.

Whalen/Wheatland Fault System—Ahlbrandt and Groen, 1987; Silverman, 1988.

White House Member—see De Chelly Sandstone.

White Rim Sandstone Member—see Cutler Formation.

White River Formation/Group—Childers, 1974; McCallum, 1968; Reade, 1976; Steidtmann and Middleton, 1986.

Brule Formation—Ahlbrandt and Groen, 1987; Trimble, 1980.

Castle Rock Conglomerate—Crifasi, 1992; Trimble, 1980.

Chadron Formation—Trimble, 1980; Steidtmann and Middleton, 1986.

Wall Mountain Tuff—Dickinson, 1981; Leonard and Langford, 1994; Reinking and Hoeksema, 1980; Trimble, 1980.

White River surface—McCallum, 1968.

White River Uplift—Bridges and McCarthy, 1990; Gries, 1981; Nuccio and others, 1989.

White Sands National Monument—Ahlbrandt and others, 1994.

Whitehorn Stock—Harris and Wilbanks, 1966.

Whitewater Lake subinterval—see Bottineau Interval.

Whitewood Dolomite—Merin and Lindholm, 1986.

Wichita Uplift—Rascoe, 1968.

Wild Cow Formation—Stone, 1997.

Wilkins Peak Member—see Green River Formation

Williams Canyon Formation (Limestone)—Baars and Campbell, 1968; Bridges and McCarthy, 1990; Gerhard, 1968; Gerhard and Wahlstedt, 1965; Grose, 1972; Ramirez L., 1974.

Measured section—Ramirez L., 1974.

Williams Fork Formation—Cole and Cumella, 2005; Lauman, 1966; Madden, 1985.

Willow Creek Fault Zone—Graham and Suttner, 1974; Malone and Suttner, 1992; Thomas and others, 1996; Woodward, 1993.

Willow Fault—Clarey, 1990.

Willwood Formation—Clarey, 1990; Kraus and Wells, 1999.

Wilson Cliffs Thrust Fault—Axen, 1989; Matthews, 1989.

Wilson Creek Field—Stone, 1994.

Wind energy—Pritchett, 1994.

Wind regime—Ahlbrandt and others, 1994; Pritchett, 1994.

Wind River Fault—Steidtmann and Middleton, 1986.

Wind River Formation—Childers, 1974; Flemings and Nelson, 1991; Gillespie and Fox, 1991; Harshman, 1972b; Hogle and Jones, 1991; Martin and others, 1992; Rackley, 1972; Stucky and Krishtalka, 1991.

Windy Peak Granite—Huber and Grogger, 1985.

Wingate Formation (Sandstone)—Dubiel and others, 1989; Robertson and O’Sullivan, 2001; Segal and others, 1986.

Winnipeg Group—Gerhard and Anderson, 1979.

Winnipegosis Formation—Gerhard and Anderson, 1979.

Wolsey Shale (Formation)—Graham and Suttner, 1974; Thomas and others, 1996; Woodward and Bell, 1995.

Wood Canyon Formation—Foster, 1994.

Woods Ranch Member—see Toroweap Formation.

Woodside Formation (Shale)—Paull and Paull, 1998; Ritzma and Kaliser, 1977.

Worland Anticline—Coalson and Inden, 1990.

Worland Fault—Coalson and Inden, 1990.

Worm Creek Quartzite—Hurst and Steidtmann, 1986.

Wrench faults—Stone, 1969, 1970; Weber, 1971.

Wright Creek Field—Stone, 1972.

Wykert Sandstone—see Council Grove Group.

Wyoming Lineament—Blackstone, 1994.

X-ray Diffraction—LeRoy, 1965.

Yampa Fault—Hansen, 1984.
Yellow Creek Field—Geiser and others, 1988.
Yellowjacket Formation—Tucker and Birdseye, 1989.
Yellowstone Park Uplift—Smith and Dorobek, 1989.
Yeso Formation—Mack and Dinterman, 2002.
Yule Marble—Everett and Hoisch, 2008.
Zabriskie Quartzite—Foster, 1994.
Zircon—Bailey, 1972; Basu and others, 1998; Catanzaro, 1967; Chen and Lubin, 1997;
Harris and Wilbanks, 1966.
Zuni-Defiance Uplift—Mallory, 1966.