

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

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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.

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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 2001, 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 Longman, Joy Rosen-Mioduchowski, Jeanette Dubois, and Kristine Peterson.

Part I—Author Index

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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.

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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.

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Gartra Member—see Chinle Formation.

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

Gem Park Complex—Armbrustmacher and others, 1979.

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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.

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Glen Bench Field—Longman and others, 2003.

Glen Eyrie Formation—Grose, 1972.

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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.

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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.

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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.

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Granite wash—Rogers, 1975.

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

Grants Mineral Belt—Brookins, 1982.

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

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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.

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- 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.
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- 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.
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- 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.

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

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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.

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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.

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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.

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Horse Canyon Field—Louden and others, 2000.
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Horse Springs Formation—Mansholt, 1983.
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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;
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 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.

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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; Beebe 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.