

# **A Digital Bibliography of Rocky Mountain Oil and Gas Fields**

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Introduction

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# **A Bibliography of Rocky Mountain Oil and Gas Fields**

## INTRODUCTION

Mark W. Longman

This digital version of RMAG's "**A Bibliography of Rocky Mountain Oil and Gas Fields**", which was originally published in 1999 as Volume 36, no. 3 of *The Mountain Geologist*, is updated through April 2001, partly to include field listings for abstracts presented at the 2001 AAPG Annual Convention. All relevant papers dealing with Rocky Mountain oil and gas fields published since 1999 in journals such as the AAPG Bulletin, The Mountain Geologist, and the GSA Bulletin are have also been added to the bibliography. Symposia and field conferences for the Rocky Mountain region that were published in the past three years have also been reviewed to compile an up-to-date list of references. In addition, all issues of the University of Wyoming's Earth Science Bulletin back to 1968 were reviewed by Donald S. Stone and field studies in those volumes are included here.

This Oil and Gas Fields Bibliography initially began to take shape when long-time RMAG member Mike Johnson needed to find references on Little Knife Field in North Dakota. During a search for information on the field, he came to recognize that many explorationists in the Rocky Mountain region could benefit from a comprehensive list of references that included information on any and all oil and gas fields in the area.

All the work for preparing this volume was done by the members of one of Denver's long-time informal Geologic Study Groups. Certain members of the group recognized that they could leave a legacy to the RMAG by compiling such a bibliography. Fortunately, both the RMAG Publications Committee and the RMAG Board of Directors wholeheartedly supported the idea for such a publication, and work was begun in mid-1998 to compile the references.

Not surprisingly, there is a wealth of published information on the oil and gas fields of the Rocky Mountain region. As shown in this compilation, more than 1700 papers have been published on these fields. These papers range from short abstracts to comprehensive field studies. Many decisions had to be made in preparing this bibliography as to which papers should be listed and which could be left out without hurting the overall content. The first screening technique was to include publications easily available to the average geologist such as those published by AAPG, RMAG, local geological associations, and so on. Most of these publications can be obtained from any major geology-oriented library in the Rocky Mountain region, and most are also available at the Denver Earth Resources Library (DERL) in downtown Denver, or the U.S. Geological Survey Library in Lakewood, Colorado.

The second major emphasis was to compile a list of especially detailed field studies and those overview papers that contained comprehensive reference lists. Abstracts that only mentioned a field by name, on the other hand, did not find space in this bibliography, and those abstracts that discussed specific fields in some detail were not included if the information was subsequently published as a complete paper. Only abstracts for the Rocky Mountain Section meetings that were published in the AAPG Bulletin were selectively searched for inclusion in this bibliography.

Two other problems were also encountered in compiling this bibliography. The first is that some field names have changed (or fields have merged) through time. Furthermore, industry and operators sometimes use slightly different names (e.g., Riverton vs. Riverton Dome Field in Wyoming). We have done our best to standardize names of the fields, but some inconsistencies have almost certainly slipped into this bibliography. The other problem is that many published papers dealing with stratigraphic, structural, diagenetic, or hydrocarbon source aspects of

particular fields for one reason or another fail to mention specific fields by name. The task of trying to correlate these papers with specific fields was a difficult one, so most of these papers are not included in this bibliography.

Despite the many problems, we hope we have compiled what will prove to be a useful and fairly complete listing of publications dealing with specific oil and gas fields in the Rocky Mountain region. To further aid the user, we have prepared a general introduction to the hydrocarbon production and reservoirs in each state in the study area. These introductions include a list of general references that may also prove useful to geologists and explorationists interested in understanding the broad aspects of the state's hydrocarbon reservoirs. While not intended to be comprehensive, these lists of general references provide a starting point for finding additional information on a state's oil and gas fields.

Those interested in the historical aspects of exploration in the Rocky Mountain region will find a wealth of information on many of the early major discoveries compiled in E.W. Owen's *"Trek of the Oil Finders: A History of the Exploration for Petroleum"* (1975, AAPG Memoir 6, e.g., p. 690-713). RMAG's 1972 "Big Red Book" entitled *"Geologic Atlas of the Rocky Mountain Region"* is another excellent resource for general information on the area's oil and gas resources.

#### AREA OF COVERAGE

The area selected for coverage in this bibliography extends from northern Arizona and New Mexico on the south to the Canadian border on the north. It includes the states of Arizona, Colorado, Montana, Nebraska (the western part only), Nevada, North Dakota, South Dakota, Utah, and Wyoming. Also included is northern New Mexico, particularly the San Juan Basin area.

#### FORMAT

This bibliography consists of two main parts as follows:

- 1) A listing of oil and gas fields arranged alphabetically by state followed by the authors that have published on those fields listed in reverse chronological order; and
- 2) A comprehensive bibliography of cited publications arranged by author and date with a cross-listing to fields discussed in each paper.

## CONTRIBUTORS AND PUBLICATIONS COVERED

Nine people were responsible for collecting and compiling the references included in this bibliography. Their names and the publications or geographic areas covered by each are listed below.

Donna S. Anderson	Wyoming and some Montana publications
Scott M. Clark	SPE Publications (field studies only)
Earl G. Griffith and Michael S. Johnson	Rocky Mountain Section, AAPG Abstracts
Michael L. Hendricks	North Dakota and Williston Basin Symposium volumes
Michael S. Johnson	AAPG Bulletins (1948-1998) and other selected AAPG Publications; some Montana publications, and Williston Basin Symposium volumes; <i>The Mountain Geologist</i> (v. 1 to 35)
Mark W. Longman	Colorado, Nevada, Northern New Mexico, South Dakota; SEPM Publications; Selected AAPG Memoirs; the AAPG Atlas of Oil and Gas Fields; post-1990 RMAG Symposia and Guidebooks including the RMAG/DGS 3-D Seismic Symposia
John C. Osmond	Utah and Arizona
John W. Robinson	Pre-1990 RMAG Symposia and Guidebooks
James P. Rogers	Western Nebraska
Donald S. Stone	Earth Science Bulletin

## ACKNOWLEDGMENTS

Information on the number of wells drilled in each state (included in the introductory write-up for each state) is from the special IPAA volume entitled "Oil and Gas Producing Industry in Your State," published as a supplement to *Hart's Oil and Gas World* (1998, v. 69, no. 10).

# A BIBLIOGRAPHY OF ROCKY MOUNTAIN OIL AND GAS FIELDS

(updated to April 23, 2001)

## Part 1: Field Listings

### ARIZONA

Through the end of 1997, a total of 495 wells had been drilled for oil and gas in Arizona. Of these, 49 wells (10%) produced oil and 39 (8%) produced gas. All of the oil and gas fields in Arizona are located in Apache County. The productive areas lie in the southern part of the Paradox Basin, close to the border with Utah, or in the western part of the San Juan Basin, close to the border with New Mexico. Dineh-Bi-Keyah is the largest field in Arizona and produces from an Oligocene igneous sill within black shales of the Pennsylvanian Hermosa Group. All of the other fields, which include Bita Peak, Black Rock, Boundary Butte, Dry Mesa, Teec Nos Pos, Toh Atin, Twin Falls Creek, and Walker Creek, are small with only one or two wells. Unfortunately, the only papers in the publications reviewed for this bibliography deal with Dineh-Bi-Keyah Field.

#### General Reference

Fassett, J.E., ed., 1978, Oil and Gas Fields of the Four Corners Area: Four Corners Geological Society, v. 1, 726 p.

**References to Specific Fields**Dineh-Bi-Keyah Masters, 2000; McKenny, 1969; Williams and Roth, 1969; McKenny and Masters, 1968

### COLORADO

Through the end of 1997, a total of 48,516 wells had been drilled for oil and gas in Colorado. Of these, 11,846 wells (24%) produced oil and 14,086 (29%) produced gas. Production can be thought of as occurring in all four corners of the state (Ambrose, 1998). This production is "wrapped around" a mountainous area of Precambrian igneous and metamorphic rocks in the center of the state where there is essentially no oil and gas production. To the north, the productive areas include the Sand Wash and Piceance Creek basins on the western side of the state (described in Amuedo and Mott, 1962; Murray, 1974; and Stone, 1986), and the northern Denver (aka D-J) Basin in the east (described in detail in Pruitt and Coffin, 1978). In the southern part of Colorado, production is found in the Paradox and San Juan basins to the southwest (see Fassett, 1978 and 1983; Weigand, 1981; Fassett et al, 1977; and Lucas et al., 1992), and the southern Denver Basin and Las Animas Arch area to the southeast (see Sonnenberg et al., 1990).

Probably the most comprehensive collection of papers on Colorado's oil and gas fields is the 1961 volume published by the RMAG entitled "Colorado-Nebraska Oil and Gas Field Volume" (Parker, 1961). Each field study presented in this volume contains a page or two of text accompanied by figures including a structure map and type log or cross-section. Production data for each field are also presented. Previously, in 1954, the RMAG had also published a collection of field studies on the Oil and Gas Fields of Colorado (Jensen et al., 1954). Together, these volumes contain relatively brief discussions of dozens of early discoveries in the state.

In 1982, the RMAG published an updated two-volume set entitled "Oil and Gas Fields of Colorado, Nebraska and Adjacent Areas" (Crouch, 1982). Each of the 143 field studies presented in this work contains a short text accompanied by a structure map and type log or cross-section. Production data for each field through 1980 are also presented. Although the majority of fields discussed are in the Denver Basin, coverage of the whole state is provided. Special emphasis in the volume was placed on the Douglas Creek Arch.

A useful source of information on Colorado's gas reservoirs is the Gas Research Institute project managed by Broadhead and Robertson (1993) entitled "Atlas of Major Rocky Mountain Gas Reservoirs," which covers the Piceance Basin, Denver Basin, and southeast part of the state. Another useful publication on Colorado's oil and gas fields was recently published by the Colorado Geological Survey (Ambrose, 1998). Consisting of four charts, one for each quadrant of the state, this publication summarizes data on producing horizons, cumulative production (through 1994), oil and gas shows, water injection zones, and so on for 116 fields scattered through each of the state's productive basins. Although geologic information on the producing horizons is minimal, this publication provides a good starting point for compiling data on a variety of oil and gas fields.

An RMAG publication with useful information on 18 of Colorado's oil fields is the collection on "Hydrocarbon Production from Low Contrast, Low Resistivity Reservoirs, Rocky Mountain and Mid-Continent Regions: Log Examples of

Subtle Pays" by Dolly and Mullarkey (1996). Fields discussed in the short papers in this volume include: Andy's Mesa, Cathedral, Flank, Hambert/Aristocrat, Hiawatha East, High Point, Lilli, Maudlin Gulch, Ne No She, Radar, Sorrento, Speaker North, Spindle, Trapper, and Wattenberg. Each example includes a brief write-up, a structure map, and a panel of wireline logs.

### **General Colorado References**

Ambrose, C.M.T., 1998, Penetration charts of selected Colorado oil and gas fields: Colorado Geological Survey, Resource Series #34, 3 p. plus 4 plates.

Amuedo, C.L., and M.R. Mott, eds., 1962, Exploration for Oil and Gas in Northwestern Colorado: RMAG, 192 p.

Broadhead, R.F., and J.M. Robertson, Project Managers, 1993, Atlas of Major Rocky Mountain Gas Reservoirs: New Mexico Bureau of Mines and Mineral Resources, 206 p.

Crouch, M.C., Chief Editor, 1982, Oil and Gas Fields of Colorado, Nebraska, and Adjacent Areas: RMAG, 791 p.

Dolly, E.D., and J.C. Mullarkey, eds., 1996, Hydrocarbon Production from Low Contrast, Low Resistivity Reservoirs, Rocky Mountain and Mid-Continent Regions: Log Examples of Subtle Pays: RMAG, 290 p.

Fassett, J.E., ed., 1978, Oil and Gas Fields of the Four Corners Area: Four Corners Geological Society, v. 1 and 2, 726 p.

Fassett, J.E., ed., 1983, Oil and Gas Fields of the Four Corners Area: Four Corners Geological Society, v. 3, 729-1143 p.

Fassett, J.E., H.L. James, and H.E. Hodgson, eds., 1977, San Juan Basin III, Twenty-eighth Annual Field Conference, New Mexico Geological Society, 307 p.

Jensen, F.S., H.H.R. Sharkey, and D.S. Turner, eds., 1954, The Oil and Gas Fields of Colorado: RMAG, 300 p.

Lucas, S.G., B.S. Kues, T.E. Williamson, and A.P. Hunt, eds., 1992, San Juan Basin IV, Forty-third Annual Field Conference, New Mexico Geological Society, 411 p.

Murray, D.K., ed., 1974, Guidebook to the Energy Resources of the Piceance Creek Basin: RMAG, 302 p.

Parker, J.M., ed., 1961, Colorado-Nebraska Oil and Gas Field Volume: RMAG, 389 p.

Pruitt, J.D., and P.E. Coffin, eds., 1978, Energy Resources of the Denver Basin: RMAG, 272 p.

Shurr, G.W., 2001 Basin-margin gas in the Rocky Mountains and adjacent Great Plains, in D.S. Anderson, J.W. Robinson, J.E. Estes-Jackson, and E.B. Coalson, eds., Gas in the Rockies: RMAG, p. 223-239.

Sonnenberg, S.A., L.T. Shannon, K. Rader, W.F. von Drehle, and G.W. Maring, eds., 1990, Morrow Sandstones of Southeast Colorado and Adjacent Areas: RMAG, 236 p.

Stone, D.S., ed., 1996, Geology of Northwestern Colorado: RMAG, 256 p.

Weigand, D.L., ed., 1981, Geology of the Paradox Basin, RMAG, 285 p.

### **References to Specific Colorado Fields**

Ace	Folsom, 1955
Adena	Holm, 1972; Mygdal, 1963; Weyler and Sayre, 1959; Murray, 1957
Ambush	Graham, 2000; Weimer et al., 1998
Antler	Clayton and Swetland, 1980
Arapahoe	Blakeney et al., 1990; Nolte, 1990; Wheeler et al., 1990
Arcabuz-Culebra	Wolhart et al., 2000
Aristocrat	see Hambert-Aristocrat
Arroyo	Graham, 2000
Badger Creek	MacQuown and Millikan, 1955

Banner Lakes	Weimer et al., 1998
Bar X	Krey, 1962; Quigley, 1960
Barker Dome	Picard et al., 1968
Barrel Springs	Sonnenberg and von Drehle, 1990; von Drehle, 1990; Wheeler et al., 1990
Baseline	Weimer et al., 1998
Battleship	Lange and Wellborn, 1985; Haverfield, 1970; Grote, 1957
Beall Creek	Graham, 2000
Bear Gulch	Weimer et al., 1998
Beecher Island	Lockridge and Pollastro, 1988; Brown et al., 1982; Lockridge, 1977
Beeson	Tasci et al., 1997
Bell Rock Dome	Wyeth, 1955a
Bennett	McGee et al., 1989
Bents Fork	Pustmueller, 1958
Berthoud	Ladd, 2001b; Longman et al., 1998; Pollastro, 1992; Scholle and Pollastro, 1985; MacKenzie, 1971
Bighole	Krummel, 1973
Bijou	Scobey, 1964
Bison	Graham, 2000
Black Hollow	Stone, 1991b; Moore, 1986; Stone, 1985e; Clayton and Swetland, 1980; Levandowski et al., 1973; Nering, 1963; McGinnis, 1955
Blanco	Keighin et al., 1993; Maldonado et al., 1983 (see also Blanco Field in New Mexico)
Bledsoe Ranch	Sonnenberg and von Drehle, 1990
Bonny	Lockridge and Pollastro, 1988
Boulder	Kittleson, 1992; Whitney, 1956
Boxer	Tobison, 1967, 1972
Brandon	Plant et al., 1971; Stoddart, 1968
Buck Peak	Vincelette and Foster, 1992; Cummings, 1959
Bugle	Weimer et al., 1998
Cache	Baars and Stevenson, 1982; Reid and Berghorn, 1981; Gray, 1967; Carter, 1966; Peterson, 1966
Campo	Caldwell, 1990
Canadian River	Haverfield, 1970; Saterdal, 1957
Center Pivot	Gackle et al., 2001
Channing	Wallace et al., 1990a
Chromo	Gries and Vandersluis, 1989
Clark Lake	MacKenzie, 1971
Cliff	Severy, 1959
Clifford	Nolte, 1990; Shannon, 1990
Colt	Pustmueller, 1958
Craig Dome	Tyler et al., 1997; Wyeth, 1955b
Craig North	Dolloff and Lancaster, 2001; Greer, 1959; Parker, 1959
Danforth Hills	Grace and Nelson, 1962; Turner, 1955
Deer Trail	Graham, 2000
DeNova	Lockridge and Pollastro, 1988
Divide Creek	Hoak and Klawitter, 1997; Grout et al., 1991; Johnson and Rice, 1990; Berry, 1959
Douglas Creek Arch	Johnson and Rice, 1990; Holland et al., 1984; Kellogg, 1977; Hoffman, 1957
Douglas Creek North	Tutten, 1959a
Elk Springs	MacMillan, 1986; Jensen, 1958; Hoffman, 1957; Fenex, 1955
Falcon	Chancellor, 1964
Flank	Bolyard, 1990; Caprara and Staley, 1990; Sonnenberg and von Drehle, 1990
Florence	Clayton and Swetland, 1980; Mallory, 1977; McCoy et al., 1951
Fort Collins	MacKenzie, 1971; Nering, 1963
Four Mile Creek	Foster, 1965; Parker, 1959
Frontera	Blakeney et al., 1990; Bowen et al., 1990b; Kozarek, 1990; Krystinik and DeJarnett, 1990; Shumard, 1991
Garcia	Woodward, 1997; Clair and Bradish, 1956a
Gardner	Woodward, 1997

Garmesa	Krey, 1962
Golden Spike	Canter and Coringrato, 1988; Ramirez, 1974
Gramps	Gries and Vandersluis, 1989
Grand Valley	Hoak and Klawitter, 1997; Reinecke et al., 1991
Grassy Creek	Livesey, 1985
Greeley	Guion and Hutson, 1985
Greenwood	Wingerter, 1968; Pustmueller, 1958
Grouse	Avis and Dickinson, 1990; Wheeler et al., 1990; Canter and Coringrato, 1988
Hambert-Aristocrat	Ladd, 2001a; Birmingham, 1998; Hoffman and Slatt, 1998; Van Kirk et al., 1998; Benson and Davis, 1997; Slatt et al., 1997; Davis, 1985
Harker Ranch	Wheeler et al., 1990
Hiawatha	Folsom, 1955; Gras, 1955a,b
Hiawatha West	Foster, 1965; Gras, 1955b
Horse Gulch	Morel et al., 1986
Hugo	Rall, 1996
Ignacio	Dolloff and Lancaster, 2001; Keighin et al., 1993
Iles Dome	Cummings and Pott, 1962; Nelson, 1955
Island Butte	Matheny and Longman, 1996
Ismay	Grammer et al., 1996; Peterson, 1966
Jace	Rall, 1996; Germinario et al., 1995; Adams, 1990; Sonnenberg and von Drehle, 1990
Jamboree	Ladd, 2001a; Weimer et al., 1998
Kachina	Higley, 1989; Higley and Schmoker, 1989; Nylund, 1978
Keota	Nering, 1963
Krauthead	Weimer et al., 1998
La Poudre	Ladd, 2001a
Ladder Creek	Canter and Coringrato, 1988; Ramirez, 1974
Lanyard	Gackle et al., 2001; Plybon and Oldham, 1985; Sonnenberg, 1982
Latham Bar	Al-Raisi et al., 1996
Latigo	Geyer, 1972
Lay Creek	Duffy, 1975; Turner, 1955
Left Hand	Sonnenberg and von Drehle, 1990
Little Beaver	Murray, 1957; Fentress, 1955; MacQuown and Millikan, 1955
Little Beaver North	Murray, 1957
Loma	Canter and Coringrato, 1988
Lone Pine	Chapin, 1983; Wellborn, 1977; Burton and Wellborn, 1974
Lonetree	Ethridge and Dolson, 1989; Dolson, 1983
Lookout	Wheeler et al., 1990
Lost Creek	Plybon and Oldham, 1985; Sonnenberg, 1982; Griffith, 1963
Loveland	Ladd, 2001a,b; Clayton and Swetland, 1980; MacKenzie, 1971; Nering, 1963
Lubers	Pustmueller, 1958
Mamm Creek	Craig et al., 2000; Esphahanian and Storhaug, 1997
Maria	Weimer et al., 1998
Maudlin Gulch	Stone, 1991a; Dodge and Bartleson, 1986; Richard, 1986; Grace and Nelson, 1962
Mayberry	Johnson et al., 1995
McCallum	Haverfield, 1970; Sims and Goth, 1953
McCallum North	Lange and Wellborn, 1985; Carpen, 1957
McCallum South	Haverfield, 1970
McIntyre Canyon	Parker, 1961
McClave	Pustmueller, 1958
Middlemist	MacQuown and Millikan, 1955
Midway	Caprara and Staley, 1990
Minto	Nolte, 1963
Model Dome	Clair and Bradish, 1956b
Moffat Dome	Cummings and Pott, 1962; Vieaux and Haymaker, 1955
Mt. Pearl	Bowen et al., 1990a, 1993; Krystinik and DeJarnett, 1990; Rader, 1990; Wheeler et al., 1990
Moore-Johnson	Adams, 1990
Neo Noshe	Wallace et al., 1990b; Wheeler et al., 1990



New Windsor	Ladd, 2001a; Stone, 1991b; Stone, 1985e; Levandowski et al., 1973; Nering, 1963; Rold, 1959
Oak Creek	Gillespie, 1962; Turner, 1955
Padroni West	Clayton, 1989; Goodier, 1963
Papoose Canyon	Matheny and Longman, 1996; Roylance, 1990; Baars and Stevenson, 1982
Parachute	Cumella, 2001; Hoak and Klawitter, 1997; Reinecke et al., 1991
Peoria	McGee et al., 1989; Meyer and McGee, 1985; Land and Weimer, 1978; Hegglund, 1973; Ecker, 1971
Piceance Creek	Johnson and Rice, 1990; Snow, 1970; Dyni, 1969; Ritzma, 1962
Piceance Creek South	Snow, 1970
Pierce	Rall and Loeffler, 1994; Stone, 1991b; Stone, 1985e; Sonnenberg, 1984; Levandowski et al., 1973; Nering, 1963
Pinnacle	Haskett, 1962
Plateau	Hoak and Klawitter, 1997
Plumb Bush Creek	Erickson et al., 1993
Poker Chip	Schowalter and Hess, 1982
Poncho	Ethridge and Dolson, 1989
Powder Wash	Collins, 1971; Millison, 1965; Folsom, 1955
Powell Park	Tutten, 1959b
Prairie Dog	Pustmueller, 1958
Radar	Weimer et al., 1998
Rangely	Ortega et al., 2001; Hild and Wackowski, 1998; Hughes et al., 1998; Narr, 1998; Friedman et al., 1997; Williams and Pitts, 1997; Fullbright et al., 1996; Masoner, 1996; Masoner et al., 1996; Robie et al., 1995; Wackowski and Masoner, 1994; Hefner and Barrow, 1992; Vincelette and Foster, 1992; Bowker and Shuler, 1991; Stone, 1991a; Jackson and Bowker, 1989; Fryberger, 1979, 1986; Fryberger and Koelmel, 1986; Koelmel, 1986; Mendeck, 1986; Stone, 1986c; Harding and Lowell, 1979; Graue and Zana, 1978; Larson, 1974, 1975; McMinn and Patton, 1962; Jensen, 1958; Hoffman, 1957; Campbell, 1955; Peterson, 1955
Rio Blanco Unit	Chancellor, 1977; Chancellor and Holmes, 1976; Alcock et al., 1974; Chancellor et al., 1974
Roggen	Sonnenberg, 1982; Dyni, 1969
Roggen Southwest	Griffith, 1963
Rulison	Cumella, 2001; Lynn et al., 1998; Hoak and Klawitter, 1997; Kuuskraa et al., 1996, 1997a,b; Reinecke et al., 1991; Duda and Hancock, 1989; Mercer and Frohne, 1986; Peterson, 1984; Reynolds et al., 1970
Saber	Griffith, 1965, 1966
San Arroyo	Quigley, 1960
Sand	Rall, 1996
Sand River	Murray, 1957
Second Creek	Weimer et al., 1998
Second Wind	Germinario et al., 1995; Bowen et al., 1990b
Shell Creek	Weber, 1971; Turner, 1955
Shire Gulch	Hoak and Klawitter, 1997
Siaana	Bowen et al., 1993; Sonnenberg et al., 1991
Singletree	Clayton and Swetland, 1980
Slater Dome	McCue, 1955; Turner, 1955
Sooner Unit	Montgomery, 1997d; Naylor, 1997; Besler and Singdahlsn, 1996; Sippel and Singdahlsn, 1995; Hayworth, 1991
Sorrento	Mark, 1998; Blott et al., 1997; Fausnaugh, 1996; Gallagher, 1996; Bowen et al., 1990a, 1993; Hartmann and Coalson, 1990; Nolte, 1990; Rader, 1990; Sonnenberg et al., 1990, 1991; Sonnenberg, 1985
Speaker	Wallace and Heinz, 1992
Spenson	Gackle et al., 2001
Spindle	Birmingham et al., 2001; Ladd, 2001a; Birmingham, 1998; Kittleson, 1992; Pittman, 1989; Porter, 1989; Porter and Weimer, 1982; Clayton and Swetland, 1980
Stateline	Bowen and Weimer, 1997; Krystinik and DeJarnett, 1997; Tillman et al., 1993; Blakeney et al., 1990
Stockholm	Moriarty, 1990
Stockholm NW	Moriarty, 1990

Stockholm SW	Tillman and Pittman, 1993; Avis and Dickinson, 1990; Bowen et al., 1990b
Sugarloaf	Weber, 1971; Foster, 1965; Gras, 1955
Tanner	Caldwell, 1990
Temple Canyon	Grace and Nelson, 1962; Clough, 1955
Third Creek	Weimer et al., 1998; Reinert and Davies, 1976
Thornburg	Cummings and Pott, 1962; Hurd, 1962; Jensen, 1958; Hoffman, 1957
Tow Creek	Vincelette and Foster, 1992; Harnett, 1968; Bass, 1955; Saterdal, 1955
Trapper	Weimer et al., 1998
Valencia Canyon	Murray and Schwochow, 1997
Wattenberg	Birmingham et al., 2001; Gackle et al., 2001; Hu and Simmons, 2001; Ladd, 2001a,b; Roberts and Fishman, 2000; Birmingham, 1998; Boone et al., 1998; Higley, 1989, 1998; Higley et al., 1997; Porter and Sonnenberg, 1994; Kittleson, 1992; Dolson et al., 1991; Higley and Schmoker, 1989; McGee et al., 1989; Weimer and Sonnenberg, 1989; Davis, 1985; Meyer and McGee, 1985; Weimer, 1983, 1984; Clayton and Swetland, 1980; Peterson and Janes, 1978; Fast et al., 1977; Matusczak, 1973, 1976; MacKenzie, 1971
Wellington	MacKenzie, 1971
West Side Canal	Foster, 1965
Westwater Creek	Quigley, 1960
White River Dome	Hoak and Klawitter, 1997; Helmke, 1955
Wig Wam	Gackle et al., 2001; Ladd, 2001a
Wild Horse	Wilson and Thomas, 1985
Williams Fork	Lauman, 1966
Wilson Creek	Stone, 1986a, 1990, 1991c, 1994; Dodge and Bartleson, 1986; Cummings and Pott, 1962; Grace and Nelson, 1962; Ladd, 1957
Winter Valley	MacMillan, 1986
Wolf Creek	Grout et al., 1991; Johnson and Rice, 1990
Yenter	Oleson, 1963
Young	Griffith, 1963
Zenith	Sonnenberg, 1987

## MONTANA

Montana encompasses several important hydrocarbon areas: the western part of the Williston Basin, the northern parts of the Powder River and Bighorn basins, the Tyler sandstone trend in the Bull Mountain Basin, the southern Alberta basin (Havre-Coulee area), and the Sweetgrass Arch (Cutbank-Kevin-Sunburst area). It also includes less prolific areas such as the Montana Thrust Belt. Most of the articles compiled in this index are from the Montana Geological Society (MGS, known as the Billings Geological Society [BGS] prior to 1967) guidebooks covering all parts of the state and from Wyoming Geological Association guidebooks featuring the Bighorn and Powder River basins. All articles cited in this bibliography were published since World War II, but several papers published in BGS guidebooks in the 1950s provide important reviews of early petroleum exploration and development in the state prior to the 1940s.

Through the end of 1997, there were 31,086 wells drilled for oil and gas in Montana. Of these, 11,133 (36%) produced oil and 5410 (17%) produced gas. For the oil and gas professional working in Montana, the 1985 two-volume set on Montana oil and gas fields (Oil and Gas Fields Committee, 1985) provides basic information on most fields in the state. Other important publications were published by the Montana Bureau of Mines and Geology and by the Yellowstone-Bighorn Research Association.

Information on 6 of Montana's oil fields is included in Dolly and Mullarkey (1996). Fields discussed in the short papers in this volume are Charlie Creek, Dwyer, Eagle, Spring Lake, Volt, and Wright Creek. Each includes a brief write-up, a structure map, and a panel of wireline logs.

For the geologist new to Montana useful references for learning about Montana geology include the 1978 MGS guidebook entitled "Williston Basin Symposium," Darrow (1956) on central Montana, and Branch (1966) on the Sweetgrass Arch. Other background references are also included in the General Montana Reference list provided below.

### General Montana References

Branch, J.L., 1966, General drilling history and new developments on the Sweetgrass Arch, 1955 to present: Billings Geological Society 17th Annual Field Conference Guidebook, p. 135-143.

Darrow, G., 1955, The history of oil exploration in northwestern Montana, 1892-1950. Billings Geological Society 6th Annual Field Conference Guidebook, p. 225-232.

Darrow, G., 1956, Oil Exploration History of Central Montana, 1915-1952: Billings Geological Society 7th Annual Field Conference Guidebook, p. 136-140.

Dolly, E.D., and J.C. Mullarkey, eds., 1996, Hydrocarbon Production from Low Contrast, Low Resistivity Reservoirs, Rocky Mountain and Mid-Continent Regions: Log Examples of Subtle Pays: RMAG, 290 p.

Johnson, R.C. and C.W. Keighin, 1998, Origins of natural gases from Upper Cretaceous reservoirs, Bighorn Basin, Wyoming and Montana, and comparison with gases from the Wind River Basin, Wyoming: Wyoming Geological Association 49th Guidebook, p. 233-249.

Montana Geological Society, 1969, State of Montana—Summary of producing fields: Montana Geological Society Symposium on the Economic Geology of Eastern Montana, p. 10-11.

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Ash Creek	see listing under Wyoming
Bainville North	Safley and Swinehart, 1997
Bannatyne	Pasternack, 1988; Shepard and Bartow, 1986; Gribi, 1959
Belfry	Johnson and Lindsley-Griffin, 1986
Bell Creek	Porter and Sonnenberg, 1994; Szpakiewicz et al., 1989; Honarpou et al., 1988; Tillman et al., 1988; Weimer et al., 1988; Jennings, 1987; Meyer and McGee, 1985; Von Drehle, 1985; Hartshorne and Nikonchik, 1984; Momper and Williams, 1984; Aho and Bush, 1982; Holm, 1982; Goldberg and Stevens, 1981; Belden, 1980; Dalziel and Donovan, 1980; Meckel and Nath, 1977; Burt et al., 1975a,b; Shelton, 1972; Stone, 1972; Biggs and McGregor, 1968, 1969; Davies and Berg, 1969; Haddenhorst, 1968a,b; McGregor and Biggs, 1968, 1970, 1972; Berg and Davies, 1968, 1969; Gary and McGregor, 1968; McGregor, 1968; Wulf, 1968
Benrud	Monson et al., 1995; Blair, 1962; Darrow and Cardinal, 1962
Benrud East	Monson, 1995; Swenson, 1967
Big Muddy Creek	Asquith et al., 1978
Big Wall	Cole and Drozd, 1994; Kranzler, 1966; Ramsey, 1959; Vorland, 1956; Beekly, 1955

Blackleaf Canyon	Dolson et al., 1993; Gardner and Achuff, 1989; Paternack, 1988; Johnson, 1984; Clayton et al., 1982; Hurley, 1959
Bowdoin Dome	Shurr, 1998, 2001; Shurr et al., 1993; Rice et al., 1990; Gautier and Claypool, 1984; Nydegger et al., 1980; Rice and Shurr, 1980; Crouch and Nydegger, 1976; Campen, 1972; McCrae and Swenson, 1968; Schroth, 1953
Bowes	Campen, 1972; Sampsel, 1969; Hunt, 1956; Benner and Beeman, 1953
Brady	Gribi, 1959
Breed Creek	Stanton and Silverman, 1989; Hagar and Goodman, 1985; Fanshawe, 1978
Brush Lake	Kohm and Loudon, 1978, 1988
Bullhook	Bayliff, 1972, 1974
Bullwacker	Rice, 1980
Bynum	Gribi, 1959
Cabin Creek	Tanguay and Friedman, 2001; Allan and Wiggins, 1993; Clement, 1987; Roehl, 1985; Ruzyla and Friedman, 1985; McCrae and Swenson, 1968; Roehl, 1967
Cat Creek	Ames, 1993; Aram, 1993b; Nelson, 1993; Stephens and Rodenbaugh, 1985; Schulte, 1966; Shelton, 1966; Hadley, 1956
Cedar Creek Gas	Shurr, 2001; Shurr et al., 1989; Clement, 1987; Green et al., 1997; Gwynn, 1964
Clark's Fork	Johnson and Lindsley-Griffin, 1986; Thompson, 1954
Clark's Fork North	Johnson and Lindsley-Griffin, 1986
Clear Lake	Neese, 1985
Comertown	Edwards and Andrew, 1986; Longman et al., 1983
Coral Creek	Glandt et al., 1999
Crane	Inden et al., 1998; Courtright, 1987; Longman et al., 1983
Crooked Creek	Aram, 1993b
Cutbank	Dolson and Piombino, 1994; Dolson et al., 1993; Pasternack, 1988; Shepard and Bartow, 1986; Cant, 1982; Weimer, 1959; Lynn, 1955; McCoy et al., 1951
Cutbank North	Pasternack, 1988; Oakes, 1966
Darling	Oakes, 1966; Reid, 1955
Dean Dome	Grauman et al., 1986
Deer Creek	Davis and Hunt, 1956
Delphia	Ramsey, 1959; Williams, 1959
Devil's Basin	Knapp, 1956
Devon South	Teague, 1972
Dry Creek	Grauman et al., 1986; Walsh, 1957; Model, 1954
Dwyer	Hansen, 1966
Elk Basin	See References listed for Elk Basin Field in Wyoming
Elk Basin Northwest	Garrett, 1954
Fairview	Kinard and Cronoble, 1969; Walsh, 1969
Flat Coulee	Radella and Galuska, 1966
Flat Lake	Kissling, 1998; Kent et al., 1988
Fred and George Ck.	Branch, 1976; Schulte, 1966; Thompson, 1966
Gage Dome	Ramsey, 1959; Darrow, 1956; Billings Geological Society, 1950
Gas City	Clement, 1987; Davis and Hunt, 1956
Gaslight	Shurr, 1996, 1998, 2001
Glendive	Davis and Hunt, 1956
Golden Dome	Grauman et al., 1986; Dady, 1954
Goose Lake	Ehrenzeller and Inden, 1985
Graben Coulee	Oakes, 1966
Gumbo Ridge	Hagar and Goodman, 1985; Fanshawe, 1978
Gypsy Basin	Dolson et al., 1993; Pasternack, 1988; Gribi, 1959
Hammond	Shurr, 1998
Hawk Creek	Ramsey, 1959
Hay Creek	Walsh, 1969
Hay Lake	Oakes, 1966
Hiawatha	Poole and Starkweather, 1969
Highview	Pasternack, 1988
Ivanhoe	Todd, 1959

Jim-Coulee	Starkweather, 1976
Keg Coulee	Cole and Drozd, 1994
Keg Coulee South	Carlson, 1967
Keith East	Rhodes, 1976
Kelley	McDade and Starkweather, 1969
Kevin-Sunburst	Dolson et al., 1993; Shepard and Bartow, 1986; Weimer, 1959
Kevin East	Kissling, 1996, 1997; Blakeney and Eby, 1988
Knowlton	Pasternack, 1988; Webel, 1987; Johnson, 1984; Napier, 1982
Laird Creek	Campen, 1972
Lake Basin	Sampson, 1954
Landslide Butte	Pasternack, 1988
Leary	Stone, 1972
Leroy	Rice, 1980
Little Wall	Cole and Drozd, 1994; Starkweather, 1976
Lustre	Monson, 1995; Longman and Schmidtman, 1985
Mackay Dome	Grauman et al., 1986
Marcus Snyder	Parker, 1954
Mason Lake	Aram, 1993b
McCabe	Rogers and Mattox, 1985
Medicine Lake	Indorf and Norwood, 1987; Robinson et al., 1982
Melstone	Shepard, 1993; Kranzler, 1966; Chuman, 1956; Darrow, 1951
Midfork	Monson et al., 1995
Midway	Gribi, 1959
MonDak	see listing under North Dakota
MonDak West	Inden et al., 1998; Byrd, 1978
Mosser Dome	Hadley, 1954
Moulton	Anonymous, 1966; Oakes, 1966
Nielson Coulee	Monson et al., 1995
Nine Mile	Kissling, 1996, 1997
North Fork	Longman et al., 1983
Outlook	Kinard and Cronoble, 1969; Parker, 1967; Darrow and Cardinal, 1962; Lewis, 1958
Palomino	Monson, 1995
Pennel	Clement, 1985
Pine	Clement, 1955, 1987
Plevna	Shurr, 2001
Pondera	Dolson et al., 1993; Pasternack, 1988; Shepard and Bartow, 1986; Gribi, 1959; Leskala, 1955; McCoy et al., 1951
Poplar	Monson, 1995; Thamke et al., 1993; Orchard, 1987; Murry, 1959; Harrelson, 1958; Beekly, 1956; Fedderson, 1953
Putnam	Inden et al., 1998
Rabbit Hills	Hendrix and Ford, 1998; Ahmed et al., 1997; Ford et al., 1996; Link et al., 1996
Rabbit Hills NE	Porter et al., 1998; Ahmed et al., 1997
Ragged Point	Shepard, 1993; Sheridan, 1956
Ragged Point SW	Larson, 1976
Ranch Creek	Weimer et al., 1988; Stone, 1972; Biggs and McGregor, 1969; Haddenhorst, 1968
Rattler Butte	Shepard, 1993; Hagar and Goodman, 1985
Raymond	Parker and Powe, 1982; Kohm and Loudon, 1978
Reagan	Dolson et al., 1993; Pasternack, 1988; McCourt, 1955
Red Creek	Lowe, 1959
Red Fox	Ehrets and Kissling, 1985
Red Lodge	Campen and Gruber, 1991
Redstone	Kinard and Cronoble, 1969; Darrow and Cardinal, 1962
Reserve	Kinard and Cronoble, 1969
Richey	Blair, 1960
Richey Southwest	Darrow and Cardinal, 1962
Ridgelawn	Hagist et al., 1995; Pilatzke et al., 1987
Roscoe Dome	Grauman et al., 1986

Rudyard	Shepard and Bartow, 1986
Salt Lake	Hansen and Long, 1991a
Sand Creek	Davis and Hunt, 1956
Sherard Dome	Allison, 1986
Sioux Pass	Mueller and Klipping, 1978
Sioux Pass Middle	Kerr, 1988
Sioux Pass North	Longman et al., 1983
Soap Creek	Nordquist, 1954, 1963
Spring Lake	Cramer, 1991; Hansen and Long, 1991a,b
Stensvad	Cole and Drozd, 1994; Aram, 1993a; Fanshawe, 1978; Staggs, 1959; Todd, 1959
Sumatra	Cole and Drozd, 1994; Aram, 1993a,b; Shepard, 1993; Stanton and Silverman, 1989; Stephens and Rodenbaugh, 1985; Fanshawe, 1978; Todd, 1959
Sumatra Northwest	Omelchuck, 1993; Foster, 1956; Llewellyn, 1955
Tiger Ridge	Rice and Shurr, 1980; Bayliff, 1972, 1974; Campen, 1972; Schoring, 1972; Maher, 1969
Tule Creek	Monson, 1995; Ehrets and Kissling, 1985; Swenson, 1967; Sampsel, 1964; Blair, 1962; Darrow and Cardinal, 1962
Tule Creek East	Swenson, 1967
Two Medicine	Dolson et al., 1993
Utopia	Shepard and Bartow, 1986
Vaux	Hansen and Long, 1991a,b; Sharp, 1978
Volt	Monson, 1995
Wakea	Monson, 1995
Weldon	Williams, 1987; Edmisten and Foster, 1969
Whitlash	Shepard and Bartow, 1986
Wills Creek	Roehl, 1967
Wolf Springs	Luebking et al., 2001; Fanshawe, 1960; Ramsey, 1959; Langen, 1956
Woodrow	Darrow and Cardinal, 1962
Wright Creek	Stone, 1972
Yellowstone	Davis and Hunt, 1956

## WESTERN NEBRASKA

Nebraska's oil and gas production comes mainly from the Panhandle to the west (the northern Denver Basin) and the southwestern part of the state (eastern Denver Basin). Minor production also comes from Richardson County in the southeast corner of the state (Forest City Basin), but that area is outside of the Rocky Mountain region and is not covered in this bibliography.

Nebraska as a whole had 18,093 wells drilled for oil and gas through the end of 1997. Of these, 5,518 (30%) produced oil and 297 (2%) produced gas. There is only one book dedicated specifically to Nebraska's oil and gas fields (Finch et al., 1955). It includes brief discussions of more than 100 Nebraska fields known at that time. In addition, the RMAG has published collections of field studies ("guidebooks") on the Denver Basin that include fields in western Nebraska (Parker, 1961; Crouch, 1982). These collections of short studies include notes, maps, cross sections and tables on many Nebraska fields. Additional information on specific fields is also likely to be available at the Nebraska Oil & Gas Conservation Commission in Sydney, Nebraska (phone: 308-254-6919) where field operators have submitted geological reports, maps, etc., to the Commission for unitization, spacing, or field boundary hearings. These commission reports typically relate to a single field.

### General Nebraska References

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Parker, J.M., ed., 1961, Colorado-Nebraska Oil and Gas Field Volume: RMAG, 389 p.

### References to Specific Nebraska Fields

Amazon	Montgomery et al., 1998; Rogers and Longman, 1988
Anna	Montgomery et al., 1998
Big Springs	Beebe, 1968

Rogers, 1975; Larson, 1962

Bird	Montgomery et al., 1998; Sahl et al., 1993; Rogers and Longman, 1988
Boevau Canyon	Clayton et al., 1987; Dubois, 1979
Canal	Silverman, 1988; Gabarini, 1964
Cedar Valley	Silverman, 1988; Shenk, 1971; Gabarini, 1964
Cizek	Exum and Harms, 1968
Cliff Farms	Montgomery et al., 1998
Cutthroat	Exum and Harms, 1968
Davis-Joyce	Geyer and Pritchett, 1978
Deep Creek	Harms, 1966
Dry Creek	Rogers et al., 1983; Dubois, 1979
Faro	Harms, 1966
Faro North	Harms, 1966
Ft. Laramie	Silverman, 1988
Graff	Harms, 1966
Gurley	McCanne and Krundert, 1956
Harrisburg	Dolloff, 1963; Murray, 1957
Hart	Harms, 1966
High Line	Silverman, 1988
Huntsman	Reeves et al., 1996
Jormar	Dolly, 1996; Van Kirk, 1976
Juelfs	Exum and Harms, 1968
Juelfs-Gaylord	Oldham, 1996; Fish, 1982
Kleinholz	Montgomery et al., 1998; Rall and Loeffler, 1994; Sahl et al., 1993
Lane	Berg, 1975a; Harms, 1966
Lindberg	Exum and Harms, 1968
Long	Montgomery et al., 1998;
Mamoo	Montgomery et al., 1998; Sahl et al., 1993
Minatare	Silverman, 1988
Murfin	Montgomery et al., 1998
Mustang Canyon	Silverman, 1988
Oregon Trail	Silverman, 1988
Power Plant	Silverman, 1988
Reimers	Harms, 1966
Roubadeau	Silverman, 1988
Sidney	Beebe, 1968
Singleton	Exum and Harms, 1968
Slama	Sims, 1959
Sleepy Hollow	Williams and Pitts, 1997; Christopher et al., 1988; Rogers, 1975, 1977; Sandlin, 1965
Sloss	Erickson et al., 1993; Basan et al., 1978; Wanosik et al., 1978; Buxton and Pollock, 1974; Parrish et al., 1974
Stauffer	Murray, 1957
Terrestrial	Montgomery et al., 1998
Vessels	Silverman, 1988
Willson Ranch	Exum and Harms, 1968; Boardman, 1959

## NEVADA

Commercial oil production was first established in Nevada in 1954 with the discovery of Eagle Springs Field by Shell Oil. It took 22 years and approximately 200 dry holes before the next commercial discovery at Trap Spring Field in 1976. This limited success over such a long period is partly the result of the complex tectonic history of Nevada.

All oil production found to date in Nevada occurs in Nye and Eureka counties in the central part of the state. Depending a bit on how one counts fields, only a dozen or so commercial fields have been found to date, but wells in some of these (e.g., Grant Canyon) had the distinction of producing oil at remarkably high rates (thousands of barrels per day). These high flow rates, the fact that large reserves occur in relatively small areas, and the complex structures in the state resulting in part from its several orogenies and present-day Basin and Range topography, have made Nevada a wildcatter's paradise during the past three decades.

Only 559 wells had been drilled for oil and gas in Nevada through the end of 1997. Of these, 104 (18%) produced oil and only one had produced gas. This means that 82% of the wells drilled in the state were dry holes. Nevertheless, Nevada remains greatly underexplored and should provide numerous exploration opportunities into the 21st century.

A wealth of information has been published on the geology of Nevada and its oil and gas fields, but this information tends to be widely scattered among different geologic societies and organizations. One good starting place for information is RMAG's 1979 Basin and Range Symposium edited by Gary Newman et al. Another useful volume is the Geothermal Resources Council 1983 volume entitled "The Role of Heat in the Development of Energy and Mineral Resources in the Northern Basin and Range Province." Many other useful volumes have been published by the Nevada Petroleum Society (e.g., Schalla and Johnson, 1994; French and Shalla, 1998), various field trip guidebooks (e.g., Foster et al., 1989), and assorted industry publications (e.g., Montgomery, 1988).

### General Nevada References

Flanigan, D.M.H., M. Hansen, and T.E. Flanigan, eds., 1991, Geology of the White River Valley, the Grant Range, eastern Railroad Valley, and western Egan Range, Nevada: Nevada Petroleum Society, Reno, 1991 Field Trip Guidebook.

Foster, N.H., L. Bortz, H. Duey, A. Chamberlain, and S. Veal, eds., 1989, Petroleum Potential of the Basin and Range Province: 28th International Geologic Congress, Field Trip Guidebook T113, 128 p.

French, D.E., and R.A. Schalla, eds., 1998, Hydrocarbon habitat and special geologic problems of the Great Basin: Nevada Petroleum Society, Reno, 109 p.

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Newman, G.W., and H.D. Goode, eds., 1979, Basin and Range Symposium: RMAG, 662 p.

Shalla, R.A., and E.H. Johnson, eds., 1994, Oil fields of the Great Basin: Nevada Petroleum Society, Reno, 380 p.

### References to Specific Nevada Fields

Bacon Flat	Johnson, 1993, 1994, 1995, 1996; Zwart and Johnson, 1995; Hulen et al., 1994; McCutcheon and Zogg, 1994; French, 1993; Hulen and Nielson, 1993; Walker et al., 1992; Hulen et al., 1991; Veal et al., 1988
Blackburn	Bortz, 1998; Flanigan, 1994; Hulen and Nielson, 1993; Walker et al., 1992; Hulen et al., 1990; Scott and Chamberlain, 1988; McCoy and Wullstein, 1988
Currant	Duey, 1994; French, 1983b; Guion and Pearson, 1979
Duckwater Creek	French and Kozlowski, 1994
Eagle Springs	Montgomery et al., 1999; Rowe et al., 1998; Bortz, 1994; Peterson, 1994; Klusman et al., 1992; Walker et al., 1992; Veal et al., 1988; Foster et al., 1985; French, 1983b,c; Guion and Pearson, 1979, 1982; Bortz and Murray, 1979; Vreeland and Berrong, 1979; Murray and Bortz, 1967
Ghost Ranch	Montgomery et al., 1999; Ransom et al., 1998; Montgomery, 1997b
Grant Canyon	Montgomery, 1997b; Johnson, 1993, 1994, 1995, 1996; Zwart and Johnson, 1995; McCutcheon and Zogg, 1994; Hulen et al., 1990, 1994; French, 1993; Hulen and Nielson, 1993; Lund et al., 1993; Walker et al., 1992; Hulen et al., 1991; Bereskin et al., 1989; Read and Zogg, 1988; Veal et al., 1988
Kate Spring	Montgomery et al., 1999; Ransom et al., 1998; Rowe et al., 1998; Herring, 1994; Walker et al., 1992; French, 1991; Flanigan, 1988
Sans Spring	Mitchell, 1995; Grabb, 1994
Three Bar	Schalla and Grabb, 1994
Tomera Ranch	Hansen et al., 1994
Trap Spring	Rowe et al., 1998; French, 1994; Walker et al., 1992; Veal et al., 1988; French, 1983b,c; Guion and Pearson, 1979, 1982; Dolly, 1979; Duey, 1979; Foster, 1979; French and Freeman, 1979; Vreeland and Berrong, 1979
Willow Creek North	Hansen et al., 1994



Only the northern third of New Mexico is covered in this bibliography; the production from the southeastern part of the state is considered to lie outside the Rocky Mountain region. Most of the fields listed below are located in the San Juan Basin where major reserves of oil and gas have been discovered.

Among the best overview papers on northern New Mexico are those published by the New Mexico Geological Society. These include the guidebooks edited by Fassett et al. (1977) and Lucas et al. (1992) on the San Juan Basin, and James (1971) on the San Luis Basin. The New Mexico Bureau of Mines and Mineral Resources, located in Socorro, also has a useful series of Bulletins and Circulars that cover various aspects of New Mexico's geology.

Collections of field studies that include some of the fields in northwestern New Mexico include those of Kuhn (1958) and the multi-volume collection edited by J.E. Fassett entitled "Oil and Gas Fields of the Four Corners Area" (1978, 1983). Three of New Mexico's oil fields are included in Dolly and Mullarkey (1996): Blanco, Eagle Mesa, and Media.

### General New Mexico References

Dolly, E.D., and J.C. Mullarkey, eds., 1996, Hydrocarbon Production from Low Contrast, Low Resistivity Reservoirs, Rocky Mountain and Mid-Continent Regions: Log Examples of Subtle Pays: RMAG, 290 p. (Blanco, Eagle Mesa, and Media)

Fassett, J.E., ed., 1978, Oil and Gas Fields of the Four Corners Area: Four Corners Geological Society, v. 1 and 2, 726 p.

Fassett, J.E., ed., 1983, Oil and Gas Fields of the Four Corners Area: Four Corners Geological Society, v. 3, 729-1143 p.

Fassett, J.E., H.L. James, and H.E. Hodgson, eds., 1977, San Juan Basin III, Twenty-eighth Annual Field Conference, New Mexico Geological Society, 307 p.

James, H.L., ed., 1971, Guidebook of the San Luis Basin, Colorado: Twenty-second Annual Field Conference: New Mexico Geological Society, 325 p.

Kuhn, P.J., ed., 1958, Oil and Gas in the Four Corners: National Petroleum Bibliography, Amarillo, Texas.

Lucas, S.G., B.S. Kues, T.E. Williamson, and A.P. Hunt, eds., 1992, San Juan Basin IV, Forty-third Annual Field Conference: New Mexico Geological Society, 411 p.

<b>References to Specific Northern New Mexico Fields</b>	<b>Armenta</b>	<b>Bottjer and Stein, 1994</b>
Baca		Bottjer and Stein, 1994; Bodvarsson et al., 1980
Barker Creek		Picard et al., 1968
Bisti		Jeanette and Jones, 1995; Bottjer and Stein, 1994; Pasley et al., 1993; Tuttle et al., 1989; Dickey and Cox, 1977; Busch, 1974; Sabins, 1972; Brinkley et al., 1964; Sabins, 1963; McNeal, 1961; Brooks, 1958; Tomkins, 1957
Blanco		Hartstad, 1998; Basinski et al., 1997; Harr, 1988; Dickey and Cox, 1977; Dhir et al., 1991; Maldonado et al., 1983 (see also Blanco Field in Colorado)
Boulder		Greer and Ellis, 1991; Gorham et al., 1979
Bravo Dome		Broadhead, 1990
Cedar Hill		Benson and Davis, 1999; Murray and Schwochow, 1997; Ramos and Davis, 1997; Whitehead, 1997; Benson et al., 1996; Davis et al., 1993, 1995; Heim and Van Kirk, 1995; Davis and Benson, 1992; Dart, 1992; Ambrose and Ayers, 1991; Bumgardner, 1991; Decker et al., 1988
Central Basin Field		Ayers, 2001; Harstad, 1998; Ouenes et al., 1998; Whitehead, 1997; Keighin et al., 1993; Dart, 1992; Dhir et al., 1991; Scott et al., 1991
Cha Cha		Jeanette and Jones, 1995; Bottjer and Stein, 1994
Doswell		Lilly, 1952
Eagle Mesa		Parker and Ray, 2001; Masse and Ray, 1995; Fryberger, 1990; Chittum, 1985; Vincelette and Chittum, 1981
Gallegos		Jeanette and Jones, 1995; Bottjer and Stein, 1994; Dickey and Cox, 1977
Gavilan		Greer and Ellis, 1991; Hueni et al., 1990; Emmendorfer, 1989
Horseshoe-Gallup		Herbeck and Pringle, 1964; Penttila, 1964; Knight and Budd, 1959
Horseshoe Canyon		Jeanette and Jones, 1995; Sabins, 1972
Ignacio-Blanco		Ault et al., 1997; Harr, 1988
Kutz		Bottjer and Stein, 1994
Leggs		Chittum, 1985
Lindrieth West		Franklin and Tieh, 1989

Lone Pine	Berg, 1979
Los Pinos	Murray and Schwochow, 1997
Many Rocks	Jeanette and Jones, 1995; Little and Carlson, 1965
Media	Masse and Ray, 1995; Fryberger, 1990; Chittum, 1985; Vincelette and Chittum, 1981
Ojo Encino	Nester and Endsley, 1992
Papers Wash	Fryberger, 1986; Chittum, 1985; Vincelette and Chittum, 1981
Papers Wash South	Fryberger, 1986; Vincelette and Chittum, 1981
Pinon	Bottjer and Stein, 1994
Puerto Chiquito East	Gorham et al., 1979
Puerto Chiquito West	Dart, 1992; Greer and Ellis, 1991; Gorham et al., 1979
Rio Puerco	Lacy et al., 1992; Chittum, 1985
Rusty	Chittum, 1985
Total	Jeanette and Jones, 1995
Ute Dome	Hart et al., 2001a,b; Dart, 1992; Picard et al., 1968
Valencia Canyon	Mavor, 1998
Verde	Dart, 1992; Gorham et al., 1979
Wagon Mound	Woodward, 1997
Waterflow South	Jeanette and Jones, 1995
Wildhorse	Dart, 1992

## **NORTH DAKOTA**

The Williston Basin is the largest sedimentary basin in the Rocky Mountain region. In the U.S. portion of the basin, hydrocarbons occur primarily in Paleozoic carbonate rocks. Exploration in the basin began in the post-World War II era with the drilling of shallow Madison (Mississippian) reservoirs. Significant Madison production was found on the Nesson Anticline, and from the Lodgepole Formation in Manitoba in the 1950s and 60s. The Cedar Creek Anticline in Montana and South Dakota was the site of significant Interlake (Silurian) and Red River (Ordovician) production. Deeper tests on the Nesson Anticline were also drilled during this era indicating potential in the older Paleozoic section.

The second phase of exploration occurred after the Arab oil embargo in the 1970s. This phase centered on exploiting deeper Madison reservoirs, mainly in the Billings Nose area, and drilling deep Red River seismic structures, principally in the U.S. portion of the basin. Multiple Paleozoic pays were encountered while drilling deep Red River structures. This phase of exploration diminished as the price of oil dropped in the late 1980s.

The third phase of exploration centered on horizontal drilling. This technology was successfully employed in Madison reservoirs (especially in Canada) and Red River beds. The Cedar Hills Field in the southwestern portion of the basin has 100+ MMBO reserves in the Red River "B" zone, which were uneconomic without horizontal technology. During this third phase of exploration, Lodgepole mounds were found to be capable of highly commercial production in the Dickinson area of North Dakota. A brief resurgence of Red River exploration also occurred during this era as a result of 3-D seismic surveys.

As of the end of 1997, 12,501 wells had been drilled for oil and gas in North Dakota. Of these, 6520 wells (52%) had produced oil and 111 (1%) had produced gas.

The best references for oil and gas exploration in the Williston Basin are found in the Williston Basin symposia. These books are collections of papers concerning various aspects of exploration and production in the basin. The Rocky Mountain Association of Geologists has published a symposium on the Williston Basin (Longman, 1987) and a carbonate petrophysical book with several papers on the Williston Basin (Goolsby and Longman, 1988). The Montana Geological Society has also published guidebooks incorporating data on the Williston Basin.

The North Dakota Geological Survey compiled a bibliography of the geology of North Dakota (1980-1993, Miscellaneous Series # 83). This is an excellent resource for all aspects of petroleum systems. There are two books no longer in print that were compiled by the North Dakota Geological Society. These books describe the early histories of many North Dakota fields and are entitled: Oil and Gas Fields of North Dakota - a Symposium (Volume 1, 1962 and Volume 2, 1967).

Seven of North Dakota's oil fields are included in Dolly and Mullarkey (1996). Fields discussed in the short papers in this volume are Blue Buttes, Charlson, Covered Bridge, Haas, Rough Rider, Sather Lake, and Whiskey Joe. These papers include a brief write-up, a map of the field, and a panel of wireline logs.

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Carlson, C.G., 1969, Deep oil and gas possibilities of the Nesson anticline area: Montana Geological Society Symposium on the Economic Geology of Eastern Montana, p. 21-31.

Dallas, D.D., and D.E. Lalm, 1962, Devonian oil fields of the Nesson anticline: Billings Geological Society 13th Annual Field Conference Guidebook, p. 101-105.

Dolly, E.D., and J.C. Mullarkey, eds., 1996, Hydrocarbon Production from Low Contrast, Low Resistivity Reservoirs, Rocky Mountain and Mid-Continent Regions: Log Examples of Subtle Pays: RMAG, 290 p. (Blue Buttes, Charlson, Covered Bridge, Haas, Rough Rider, Sather Lake, Whiskey Joe)

Goolsby, S.M., and M.W. Longman, eds., 1988, Occurrence and Petrophysical Properties of Carbonate Reservoirs in the Rocky Mountain Region: RMAG Symposium, 474 p.

Longman, M.W., ed., 1987, Williston Basin: Anatomy of a Cratonic Oil Province: RMAG Symposium, 440 p.

Montana Geological Society, 1969, North Dakota Producing Fields: Montana Geological Society Symposium on the Economic Geology of Eastern Montana, p. 12-13.

Montana Geological Society, 1978, State of North Dakota: Summary of producing oil fields: Montana Geological Society 24th Annual Guidebook to the Economic Geology of the Williston Basin, p. 8-12.

Montana Geological Society, 1991, Well-by-well production information for vertical and horizontal Bakken wells: Montana Geological Society Guidebook to Geology and Horizontal Drilling of the Bakken Formation, p. 180-197.

North Dakota Geological Society, 1962 and 1967, Oil and gas fields of North Dakota - A Symposium, v. 1 and 2.

Shurr, G.W., 2001 Basin-margin gas in the Rocky Mountains and adjacent Great Plains, in D.S. Anderson, J.W. Robinson, J.E. Estes-Jackson, and E.B. Coalson, eds., Gas in the Rockies: RMAG, p. 223-239.

<b>References to Specific North Dakota Fields</b>	<b>Ambrose</b>	<b>Kissling, 1998; Weinzapfel and Neese, 1986</b>
Anderson Coulee	Altshuld and Kerr, 1982	
Antelope	Tanguay and Friedman, 2001; LeFever, 1991, 1996; Schmoker, 1996; McGee et al., 1989; Lindsay et al., 1988; Carlisle et al., 1992; Cramer, 1991; Meissner, 1978, 1984, 1991; Sperr, 1991; Webster, 1982, 1987; Anderson and Eastwood, 1968; Murray, 1968	
Ash Coulee	Brooks, 1991	
Baker	Dean, 1987	
Beaver Creek	Hansen and Long, 1991b; Jaafar, 1980	
Beaver Lodge	Lindsay et al., 1988; Carlson and Thompson, 1987; Anderson and Eastwood, 1968; Pernicelle, 1964; Laird et al., 1955; Hadley, 1951	
Bicentennial	Cramer, 1991; Deans et al., 1991; Hansen and Long, 1991a	
Big Stick	McMillen et al., 1996; DeMis, 1995; Berg et al., 1994; Breig, 1988a,b; Petty, 1988; Altshuld and Kerr, 1982	
Black Slough N & S	Eisel and Hendricks, 1990; Lindsay, 1985	
Blue Buttes	Inden et al., 1988; Lindsay et al., 1988	
Boxcar Butte	LeFever and Crashell, 1991; Martens, 1978	
Buckhorn	Cramer, 1991; LeFever, 1991; Altshuld and Kerr, 1982	
Bull Moose	Schwartz and Hendricks, 1989	
Capa	Erickson et al., 1993; Inden et al., 1988; Lindsay et al., 1988	
Catwalk	Shanks and Bailey, 1982	
Cedar Hills	McClellan and Gaber, 1998; Whiteman et al., 1998; Montgomery, 1997a,c	
Chama	McClellan et al., 1998	
Charlson	Tanguay and Friedman, 2001; Inden et al., 1988, 1998; Lindsay et al., 1988; Bates, 1986; Marchant and Hamke, 1964	
Chola	Lindsay, 1988	
Cimbel	Butler and Shewmake, 1995; Wetmore and Videtich, 1992	
Clear Creek	Lindsay, 1988; Lindsay et al., 1988; Marchant and Hamke, 1964	
Cold Turkey Creek	Bailey and Sippel, 1998; Sippel, 1997, 1998; Gerhard et al., 1995	
Colgan	Weinzapfel and Neese, 1986	
Coteau	Voldseth, 1986	
Coteau South	Eisel and Hendricks, 1986	

Dale	Voldseth, 1986
Devil's Pass	Cramer, 1991
Dickinson	Sheedlo et al., 2000; Longman, 1996, 1997; Sprain, 1997; Kupecz et al., 1996; LeFever, 1996; Montgomery, 1996b; Johnson, 1995; Gordon, 1995; Burke and Diehl, 1995; Burke and Lasemi, 1995; LeFever et al., 1995; Shurr et al., 1995; Barwis, 1990; Sturm, 1987; Gerhard et al., 1982; Land, 1976
Dobson Butte	Montgomery, 1996b; Guy, 1987
Duck Creek	Burke, 1997; Kupecz et al., 1996; Montgomery, 1996b
Eland	Burke, 1997; Sprain, 1997; Kupecz et al., 1996; LeFever, 1996; Lentz and Oltmans, 1996; Montgomery, 1996b; Burke and Diehl, 1995; Shurr et al., 1995
Elk	Hendricks, 1988
Elkhorn Ranch	DeMis, 1995; Berg et al., 1994; Carlisle et al., 1992; Lacy et al., 1992; DeMis, 1992; LeFever, 1992; Price and LeFever, 1992; Stark, 1992; Stell and Brown, 1992; Cramer, 1991; Deans et al., 1991; Hansen and Long, 1991a,b; LeFever, 1991; Valvik, 1990; Burke, 1989; Petty, 1988; DeMis, 1987; Kupecz, 1984; Altshuld and Kerr, 1982
Elmore	Lindsay, 1988; Hendricks et al., 1987
Elms	Butler and Shewmake, 1995
Flaxton	Schwartz, 1987,1988; Voldseth, 1986
Foothills	Eisel and Hendricks, 1990; Lindsay, 1985, 1988
Four Eyes	Berg et al., 1994; Breig, 1988; Petty, 1988; Ehrets and Kissling, 1985; Kupecz, 1984; Altshuld and Kerr, 1982
Franks Creek	Berg et al., 1994
Fryburg	Barwis, 1990; Petty, 1988; Sturm, 1987; Gerhard et al., 1982; Sturm, 1982a,b; Parker, 1967
Glass Bluff	Locklin and Damp, 1995; Hendricks, 1988
Glenburn	Petty, 1996; Borchert et al., 1990; Gerhard et al., 1988; Lindsay, 1988; Gerhard, 1985; Gerhard et al., 1978
Gooseneck	Kissling, 1998; Neese and Weinzapfel, 1986; Weinzapfel and Neese, 1986
Grand River School	Sippel, 1998
Green River	Sturm, 1987; Land, 1976
Greene West	Miller, 1997; Eisel and Hendricks, 1996
Grenora	Hansen, 1966
Haas	Lindsay, 1988; Elliott, 1982, 1987; Harris et al., 1966
Haas North	Lindsay, 1988
Haram	Butler and Shewmake, 1995
Hardscrabble	Dean, 1987
Hawkeye	Tanguay and Friedman, 2001; Lindsay et al., 1988
Hay Draw	LeFever, 1992
Heart South	Sturm, 1987; Land, 1976
Hiline	Kupecz et al., 1996; Montgomery, 1996b
Hofflund	Lindsay et al., 1988
Horse Creek	Watts et al., 1997; Longman et al., 1992
Horse Creek South	Longman et al., 1992
Indian Hill	Dean, 1987; Mayer, 1987
Keene	Tanguay and Friedman, 2001; Bates, 1986
Killdeer	Derby and Kilpatrick, 1985
Knutson	Berg et al., 1994; LeFever and Crashell, 1991; Bogle and Hansen, 1987
Lake Darling	Quinn, 1986
Landa Northeast	Butler and Shewmake, 1995; Kinard, 1964; Smith, 1956
Lesje	Butler and Shewmake, 1995
Lignite	Lindsay, 1985, 1988; Mitchell and Petter, 1958
Little Knife	Martin et al., 1997; LeFever and Crashell, 1991; Wittstrom, 1990; Petty, 1988; Lindsay, 1987, 1988; Narr and Burruss, 1984; Gerhard et al., 1982; Lindsay and Roth, 1982; Roth and Schreiber, 1982; Lindsay and Kendall, 1980; Wittstrom and Hagemeyer, 1978a,b
Little Missouri	Shurr, 1996, 1998, 2001; Gautier, 1981
Lone Butte	Petty, 1988
Lucky Mound	Burke, 1994, 1998, 1999; Fisher and Hendricks, 1991
Macabee Coulee	Quinn, 1986

McGregor	Sperr, 1991
McKinney	Hendricks et al., 1987
Medicine Pole Hills	Kumar and Fassihi, 1994; Erickson et al., 1993; Fischer et al., 1990; Kohm and Loudon, 1988
Medora	Barwis, 1990; Petty, 1988; Sturm, 1982, 1987
Mohall	Harris et al., 1966
MonDak	Kerr, 1988; Courtright, 1987; Chimney and Wittstrom, 1983; Gerhard et al., 1982; Parker and Hess, 1980; Byrd, 1978
Mouse River Park	Petty, 1996; Lindsay, 1988; Reeve, 1986; Harris et al., 1966
Newburg	Christensen et al., 1992; LeFever and LeFever, 1991; Dodge and Reid, 1986; Gerhard et al., 1982; Marafi, 1968; Harrison and Larson, 1958
Newporte	Hendricks, 1999; Grieve et al., 1998; Hendricks et al., 1998a,b; Forsman et al., 1996; LeFever, 1996; Gerlach et al., 1995; Gerlach, 1994; Carlson and Thompson, 1987; Mescher and Pol, 1985; Gerhard et al., 1982
Niobe	Burke, 1991
Pierre Creek	Schwartz and Hendricks, 1989
Plaza	Webster and Van Arsdale, 1995; Sperr et al., 1993
Redwing Creek	Grieve et al., 1998; McGee et al., 1989; Bridges, 1977, 1978, 1987; Meyer and McGee, 1985; Gerhard et al., 1982; Brenan et al., 1975; Sawatzky, 1975; Parsons, 1974
Richardton	Chimney et al., 1992; LeFever and Crashell, 1991; Anderson, 1982
Rival	Lindsay, 1985, 1988
Rocky Ridge	Hastings, 1990; Gerhard et al., 1982; Sturm, 1982; Harris, 1958
Roosevelt	Cramer, 1991; Hansen and Long, 1991a,b
Rosebud	Dean, 1987
Roth	Kinard, 1964
Roughrider	LeFever and Crashell, 1991; Hansen and Long, 1991a; Valvik, 1990; Schwartz and Hendricks, 1989; Petty, 1988; Mander, 1980
Round Prairie	Kinard and Cronoble, 1969
Sherwood	Potter, 1995; Hendricks, 1990; Lindsay, 1988; Hendricks et al., 1987
Sioux	Hendricks, 1988
Skjermo	Neese, 1985
Smith	Miller, 1997; Eisel and Hendricks, 1990; Hendricks et al., 1987
Square Butte	Petty, 1988
Squaw Gap	Cramer, 1991
Stanley	Petty, 1996; Beach and Giffin, 1992; Andrew, 1985; Beach and Schumacher, 1982
Starbuck South	Oglesby and Fischer, 1991
Stoneview	LeFever et al., 1991
Taylor	LeFever, 1996; Chimney et al., 1992
Temple	Guy and Braden, 1986; Dean, 1982
Tioga	Eisel and Hendricks, 1991; Inden et al., 1988; Lindsay et al., 1988; Laird et al., 1955
Tioga North	Eisel and Hendricks, 1991; Lindsay et al., 1988; Murry, 1959
Tioga West	LeFever et al., 1991
Tolley	Hendricks et al., 1987; Harris et al., 1966
TR	DeMis, 1995; Burke, 1989; Breig, 1988; Petty, 1988; Altshuld and Kerr, 1982
Tree Top	DeMis, 1995; Inden and Burke, 1995; Berg et al., 1994; Burke, 1989; Burke and Heck, 1988; Petty, 1988; Durall, 1987; Ehrets and Kissling, 1985; Altshuld and Kerr, 1982
Trenton	Dean, 1987
Vanville	Burke, 1991
Versippi	Sprain, 1997; Kupecz et al., 1996; Montgomery, 1996b
Wabek	Longman et al., 2001; Hendricks, 1996; Webster and Van Arsdale, 1995; Sperr et al., 1993
Wayne	Jennings and Johnson, 1996
Westhope North	Smith, 1956
Westhope South	Christensen et al., 1992; LeFever and LeFever, 1991; Marafi, 1968
Whiskey Joe	Berg et al., 1994; Burke, 1989; Breig, 1988; Durall, 1987; Altshuld and Kerr, 1982
Whitetail	Burke, 1989
Wiley	Luther, 1988, 1995; Reeve, 1986
Williston	Dean, 1987
Zenith	Sturm, 1987

## SOUTH DAKOTA

Only four of South Dakota's 66 counties produce oil: Harding County in the southern Williston Basin, Dewey County where 100,000 barrels of oil has been produced from the Red River Formation in Lantry Field, and Fall River and Custer counties in the southwest corner of the state where the Pennsylvanian Leo sandstones are productive. Through the end of 1996, 1,185 wells had been drilled in the state with 241 (20%) completed as oil wells and 68 (6%) completed as gas wells.

No good general references to South Dakota's oil and gas fields were found during preparation of this bibliography, but a list of the state's oil fields in the southern Williston Basin has been published by the Montana Geological Society in its 1978 Williston Basin Symposium. Papers on the various producing fields are scattered through the literature, in part because of the diversity and relatively small size of the fields in the state. A few papers on the Leo production in the southwest corner of the state occur in the guidebooks of the Wyoming Geological Association, and a couple papers on the Harding County area occur in Williston Basin Symposia volumes. It is possible that the South Dakota Geological Survey, located in Vermillion, also has some useful references, but these were not reviewed during preparation of this bibliography.

### General South Dakota Reference

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Shurr, G.W., 2001 Basin-margin gas in the Rocky Mountains and adjacent Great Plains, in D.S. Anderson, J.W. Robinson, J.E. Estes-Jackson, and E.B. Coalson, eds., Gas in the Rockies: RMAG, p. 223-239.

<b>References to Specific South Dakota Fields</b>	
Alum Creek	Namoglu, 1987; Morel et al., 1986;
Cardinal and Sherer	1984
Barker Dome	Gries, 1964
Buffalo	Williams and Pitts, 1997; Erickson et al., 1993; Schowalter and Hess, 1982
Buffalo South	Erickson et al., 1993
Cady Creek	Dolly and Mullarkey, 1996; Shurr, 1996, 1998; Steece, 1989
Cottonwood	Morel et al., 1986
Edgemont	Namoglu, 1987
Hollingsworth North	Morel et al., 1986
Indian Creek	Namoglu, 1987; Morel et al., 1986
Lantry	Bogle et al., 1998; Longman et al., 1998
Sheep Draw	Morel et al., 1986
Short Pine Hills West	Shurr, 1996, 1998, 2001; Dolly and Mullarkey, 1996; Mazzullo, 1989; Steece, 1989; Strothman, 1988
Simms East	Morel et al., 1986

## UTAH

Oil was known in Utah by the native Americans and the pioneers in the middle of the 19th century (Rozel Point at the north end of the Great Salt Lake) and uneconomic fields were discovered in 1907-1908 at Virgin Field in southwestern Utah and at Mexican Hat in the Paradox Basin. The first commercial production was gas at Clay Basin Field on the north flank of the Uinta Mountains in 1927, and at Ashley Valley Field on the south flank of the mountains in 1929. It was not until after World War II that the petroleum industry launched significant exploration programs in Utah. These resulted in the discovery of oil fields at Ashley Valley (1948), in the Uinta Basin (1951), and in the Paradox Basin (1956).

Shortly after the influx of exploration geologists into Utah, they recognized the benefits of forming organizations to share their geologic knowledge of this frontier region. In 1946 the Utah Geological Society (UGA) was formed, and in 1949 the Intermountain Association of Petroleum Geologists (IAPG) was formed. Both of these organizations published guidebooks for various parts of the region and conducted technical meetings. These traditions have been continued to the present by successor organizations. The IAPG was reorganized as the Intermountain Association of Geologists (IAG) in 1965, and in 1970 the IAG merged with the Utah Geological Association to form the Utah Geological Association. The subject matter covered by the meetings and guidebooks reflect the diverse geologic fields of the members and include regional stratigraphy and structure, petroleum, geomorphology, metal and non-metal mining as well as the geologic aspects of environmental concerns.

Virtually all oil and gas production in Utah comes from the eastern half of the state in areas including from north to south, the Uinta, Piceance, and Paradox basins, and the Wasatch Plateau area near the center of the state. A total of 10,228 wells had been drilled in the state through the end of 1997. Of these, 4216 (40%) produced oil and 2060 (19%) produced gas. Exploration for gas is currently surging in the state as a number of large regional accumulations have recently been discovered in the Cretaceous and Tertiary sections. A summary of the major gas plays in Utah is included in Broadhead and Robertson (1993).

The references in this bibliography cite the name of the organization from the title pages. Some libraries may have had difficulty keeping these publications together because of the name changes of the organizations which published them; however, all of the organizations gave Salt Lake City, Utah as their address. The Utah Geological Survey (formerly the Utah Geological and Mineralogical Survey and the Utah Geological and Mineral Survey) maintains an office in Salt Lake City.

Two general references on the geology of Utah also merit a brief mention here. These are by William Stokes (1986) and Lehi Hintze (1988), both of whom can be considered among the most knowledgeable of Utah's many geologists. While including extensive discussions of the geology of the state, neither of these books is specifically oriented toward oil and gas reservoirs, however.

### **General Utah References**

Broadhead, R.F., and J.M. Robertson, Project Managers, 1993, Atlas of Major Rocky Mountain Gas Reservoirs: New Mexico Bureau of Mines and Mineral Resources, 206 p.

Chidsey, T.C., and P.B. Anderson, 1994, Oil and gas pipeline map of Utah: Utah Geological Survey, Public Information Series No. 22.

Chidsey, T.C., and P.B. Anderson, 1995, Oil and gas pipeline map of Utah: Utah Geological Survey Open-File Report 327DF on disk.

Clem, K.M., and K.W. Brown, 1984, Petroleum resources of the Paradox Basin: Utah Geological and Mineral Survey Bulletin 119, 162 p.

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Ruble, T.E., and R.P. Philips, 1998, Stratigraphy, depositional environments and organic geochemistry of source-rocks in the Green River petroleum system, Uinta Basin, Utah: *in* J. Pitman and A. Carroll, eds., Modern and Ancient Lakes: Utah Geological Association, p. 289-321.

Stokes, W.L., 1986, Geology of Utah: Utah Museum of Natural History and Utah Geological and Mineral Survey, 300 p.

Weigand, D.L., ed., 1981, Geology of the Paradox Basin, RMAG, 285 p.

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Akah Peterson and Hite, 1969; Peterson, 1966; Sheffer, 1958

Altamont Osmond, 2000a,b; Bates et al., 1999; Horn, 1998; Claypool, 1998; Harthill et al., 1997; Bredehoeft et al., 1994; Fouch et al., 1994; Ai, 1992; McCoy and Young, 1992; Marshall and Pilcher, 1989; Sweeney et al., 1987; Trichel et al., 1985; Clem, 1984; Narr and Currie, 1982; Pittman et al., 1982; Lucas and Drexler, 1975, 1976

Anasazi Montgomery et al., 1999; Chidsey et al., 1996

Anderson Junction Harris, 1994; Peterson, 1973a

Aneth Hall, 1998; Amateis and Hall, 1997; Grammer et al., 1996; Hall, 1996; Amateis, 1995; Johnson and Groen, 1995; Likarish et al., 1995; Weber et al., 1995; Eby et al., 1993; Peterson, 1992; Peterson, 1989; Baars and Stevenson, 1982; Lehman, 1981; Peterson and Hite, 1969; Picard et al., 1968; Peterson, 1966; Burchell and Coonts, 1964; Zaffarano, 1959; Lyons, 1958; Picard, 1958; Quigley, 1958; Robinson, 1958; Herman and Barkell, 1957

Anschutz Ranch Sprinkle, 1999; Deming and Chapman, 1989; Dow, 1988; Couples et al., 1987; Kleinsteiber and Calvin, 1983; Uygur, 1983; West and Lewis, 1982; Hodgden and McDonald, 1977

Anschutz Ranch East Sprinkle, 1999; Benson, 1995; Fryberger, 1990; White et al., 1990; Deming and Chapman, 1989; Sercombe, 1989; Dow, 1988; DeBruin, 1987; Uygur, 1983; Lelek, 1982 (see also listing under Wyoming)

Antelope Creek Foulk et al., 1998

Ashley Creek Hoffman, 1957; McCoy et al., 1951

Ashley Valley Jensen, 1958; Peterson, 1957

Bar-X Owen and Whitney, 1956

Bartlett Flat Morgan, 1992a,b

Bend Osmond et al., 1968

Big Flat Parker, 1960; Carlton, 1958

Blaze Canyon Walton, 1956

Blue Hogan Montgomery et al., 1999; Chidsey et al., 1996

Bluebell Osmond, 2000a,b; Bates et al., 1999; Horn, 1998; Montgomery and Morgan, 1998; Claypool, 1998; Harthill et al., 1997; Morgan, 1995; Morgan et al., 1995; Tripp, 1995; Fouch et al., 1994b; Morgan, 1994; Peterson, 1973b; Ai, 1992; McCoy and Young, 1992; Sweeney et al., 1987; Trichel et al., 1985; Pittman et al., 1982; Lucas and Drexler, 1975, 1976; Naylor, 1957; Miller, 1950

Bluff Peterson, 1966; Conner and Wright, 1958; Herman and Barkell, 1957

Boundary Butte Peterson and Hite, 1969; Sheffer, 1958; Spragg, 1952

Boundary Butte North Herman and Barkell, 1957

Brennam Bottom Osmond, 1957

Bridgeland Morgan, 1997a

Bridger Lake Reisser and Blanke, 1989; Ryer et al., 1987; Wach, 1977; Webb, 1975; Peterson, 1973c; Burt, 1971; Garvin, 1969; Ritzma, 1969; Parker, 1966

Brundage Canyon Morgan et al., 2001

Bug Eby and Chidsey, 2001; Roylance, 1990; Moriarty and Grundy, 1985; Baars and Stevenson, 1982; Krivanek, 1981

Buzzard's Bench Montgomery et al., 2001

Cache Valley Hodgden and McDonald, 1977

Cahone Mesa Lyons, 1958

Cane Creek Claypool, 1998; Morgan, 1992

Canyon East Horton and Gere, 1964

Castle Creek Peterson, 1973d

Castle Peak Colburn et al., 1985

Catlegate Hampton et al., 2000

Cave Canyon McBride and Rebne, 1997; Oltmans, 1995; Klusman et al., 1992

Cave Creek Sprinkle, 1999; Deming and Chapman, 1989; Couples et al., 1987; Edman and Surdam, 1984b

Cedar Rim Peterson, 1973e

Chalk Creek Hodgden and McDonald, 1977

Chapita Wells Miller, 1957

Cherokee Eby and Chidsey, 2001; McBride and Rebne, 1997

Chinle Wash Peterson and Hite, 1969

Cisco Dome Walton, 1956

Cisco Springs Walton, 1956



Cisco Wash	Morgan, 1999
Clay Basin	Baird, 1978; Hummel, 1969; Krueger, 1955; Fidler, 1950c
Clear Creek	Tripp, 1989, 1990b, 1991c,d; Walton, 1954, 1955; Edson et al., 1954
County	Naylor, 1957
Cow Hollow	Hodgden and McDonald, 1977
Coyote Creek South	Hegna, 1970
Danish Wash	Walton, 1956
Deadman	Grammer et al., 1996
Deadman Canyon	McBride and Rebne, 1997
Desert Creek	Peterson, 1966; Lauth, 1958; Herman and Barkell, 1957; Spalding, 1955
Desert Creek North	Herman and Barkell, 1957
Drunkard's Wash	Lamarre et al., 2001; Montgomery et al., 2001; Lamarre, 2000; Nelson, 2000; Robertson et al., 2000; Weichman, 2000; Barker and Pierce, 1999; Lamarre and Burns, 1997; Tripp, 1989
Duchesne	Morgan, 1997b; Bredehoeft et al., 1994; Naylor, 1957
East Mountain	Tripp, 1990b
Eight Mile Flat	Colburn et al., 1985
Elkhorn Ridge	Sprinkle, 1999
Farmington	Hodgden and McDonald, 1977
Fence Canyon	Peterson, 1973f
Ferron	Anderson et al., 1997; Tripp, 1990a, 1991a,b
Flat Canyon	Tripp, 1989, 1990b, 1991c,d; Walton, 1954, 1955
Flat Rock	Peterson, 1973g
Gordon Creek	Tripp, 1989; Walton, 1955
Gothic Mesa	Reid and Berghorn, 1981
Grassy Creek	Harnett, 1968
Grassy Trail Creek	Lutz and Allison, 1991, 1992; Peterson, 1972b
Hanging Rock	Shefte and Estes-Jackson, 2001
Harley Dome	Bon, 1999; Willis, 1991; Keebler, 1956
Hay Reservoir	Hendricks, 2001; Henry et al., 1999
Hells Hole	Moretti et al., 1992
Helper	Buck et al., 2001; Montgomery et al., 2001
Heron North	Montgomery et al., 1999; Chidsey and Eby, 1997; Chidsey et al., 1996
Hogback	Picard et al., 1968
Hogback Ridge	Walker, 1982
Horse Canyon	Johnson et al., 2000, 2001; Louden et al., 1999, 2000
Horseshoe Bend	Fouch et al., 1994; Peterson, 1973h
Indian Creek	Tripp, 1989, 1990b, 1991c,d
Ismay	Grammer et al., 1996; Dawson, 1988; Peterson and Hite, 1969; Peterson, 1966; Choquette and Traut, 1963; Elias, 1963; Carr and White, 1958
Joes Valley	Tripp, 1989, 1990b, 1991c,d
Kachina	Louden et al., 2000
Kiva	Grammer et al., 1996; Stewart, 1995
Lisbon	Cole and Moore, 1996; Fouret, 1996; Merrell, 1989; Stevenson and Baars, 1988; Segal et al., 1986; Parker, 1960, 1968, 1981; Smith and Prather, 1981; Albright, 1965; Parker, 1961; Budd, 1960
Lisbon Northwest	Miller, 1985; Mitchell, 1961
Lodgepole	Sprinkle, 1999
Long Canyon	Morgan, 1992a,b; Carlton, 1958
McElmo Creek	Lyons, 1958
Mexican Hat	Baars and Stevenson, 1982; Wengerd, 1955; McCoy et al., 1951
Monument Butte	Bereskin and Morgan, 2001; Morgan et al., 1998, 2000, 2001; Larson and Zellitti, 1997; Morgan, 1997c; Deo et al., 1996; Pawar and Deo, 1996; Pawar et al., 1996; Deo et al., 1994; Peterson, 1973d; Colburn et al., 1985
Mule	Chidsey and Eby, 1999; Montgomery et al., 1999; Chidsey et al., 1996
Mustang	Louden et al., 2000
Mustang Flat	Carroll, 1985
Myton Bench South	Morgan, 1997a

Myton South	Colburn et al., 1985
Natural Buttes	Shefte and Estes-Jackson, 2001; MacMillan, 1997b, 2000; Hewett and Spence, 1998; Schmoker et al., 1996; Fouch et al., 1994; Hartmann and MacMillan, 1992; MacMillan, 1992; Osmond, 1985, 1992; Shade and Hansen, 1992; Pittman et al., 1985; Gillespie, 1957
Naval Oil Sh. Res.#2	Silverman and Grove, 1997
Pariette Bench	Sweeney et al., 1987; Pittman et al., 1982; Peterson, 1972c
Patterson	Moriarty and Grundy, 1985; Martin, 1981
Peters Point	Fouch et al., 1994; Folsom, 1968; Osmond et al., 1968; Hendel, 1957
Pineview	Hull, 1999; Sprinkle, 1999; Romaine et al., 1996; Deming and Chapman, 1989; Sercombe, 1989; Abernathy, 1977; Conner and Covlin, 1977; Hodgden and McDonald, 1977; Kelly and Hine, 1977; Picard, 1977; Powers, 1977; Webel, 1977; Maher, 1976; Loucks, 1975
Pineview East	Hodgden and McDonald, 1977
Pineview North	Sercombe, 1989
Pleasant Valley	Colburn et al., 1985
Ratherford	Lyons, 1958
Recapture Creek	Herman and Barkell, 1957
Red Wash	Borer, 1998; Fouch et al., 1994; Kelly and Castle, 1992; Castle, 1990; Sweeney et al., 1987; Dobrin, 1977; Chatfield, 1972; Folsom, 1968; Osmond et al., 1968; Picard, 1957, 1967; Chatfield, 1965
Rock House	Fouch et al., 1994; Isbell, 1964
Rockwell Springs	Likarish et al., 1997
Roosevelt	Folsom, 1968; Rohr, 1957
Rozel Point	Kendall, 1994
Rozel Point West	Dolly and Mullarkey, 1996; Kendall, 1994; Bortz et al., 1985
Runway	Montgomery et al., 1999; Lorenz and Chidsey, 1998; Chidsey et al., 1996
Salt Wash	Morgan, 1994a; Peterson, 1972d
San Arroyo	Monsalve, 1972; Horton and Gere, 1964; Owen and Whitney, 1956
Southman Canyon	Osmond et al., 1968
Squaw Canyon	Dolly and Mullarkey, 1996; Grammer et al., 1996; Buckner and Groen, 1981
Sunnyside	Fouch et al., 1994
Tar Sand Triangle	Huntoon et al., 1994, 1999; Peterson, 1997; Fryberger, 1990
Tin Cup Mesa	Herrod and Gardner, 1988; Herrod et al., 1985
Turner Bluff	Carter, 1958
Upper Valley	Uphoff, 1997; Goolsby et al., 1988; Sharp, 1976; Peterson, 1973i; Campbell, 1969
Uteland Butte	Morgan et al., 2001
Virgin	Brandt et al., 1986; Bahr, 1963; Hauptman, 1952
Walker Hollow	Picard, 1957
White Mesa	Picard, 1959; Fenex and Lee, 1958; Lyons, 1958
Willow Creek West	Osmond, 2000c
Wonsits Valley	Castle, 1990
Yellow Creek	Geiser et al., 1988

## WYOMING

Wyoming encompasses some of the most hydrocarbon-rich basins in the Rocky Mountain region including the Green River, Bighorn, Wind River and Powder River basins. Accordingly the list of oil and gas fields is long. Most of the articles compiled in this index are from guidebooks published by the Wyoming Geological Association (WGA) since 1946. Although the time period of WGA publications is post-World War II, some guidebooks published before 1970 also include articles recording hydrocarbon exploration and development in Wyoming between 1890 and 1930. Much of this information is primary source material that was gathered from early wildcatters who have long since passed on.

The classic pre-World War II volume on Wyoming's hydrocarbon fields was "Petroleum and Natural Gas Fields in Wyoming" (Espach and Nichols, 1941). This volume contains outcrop descriptions, strike and dip data, analyses of oil, natural gas, and water, production data, structure maps, and general historical data that are not included in later field studies or in the Wyoming Oil and Gas Commission records.

Articles in the index span the time of several post-World War II phases of petroleum industry activity. Between 1946 and 1963 Wyoming was a fairly rank frontier area for petroleum exploration. The articles of this period are a rich source of data

and early interpretations for the many large fields that were discovered and exploited in this phase. Even as petroleum industry activity languished between 1963 and 1975, many articles synthesized the "state of the art" concerning what was known about the producing trends discovered and exploited in the 1950s. Lest we forget, Bell Creek Field (although mostly in Montana) was discovered in this "languishing" period; it set off a new understanding of stratigraphic traps in the Muddy Sandstone, which has been a prolific and persistent exploration target since then. Articles published during the oil boom years of 1975-1985 provide a rich compendium of information regarding "hot" exploration and exploitation areas. The boom period also saw the publication of several WGA oil and gas field symposia dedicated to summaries of all oil and gas fields within a given producing basin. Similar to the "languishing" period of 1963-1975, articles published from 1985 to present concentrate on synthesizing the huge amounts of data generated from fields discovered and exploited during the boom of 1975-1985. They also include important primary material on several large fields discovered and exploited in the post-1985 time period.

In terms of the cumulative oil produced, Wyoming ranks 6th among the states (after Texas, Alaska, California, Louisiana, and Oklahoma). A total of 63,828 wells had been drilled for oil and gas in the state through the end of 1997. Of these, 28,143 (44%) had produced oil and 6250 (10%) had produced gas. Gas production in Wyoming has been nicely summarized in the Gas Research Institute volume entitled "Atlas of Rocky Mountain Gas Reservoirs" organized by Broadhead and Robertson (1993).

Information on 14 of Wyoming's oil fields is included in Dolly and Mullarkey (1996). Fields discussed in the short papers in this volume are Bethlehem, Big Hand, Collums, Dripping Rock, Hawk Point, Fontenelle, L-X Bar, Lincoln Road, Mesa, Red Bird, Rozet, Slick Creek, Spotted Horse, and Table Rock. These papers include brief write-ups, structure maps, and a panel of wireline logs.

For a geologist new to Wyoming, the best reference for learning about Wyoming geology is Memoir 5, a two-volume set published by the Wyoming State Geological Survey in 1993 and appropriately titled "The Geology of Wyoming" (Snoke et al., 1993). For the oil and gas professional working in Wyoming, an essential reference is the Wyoming Oil and Gas Commission website: <http://wogcc.state.wy.us/>, which has unit maps, well locations, and production data for all wells in the state. Other good places to uncover oil and gas field information are the several oil and gas field symposia cited below. Those published since the mid-1980s provide the most complete compilations. It is difficult to select outstanding individual books cited within the index because so many have included seminal articles on Wyoming geology. In short, any person interested in a specific basin in Wyoming will find several WGA guidebooks published over the past 50 years that are dedicated to the unique stratigraphic, structural and hydrocarbon attributes of that basin.

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Dolly, E.D., and J.C. Mullarkey, eds., 1996, Hydrocarbon Production from Low Contrast, Low Resistivity Reservoirs, Rocky Mountain and Mid-Continent Regions: Log Examples of Subtle Pays: RMAG, 290 p. (Bethlehem, Big Hand, Collums, Dripping Rock, Hawk Point, Fontenelle, L-X Bar, Lincoln Road, Mesa, Red Bird, Rozet, Slick Creek, Spotted Horse, Table Rock)

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Adobe Town	McPeck, 1981
Adon Road	Williams and Pitts, 1997; Smith et al., 1996
African Swallow	Perkins et al., 2001a,b
Ag Farms	Smith and Larsen, 1997
Alkali Creek	Ciftci et al., 2001; Hurley et al., 2001; Aviantara, 1998
Allen Lake	Blackstone, 1994
Allen Lake East	Barlow, 1953a
Amkirk	Runge, 1968
Amos Draw	Perkins et al., 2001b; Jiao and Surdam, 1994; Martinsen, 1994; Martinsen et al., 1994; Maucione et al., 1994; Murray, 1994; Surdam et al., 1994; Odland et al., 1986, 1988; von Drehle, 1985
Andy	von Drehle, 1985
Anschutz Ranch East	White et al., 1990; Sercombe, 1989; Dow, 1988; Lelek, 1982 (see also listing under Utah)
Antelope East	Wellborn and Wold, 1993; Krampert, 1951e
Arch	Heasler and Surdam, 1992; Yin et al., 1992
Arminto	Skeen and Ray, 1983
Ash	Smith and Larsen, 1997; Gallivan and Handley, 1991
Ash Creek	Robinson and Barnum, 1986; Morgando, 1958; Reinhart, 1953
Ash Creek South	Morgando, 1958
Aspen	Powers, 1977; Hauptman, 1950
Avery Draw	Curry, 1986

Badger Basin	Buggenhagen, 1997; DeBruin, 1997; Heasler, 1997; Inks et al., 1997; Surdam and Jiao, 1997; Walker et al., 1995; Thompson, 1954
Badwater	Schmitt, 1975
Baggs	Turner, 1955
Baggs South	Colson, 1969; Cronoble, 1969; Foster, 1965; Parker, 1959; Turner, 1955
Bailey Dome	Garrett, 1951
Baldy Butte	Cramer and Stallings, 1998
Banjo Flats	Lane, 1970a
Barber Creek	Sabel, 1985; Sabins and Petersen, 1961
Barrel Springs	Garcia-Gonzalez and Surdam, 1992; Wanner et al., 1979
Basin	Fryberger, 1984; Hiestand, 1947
Basin Northwest	Fryberger, 1986
Baxter Basin	Andrew, 1965; Fidler, 1962; Krueger, 1955; Fidler, 1950a
Bear Creek	Perkins et al., 2001b
Beaver Creek	Siguaw et al., 1999; Johnson and Rice, 1993; Smith and Surdam, 1992; Hinton, 1957; Ross, 1957; Ewing, 1955; Hubley, 1948
Bell Creek	see listing for Montana
Bell Springs	Krampert, 1951a
Bessie Bottom	Sercombe, 1989
Big Hand	George, 1984
Big Hollow	Cardinal, 1970
Big Medicine Bow	Cardinal, 1970; Stone, 1966; Van Gilder, 1953; Veronda, 1951c
Big Muddy	Magara, 1975; Stone and Hoeger, 1973, 1975; Curry, 1954; Truchot, 1954; Olson, 1949
Big Piney	Tyler et al., 1997; Garcia-Gonzalez and Surdam, 1992; Doelger and Barlow, 1989; Ryer et al., 1987; Myers, 1977; Thomaidis, 1973; McDonald, 1973, 1976; Dunnewald, 1969; Gosar, 1960; Howe, 1955; Krueger, 1955, 1960
Big Polecat	Stone, 1993; Beyer, 1979; Pedry, 1975b; Thompson, 1954
Big Sand Draw	Jenkins, 1957
Billy Creek	Gwynn and Casper, 1963; Bramlette, 1949
Birch Creek	McDonald, 1973; Asquith, 1965, 1966; Shipp and Dunnewald, 1962
Bison Basin	Wellborn and Wold, 1993; Erickson, 1957; Krampert, 1951b
Black Bank	WGA Committee, 1970
Black Butte	Merewether, 1983
Black Mountain	Andrews and Higgins, 1984
Black Rock	Christenson, 1973
Blue Forest	Lausten, 1989
Blue Gap	Martinsen et al., 1995; Yin and Surdam, 1995
Bolton Creek	Curry, 1986
Bonanza	Kerr and Aviantara, 1999; Aviantara, 1998; Stone, 1985c, 1987, 1993; Moore, 1984; Orr, 1974; Lawson and Smith, 1966; Berry, 1952
Boone Dome	Skeen and Ray, 1983; Albanese, 1954
Borie	Clayton and Swetland, 1980; MacKenzie, 1971; McMinn, 1963
Brady	Montgomery, 1996a; Whalen, 1996; Folcik and Mead, 1995; Dolson et al., 1991; Krystinik, 1990; Knapp, 1978; Pacht, 1977; Picard, 1977b; Brock and Nicolaysen, 1975
Bridger Lake	Garvin, 1970; Parker, 1966
Brooks Ranch	Buskala, 1958
Bruff	Merewether, 1983; Winn and Smithwick, 1980; Picard, 1977a; Thomaidis, 1973
Buck Creek	Ahlbrandt et al., 1994; McBane, 1984
Buck Draw	Dutton and Willis, 1998; Ethridge et al., 1994; Sellars, 1992; Sellars and Hawkins, 1992; Schenewerk and Heath, 1989; Stonecipher, 1989; Michael and Merin, 1986; Hawkins and Formhals, 1985
Buck Draw North	Fulco, 1999
Buffalo Basin	Erickson, 1957
Bull Springs	Wellborn and Wold, 1993
Bullfrog	Skeen and Ray, 1983; Sprague, 1983
Bunker Hill	Krampert, 1951c
Burke Ranch	Swirczynski, 1958

Burnt Hollow	Tenney, 1968
Burnt Wagon	Swirczynski, 1978a
Bush Lake	Van Horn and Shannon, 1989
Butcher Knife Springs	Reisser and Blanke, 1989; Picard, 1977a; Thomaidis, 1973
Byron	Kerr and Aviantara, 1999; Aviantara, 1998; Johnson and Keighin, 1998; Williams and Pitts, 1997; Shebl, 1995; Stone, 1967
Byron South	Talbot, 1983
Cabin Creek	Wakefield, 1958
Cambridge	Vargo et al., 2000; Williams and Pitts, 1997
Camp Creek	George, 1969; Allen, 1966
Canyon Creek	Yin and Surdam, 1995; Garcia-Gonzalez and Surdam, 1992; Gras, 1955
Carson	Stone, 1972
Carter Creek	Dickinson and Matthews, 1993; Sieverding and Harris, 1991; Sieverding and Royce, 1990; Benson, 1989; Harris et al., 1988; Couples et al., 1987; Bartberger, 1985; Budai, 1985; Bishop, 1982; Hoffman and Balcells-Baldwin, 1982; Hoffman and Kelly, 1981
Casper Creek North	Katherman, 1958
Casper Creek South	Montgomery, 1996c; Cole and Mullen, 1992; Davis and Benson, 1992; Stevenson and Mullen, 1991; Skeen and Ray, 1983; Lawson, 1954a,b
Cave Gulch	Natali et al., 1999, 2000; Dea et al., 1998; McPeck et al., 1997, 1998
Cellars Ranch	Moore, 1984b, 1986; Stone, 1986b
Chan	Oldham, 1997; Henderson, 1991; Stone, 1972
Chan Southeast	Stone, 1972
Chimney Butte	Dutton and Hamlin, 1992
Church Buttes	DeBruin, 1995; Dutton and Hamlin, 1992; Laubach et al., 1992; Reisser and Blanke, 1989; Merewether, 1983; Clark, 1981; Myers, 1977; Picard, 1977a; Thomaidis, 1973; Verville et al., 1973; Fidler, 1962; Hale, 1962; Shipp and Dunnewald, 1962; Krueger, 1955; Fidler, 1950b
Circle Ridge	Anderson and O'Connell, 1993; Anderson, 1992; McCoy et al., 1951; Olson, 1948
Clareton	Baker, 1962
Clear Creek	Dickinson and Matthews, 1993; Johnson, 1991; Gibson, 1987; Alexandar, 1986; Frank et al., 1982; Frank and Gavlin, 1981
Coal Gulch	Burch and Cluff, 1998; Martinsen et al., 1995; Surdam, 1992; McPeck, 1981
Coalbed Methane	Montgomery, 1999
Cole Creek	Smith and Surdam, 1992; Tower, 1992; Curry, 1986; Moore, 1984a
Cole Creek South	Moore, 1984a; Truchot, 1954
Collums	Stone, 1972
Coon Creek	Stone, 1993
Cooper	Lockridge, 1970a
Cooper Cove	Cardinal, 1970; DeChadenedes, 1953
Cooper Reservoir	Boyd, 1969
Corral Creek	Johnson, 1988
Cottonwood Creek	Johnson and Keighin, 1998; Inden and Coalson, 1996; Prost, 1996; Shebl, 1995; Coalson et al., 1994; Gaz, 1993; Parker, 1993; Coalson and Inden, 1990a,b; Inden and Anderson, 1986; Allison, 1984, 1986; Peterson, 1983; Herrod, 1980; McCaleb and Willingham, 1967; Willingham and McCaleb, 1966; Pedry, 1957, 1970, 1975a
Cottonwood Ck North	Pedry, 1975a
Cow Creek	Holton et al., 1989; Merewether, 1983; Picard, 1977b; Rogers, 1971
Coyote Creek	Sellars and Hawkins, 1992; Knox, 1989; Schultz and Coppinger, 1989; Ryer and Gustason, 1985; Harris, 1976; Garvin, 1971; Chisholm, 1970; Berg, 1968; Runge, 1968; Bolyard and MacGregor, 1966; Gries, 1962; Hoeger, 1962; Jones, 1962; Miller, 1962; Trotter, 1962
Coyote Creek South	Sellars and Hawkins, 1992; Schultz and Coppinger, 1989; Ryer and Gustason, 1985; Hegna, 1968
Craven Creek	Evans and Barrett, 1977
Crooks Creek	Wellborn and Peffer, 2000; Wellborn and Wold, 1993
Crooks Gap	Wellborn, 1999; Smith and Surdam, 1992; Krampert, 1951d
Dallas Dome	Willis and Groshong, 1993; Ptasynski, 1957; Krambert, 1948a
Danker North	Thompson, 1954
Dead Horse Creek	Gay, 1997; Sabel, 1985; Moore, 1975; Sabins and Petersen, 1961; Headley, 1958; Jones, 1958; Lawton, 1958

Deadman Creek	Arro, 1976a
Deaver	Pedry, 1975b
Delaney Rim	Robinson, 1993
Derby Dome	Willis and Groshong, 1993; Kirkwood, 1957; Ptasynski, 1957
Desert Springs	Martinsen et al., 1995; Mulholland, 1994; Garcia-Gonzalez and Surdam, 1992; McPeck, 1981; Clark and Guy, 1972; Weimer, 1965; May, 1961; Heppe, 1960; Dahm, 1959
Desert Springs West	Heppe, 1960
Dewey Terrace	Tromp et al., 1981
Diamond Ring Ranch	Pritchard, 1993; Cardinal, 1970
Dillinger Ranch	Welsh and Taylor, 1985; Moore, 1975; Parker, 1967; Weldon, 1965
Dixon	Tyler et al., 1997
Dobrenz Ranch	DeBruin and Jones, 1989
Donkey Creek	Sellars and Hawkins, 1992; Knox, 1989; Ryer and Gustason, 1985; Van West, 1972; Chisholm, 1970; Runge, 1968; Hoeger, 1962; Jones, 1962; Miller, 1962; Trotter, 1962; Barkley and Gosman, 1958; Jones, 1958
Donkey Creek North	Frederick et al., 1995; Hoeger, 1962; Trotter, 1962
Donkey Creek South	Trotter, 1962
Douglas	Bauer, 1989
Douglas South	Bauer, 1989
Dripping Rock	Martinsen, 1998; Martinsen et al., 1995; Surdam et al., 1995; Yin and Surdam, 1995; Martinsen and Christensen, 1992; Holton, 1989; Holton et al., 1989
Dry Creek	Johnson and Keighin, 1998
Dry Piney	Dunnewald and Gorton, 1977; Kelly and Hine, 1977; Pacht, 1977; Picard, 1977b; Webel, 1977; McDonald, 1973; Shipp and Dunnewald, 1962; Lackey, 1960; Murray, 1960
Dubois	Stone, 1972
Dugout	Harding, 1974
Dutton Anticline	Stone, 1966
Dutton Creek	Cardinal, 1970; DeChadenedes, 1953
Dutton Creek North	Cardinal, 1970
Echo Springs	Horn and Schrooten, 2001a,b; Zavala et al., 2001; Burch and Cluff, 1997, 1998; Smith, 1998; Favret and Clawson, 1997; Surdam, 1997; Iverson et al., 1995; Martinsen et al., 1995; Yin and Surdam, 1995; Hendricks, 1994; Garcia-Gonzalez and Surdam, 1992; Martinsen and Christensen, 1992; Surdam, 1992; Tilden, 1985; McPeck, 1981
Edsel	Bean et al., 1984; Fryberger, 1984
Elk Basin	Loucks, 1999; Engelder et al., 1997; Heasler, 1997; Lorenz et al., 1997; Carr-Crabaugh and Dunn, 1996; Sonnenfeld, 1996; Shebl, 1995; Stone, 1993; McCaleb, 1988; Ayler and Brechtel, 1987; Johnson and Lindsley-Griffin, 1986; Meyer and McGee, 1985; Stone, 1983, McCaleb and Wayhan, 1969; Stone, 1967; Lawson and Smith, 1966; Rea, 1962; Wetzell, 1954; McCabe, 1947, 1948
Elk Basin South	Johnson and Keighin, 1998; Keefer, 1998; Shebl, 1995; Stone, 1991a, 1993; Bikis and Anderson, 1986
Elk Draw	von Drehle, 1985
Elk Mountain	Stone, 1966, 1984
Emerald	Meyer and Starck, 1992; Swirckzynski, 1984b
Emigrant Springs	Link, 1999
Enigma	Arbuckle and Riggs, 1996
Fabian Ditch	Stonecipher et al., 1997
Felix	von Drehle, 1985
Fence Creek	Stone, 1972
Ferris	McCoy, 1951
Fiddler Creek	Baker, 1962; McCoy et al., 1951
Flat Top	Blackstone, 1988; Curry, 1976; Doeringsfeld and Ivey, 1964
Fontenelle	Stonecipher et al., 1997; Martinez and Ruffin, 1994; Dutton and Hamlin, 1992; Myers, 1977
Forgey	Kentta, 1974, 1978
Fourbear	Stone, 1996
Four Horse	Schultz and Coppinger, 1989
Four Mile	Borah, 1997



Fourteenmile Creek	Johnson and Keighin, 1998; Talbot, 1998
Francs Fork	Stone, 1996
Frannie	Shebl, 1995; Stone, 1991a; Pedry, 1975b; Stone, 1967; Lawson and Smith, 1966; Curtis, 1954; Brainerd and Curtis, 1947
Frenchie Draw	Johnson and Rice, 1993; Liro, 1993; Liro and Pardus, 1990; Meyer and McGee, 1985; Normark, 1978; Lockridge, 1970b
Frewen	Lorenz et al., 1996
Fuller Reservoir	Johnson and Keighin, 1998; Johnson and Rice, 1993; Katz and Liro, 1993; Robertson, 1984; Ray, 1982; Pirner, 1978
G.P. Dome	Krampert, 1951f
Garland	Loucks, 1999; Johnson and Keighin, 1998; Lorenz et al., 1997; Shebl, 1995; Demiralin et al., 1994; Stone, 1993; Beyer, 1979; Stone, 1967
Gas Draw	von Drehle, 1985; Lin, 1981; Stone, 1972; Egbert and Armstrong, 1970; Biggs and McGregor, 1969
Gebo	Shebl, 1995; Paylor et al., 1989; Beyer, 1979; Mees and Bowers, 1952; Summerford, 1952
George Ranch	Jones, 1962
Glasscock Hollow	Bruce, 1988
Glo North	Allan and Ray, 1988
Golden Dome	Johnson and Keighin, 1998
Golden Goose	Peterson, 1983
Gooseberry	Hennings and Hager, 1996
Graham Reservoir	Stonecipher et al., 1997
Grass Creek	Stone, 1999b; Mitra and Mount, 1998, 1999; Shebl, 1995; Smith and Surdam, 1992; Stone, 1967, 1993; McCanne, 1947
Grass Creek East	Mitra and Mount, 1998, 1999
Gravel Unit	Myers, 1977
Great Divide	Van Horn and Shannon, 1989
Greybull	Talbot, 1983
Grieve	Mitchell, 1976, 1978; Hurd, 1970; Lawson, 1962
Grieve North	Pritchard, 1993; Smith and Surdam, 1992
Guthery	Van West, 1972
HA Creek	Mitchell and Rogers, 1993
Halfmoon	Olenick et al., 1992, 1993; Stone, 1985a,d
Halverson	Moore, 1975, 1983; Gibson, 1969; Berg and Tenney, 1967; Hudson, 1963; Jones, 1962
Hamilton Dome	Stone, 1999b; Mitra and Mount, 1998, 1999; Inden and Coalson, 1996; Coalson and Inden, 1990; Thompson, 1981; Berg, 1976a; Stone, 1967; Summerford, 1952; Wyoming Geological Assoc., 1952; Krampert, 1947a
Hamm	Williams and Pitts, 1997; Doll and Hanson, 1987
Happy Springs	Wellborn and Wold, 1993; Helmke, 1951
Hartzog Draw	Sullivan et al., 2001; Gay, 1997; Holton et al., 1989; Ranganathan and Tye, 1986; Hearn et al., 1984; Momper and Williams, 1984; Hunt and Hearn, 1982; Martinsen and Tillman, 1978; Seeling, 1978
Hatfield Dome	Post, 1955; Veronda, 1951b
Hawk Point	James, 1989; Jorgensen and James, 1988
Hawk Springs	Ahlbrandt and Groen, 1987
Haybarn	Katz and Liro, 1993; Liro, 1993; Andrew, 1985; Robertson, 1984
Hay Creek	DeBruin and Jones, 1989
Hay Reservoir	Anderson, 1995; Robinson, 1993; Van Horn and Shannon, 1989; McPeek, 1981
Haystack	McPeek, 1981
Heart Mountain	Johnson and Keighin, 1998
Heldt Draw	Seeling, 1978; Crews et al., 1976; Davis, 1976
Heldt Draw East	Crews et al., 1976
Henry	Warren et al., 1993; Dutton and Hamlin, 1992; Muller and Coalson, 1989; Reisser and Blanke, 1989; Ryer et al., 1987
Herrick	West, 1953a
Hidden Dome	Inden and Coalson, 1996; Pedry, 1975a
Higgins	McPeek, 1981

High Road Tyler and Modroo, 1986  
Hilight Perkins et al., 2001b; Donovan, 1995; Chen et al., 1994; Heasler et al., 1994; Martinson, 1994; MacGowan et al., 1994; Maucione et al., 1994; Mitchell and Rogers, 1993; Gries et al., 1992; Dolson et al., 1991; Wheeler et al., 1988; Michael and Merin, 1986; Moore, 1985; von Drehle, 1985; Momper and Williams, 1984; Berg, 1976b; Stone, 1972; Prescott, 1970

Hoback Loose, 1990  
Hogsback Webel, 1987; Dunnewald and Gorton, 1977; Kelly and Hine, 1977; Webel, 1977; Shipp and Dunnewald, 1962; Michael, 1960; Murray, 1960

Hogsback South Hamlin, 1996; Laubach et al., 1992  
Horne Brothers Stone, 1966; Carr, 1953; Eaton, 1952  
Horne Valley Cardinal, 1970  
Horse Center Stone, 1985a  
Horse Creek Andrews and Higgins, 1984; Clayton and Swetland, 1980; MacKenzie, 1971  
House Creek Higley and Vaughan, 1992; Curry, 1986; Moore, 1985; Sabel, 1985; Hobson et al., 1982; Anderman, 1976; Crews et al., 1976; Berg, 1975b

Hunter Ranch Stone, 1970b, 1972  
Indian Tree Smith and Larsen, 1997  
Iron Creek Edgerly, 1989; Dayhill, 1968  
Jepson-Holler Draw Wheeler and Gustason, 2001  
Joe Creek von Drehle, 1985  
Jonah Surdam et al., 2001a,b; Eberhard et al., 2000; Robinson, 2000a; Warner, 1998, 1999, 2000; Bowker and Robinson, 1997; Evans and Foulk, 1997; Flack et al., 1997; Finch et al., 1996, 1997a,b; Montgomery and Robinson, 1997; Robinson and Evans, 1997; Warner, 1997a,b, c; Robinson et al., 1996

Kaye Curry, 1976, 1986; Sabel, 1985; Isbell, 1972  
Kiehl Arro, 1976b  
Kiehl West Williams and Pitts, 1997; Clark et al., 1988  
Kitty Martinson, 1994; Maucione et al., 1994; Surdam et al., 1994; Odland et al., 1986; von Drehle, 1985; Lin, 1981; Largberg, 1980; Stone, 1972; Clark, 1970a,b; Egbert and Armstrong, 1970; Biggs and McGregor, 1969; Swirczynski, 1968; Wulf, 1968

Kummerfeld Sellars and Hawkins, 1992; Ryer and Gustason, 1985; Miles, 1963; Hoeger, 1962; Jones, 1962; Miller, 1962; Trotter, 1962

LaBarge Knight et al., 2000; DeBruin, 1995; Lorenz, 1995; Garcia-Gonzalez and Surdam, 1992; Heasler and Surdam, 1992; Laubach et al., 1992; Martinsen and Christensen, 1992; Doelger and Barlow, 1989; Webel, 1987; Evans and Barrett, 1977; Myers, 1977; McDonald, 1973, 1976; Thomaidis, 1973; Dunnewald, 1969; Hale, 1962; Shipp and Dunnewald, 1962; Gosar, 1960; Krueger, 1955, 1960; Murray, 1960; Christensen and Marshall, 1950

LaBarge North Maberry et al., 1997, 1998; Howe, 1955; Krueger, 1955, 1960  
Lake Creek Hoffman and Powell, 1996; Stone, 1967; Summerford, 1952  
Lake Creek NW Miller and Stiteler, 1952  
Lance Creek Ahlbrandt and Fox, 1997; Clayton et al., 1997; Blackstone, 1988; Momper and Williams, 1984; Tromp et al., 1981; Hubbell and Wilson, 1963; McCanne, 1949

Lander Love, 1978; Krambert, 1948c  
Last Gap Lausten, 1989  
Lazy B Perkins et al., 2001b; Martinsen, 1994; Martinsen et al., 1994; Gustason, 1988  
Lightning Creek Ahlbrandt and Fox, 1997  
Lincoln Road Stonecipher et al., 1997; Lausten, 1989; Schultz and Lafollette, 1989; Stonecipher et al., 1984; Winn and Smithwick, 1980

Little Buck Creek McCanne, 1948  
Little Buffalo Basin Hinson, 1997; Shebl, 1995; Emmett et al., 1972  
Little Grass Creek Inden and Coalson, 1996  
Little Laramie Stone, 1993; West, 1953a  
Little Polecat Stone, 1993; Thompson, 1954  
Little Sand Draw Fanshawe, 1993; Hurley, 1993; Garfield et al., 1992  
Little Snake Colson, 1969  
Lodgepole Gustason and Ryer, 1985; Hoeger, 1962  
Lone Cedar King, 1988

Lone Tree Creek	Schultz and Coppinger, 1989; Gustason and Ryer, 1985; Hoeger, 1962; Miller, 1962
Lost Creek	Van Horn and Shannon, 1989
Lost Dome	Stone, 1999a
Lost Soldier	Brokmeyer et al., 1996; Wellborn and Wold, 1993; Dolson et al., 1991; McGee et al., 1989; Schmechel and McGuire, 1985; Pott and DeVore, 1951; Krampert, 1949
Luckey Ditch	Reisser and Blanke, 1989
Madden	Jobe et al., 2001; Johnson and Keighin, 1998; Jellison et al., 1997; Moore and Hawkins, 1997; Hawkins et al., 1993; Johnson and Rice, 1993; Blackstone, 1990; Brown and Shannon, 1989; Doelger and Barlow, 1989; Dunleavy and Gilbertson, 1986; Meyer and McGee, 1985; Ray and Keefer, 1985; Reid, 1978a,b; Schmitt, 1975; VanDorsten, 1970b; Barrett and Hubley, 1969
Mahoney	McCoy, 1951; McCoy et al., 1951
Mandersson	Gray and Head, 2000; Gray et al., 1999; Johnson and Keighin, 1998; Long, 1997; Orr, 1974; Harris, 1955; Harris, 1952c
Marianne	Wellborn, 1981
Marshall	Stone, 1985c
Maverick Springs	Stone, 1993; Olson, 1948
Maysdorf	Oltmans, 1995; Andrew, 1985; George, 1984
McCullough Peak	Johnson and Finn, 1998; Johnson and Keighin, 1998
McDonald Draw	McDonald, 1973
Meadow Creek	Padden, 1958
Meadow Creek North	Myers, 1956
Meeteetsee	Wolff and Roy, 1984
Megas	Dutton and Hamlin, 1992
Mellott Ranch	Stewart, 1969b
Mellott West	Schenk et al., 1993; Schenk, 1990; Schmoker and Schenk, 1988
Mickelson Creek	Webel, 1987; Williams, 1986
Middle Dome	Lawson and Smith, 1966
Middle Mountain	Weber, 1971; Olson, 1955
Mill	Stone, 1972
Miller Creek	Sellars and Hawkins, 1992; Ryer and Gustason, 1985; Harris, 1976; Berg, 1968; Truchot, 1963; Hoeger, 1962; Jones, 1962; Miller, 1962
Monument Butte	Lausten, 1989
Monument Valley	McPeck, 1981
Moorcroft	Stone, 1972; Mettler, 1966
Moorcroft West	Sellars and Hawkins, 1992; Schultz and Coppinger, 1989; Mettler, 1968; Wakefield, 1958
Muddy Ridge	Long and Kundert, 2000; Flores and Keighin, 1993; Johnson and Rice, 1993; Keefer and Johnson, 1993; Nichols and Flores, 1993
Mule Creek	Ahlbrandt et al., 1994
Mulligan Draw	Martinsen, 1998; Martinsen et al., 1995; Yin and Surdam, 1995
Murphy Dome	Stone, 1967; Lawson and Smith, 1966; Summerford, 1952
Mush Creek	Baker, 1962; Summerford et al., 1950; Summerford et al., 1949
Nitchie Gulch	Crowson, 1970
No Water Creek	Garvin, 1971; Anonymous, 1970; Lane 1970b
North Fork	Parker, 1993; Moore, 1984b, 1986; Stone, 1986b; Berg and Tenney, 1967; Rea, 1958; Mallory, 1952
Notches Dome	Meyer and Starck, 1992; Skeen and Ray, 1983; Redman, 1954
Nowood	Orr, 1974; Lawson and Smith, 1966
O'Brien Springs	Picard, 1977b
Oedekoven	Oldham, 1997; Henderson, 1991; DeBruin and Jones, 1989; Stone, 1972; Egbert and Armstrong, 1970; Biggs and McGregor, 1969
Oil Springs	Blackstone, 1994
Okie Draw	Meyer and Starck, 1992
Old Woman	Bollenbacher, 1958
Oregon Basin	Hall et al., 1997; Heymans, 1997; Whisonant and Hall, 1997; Shebl, 1995; Stone, 1985a,d, 1993; Gries, 1981; Morgan et al., 1978; Stone, 1967; Walton, 1947
Oregon Basin North	Williams and Pitts, 1997
Oregon Basin South	Heymans, 1998; Cordiner and Livingston, 1977; Lawson and Smith, 1966

Orpha	Bauer, 1989
Osage	Baker, 1962
Paintrock	Geiser et al., 1988; Stone, 1985c
Painter Reservoir	Ring et al., 1999; Tillman, 1989; Frank et al., 1982; Lamerson, 1982; Frank and Gavlin, 1981; Lamb, 1980a,b
Painter Reservoir East	Weatherl, 1998; Johnson, 1991; Singdahlson, 1991; Creek and Schrader, 1985; Frank et al., 1982; Lamerson, 1982; Frank and Gavlin, 1981
Pass Creek	Stone, 1984
Patrick Draw	Iverson et al., 1995; Martinsen et al., 1995; Yin and Surdam, 1995; Slatt et al., 1995; Hendricks, 1994; Chang et al., 1993; Arp, 1992; Garcia-Gonzalez and Surdam, 1992; Martinsen and Christensen, 1992; Yin et al., 1992; Keighin et al., 1989; Ryder et al., 1989; Scott et al., 1989; Richers et al., 1982, 1986; McPeck, 1981; Christenson, 1973; McCubbin and Brady, 1969; Weimer, 1965, 1966; Burton, 1961; Lawson and Crowson, 1961; Heppe, 1960
Paul	Stone, 1972
Pavillion	Flores and Keighin, 1993; Johnson and Rice, 1993; Keefer and Johnson, 1993; Ray, 1982; Bjorklund, 1978; Single, 1969
Payne	Mitchell and Rogers, 1993
Pedro	Baker, 1962
Pheasant	Borah, 1997; Amsbury, 1967
Pickrel Ranch	Van West, 1972
Pilot Butte	Lane, 1957
Pine Mountain	Skeen and Ray, 1983
Pine Tree	Wheeler and Gustason, 2001
Pinedale	Robinson, 2000b; Finch et al., 1997a; Fagan, 1996; Blackstone, 1993; Heasler and Surdam, 1992; Charpentier et al., 1986; Law and Dickinson, 1985; Dolenc, 1973; Martin and Shaughnessy, 1969; Jenkins, 1955
Pineview	Jones and Drozd, 1983; Conner and Covlin, 1977
Pioneer	Colson, 1969; Foster, 1965
Pitchfork	Carr-Crabaugh and Dunn, 1996; Inden and Coalson, 1996; Shebl, 1995; Stone, 1993; Peterson, 1983; Coe, 1967
Poison Draw	Gay, 1997; Curry, 1986; Sabel, 1985; George, 1974
Poison Spider	Edgerly, 1989; Skeen and Ray, 1983; Lawson, 1954a
Poison Spider West	Clark, 1978; Beasley, 1954
Porcupine	Mitchell and Rogers, 1993; Sabel, 1985
Powder River	Skeen and Ray, 1983
Powell	Ethridge et al., 1994; Heasler et al., 1994; Maucione et al., 1994; Curry, 1986; Hando, 1976
Powell South	Johnson et al., 1995
Prairie Creek	Stone, 1972
Prep	Stone, 1972
Prong Creek	Heisey, 1963
Prong Creek West	Mack and Smith, 1997; Gallivan and Handley, 1991
Quealy Dome	Stone, 1995; Blackstone, 1984, 1986; Stone, 1966, 1985b; Gries, 1983; Cardinal, 1970; West, 1953b
Rainbow Ranch	Ware, 1963
Rainbow Ranch N	Williams and Pitts, 1997; Smith, 1995; Fielding et al., 1994
Ralston	Thompson, 1954
Rattlesnake	Anonymous, 1970; Lane, 1970c
Raven Creek	Smith and Larsen, 1997; Fryberger, 1984, 1986; Welsh and Taylor, 1985; Markert and Al-Sahaieb, 1984; Tranter and Kerns, 1972; Van West, 1972; Lucken, 1969; Allen, 1966; Tranter, 1963; Jones, 1962; Trotter, 1962
Rawhide Butte	Law et al., 1991
Recluse	Oldham, 1997; Henderson, 1991; Lin, 1981; Dalziel and Donovan, 1980; Meckel and Nath, 1977; Berg, 1976c; Shelton, 1972; Stone, 1972; Woncik, 1972; Egbert and Armstrong, 1970; Biggs and McGregor, 1969; Woncik, 1969; Hinton, 1968; Wulf, 1968
Red Bird	Ahlbrandt and Fox, 1966, 1997; Clayton et al., 1997; Ahlbrandt et al., 1994; Anonymous, 1971
Red Desert	Christenson, 1973
Red Springs	Stone, 1967

Reel	Markert and Al-Sahaieb, 1984
Reno & Reno East	Lange, 1976b; Moore, 1975; Amsbury, 1967
Rex Lake	Cardinal, 1970; Barlow, 1953b
Right-A-Way	Mack and Smith, 1997
Riverton Dome	Estes Jackson et al., 2000, 2001; Stookey et al., 2001; Surdam et al., 2000a,b; Siguaw et al., 1999; Johnson and Rice, 1993; Keefer and Johnson, 1993; Agatson, 1957; Hinton, 1957
Riverton East	VanDorsten, 1970a
Road Hollow	Boettcher et al., 1984
Robinson Ranch	Welsh and Taylor, 1985
Rock River	Cardinal, 1970; Espach and Biggs, 1953
Rock Springs	Zavala et al., 2001
Rocky Ford	Tenney, 1968
Rocky Point	Kearns and Wilkins, 1972
Ross	Hando, 1976
Rourke Gap	Schenk et al., 1993; Fryberger, 1984, 1986, 1990; George, 1984
Rozet	Vinopal, 1997; MacGowan et al., 1994; von Drehle, 1985; Achauer, 1983; Stone, 1972; Biggs and McGregor, 1969; Waterman, 1962
Rozet East	Van West, 1972
Rozet South	Achauer, 1980
Ruff Draw	Henderson, 1991
Rule	Mack and Smith, 1997
Ryan	Martinsen, 1994; Surdam et al., 1994;
Ryckman Creek	Dickinson and Matthews, 1993; McGee et al., 1989; Gibson, 1987; Williams and Dixon, 1985; Zielinski et al., 1985; Jones and Drozd, 1983; Nichols and Jacobson, 1982; Lamerson, 1982; Frank and Gavlin, 1981; Abernathy, 1977; Conner and Covlin, 1977; Kelly and Hine, 1977; Pacht, 1977; Webel, 1977
Saddle Rock	Pritchard, 1993
Sage Creek	Shebl, 1995; Stone, 1993; Erslev, 1985; Spang et al., 1985; Pedry, 1975b; Harnett, 1968; Stone, 1967; Lawson and Smith, 1966; Elmer, 1959; Kirkwood, 1957
Sage Creek North	Willis and Groshong, 1993; Kirkwood, 1957; Lane, 1957
Sage Creek West	Pedry, 1975b
Sage Spring Creek	Mack and Warren, 1984; Johnson, 1958
Salt Creek	Billo, 1996; Hansley and Nuccio, 1992; Edgerly, 1989; Curry, 1986; Meyer and McGee, 1985; Momper and Williams, 1984; Barlow and Haun, 1966, 1970; Mallory, 1949
Salt Creek East	Stone, 1986b; Moore, 1975; Hillis, 1958
Salt Wells	House, 1955
Sand Creek	Harris, 1952a
Sand Draw	Edgerly, 1989; Krambert, 1948b
Sand Draw South	Taylor, 1957
Sand Dunes	Perkins et al., 2001b
Sand Mesa	Johnson and Rice, 1993; Keefer and Johnson, 1993
Sandbar (East & West)	Stone, 1972; Stone, 1970a; Biggs and McGregor, 1969
Sapphire	von Drehle, 1985
Savery	Beer and Repp, 1955
School Creek	Mitchell and Rogers, 1993
Schrader Flats	Picard, 1978; Jenkins, 1971
Sellers Draw	Johnson and Finn, 1998
Semlek West	Tholstrom, 1976
Seven-Mile Gulch	Lausten, 1989; Pritchett, 1985; Gries, 1983; Cardinal, 1970
Shannon	Parker, 1958
Shawnee	Blackstone, 1988; Headley, 1958
Shawnee Creek	Bauer, 1989; McCoy et al., 1951
Sherard Dome	Krampert, 1951g
Sherwood	Parker, 1993; Paape, 1958
Shippy	Specht, 1988
Shoshone	Love, 1978

Shute Creek Stonecipher et al., 1997; Johnson et al., 1995; Stonecipher et al., 1984; Winn and Smithwick, 1980; Myers, 1977

Siberia Ridge Evans et al., 2000, 2001; Sturm et al., 2001; Clark et al., 1999; Martinsen et al., 1995; Garcia-Gonzalez and Surdam, 1992; McPeck, 1981

Silo Claypool, 1998; Oldham, 1996; Svoboda, 1995; Brown and Johnson, 1993; Sonnenberg and Weimer, 1993; Davis and Benson, 1992; Lacy et al., 1992; Stark, 1992; Stell and Brown, 1992; Merin and Moore, 1986

Silver Tip Johnson and Lindsley-Griffin, 1986; Stone, 1967; Thompson, 1954; McCoy et al., 1951

Silver Tip South Keefer, 1998; Stone, 1975, 1993

Simpson Ridge Veronda, 1951d

Skull Creek Janeczko, 1979; Lane, 1970; Baker, 1962; Jones, 1958; Summerford et al., 1950

Slattery Schoeling and Mark, 2000; Sheppy, 1986; Van West, 1972

Slick Creek Coalson and Inden, 1990; Anonymous, 1970; Lane, 1970d; Harris, 1952b

Soda Wells East Stone, 1972; Stewart, 1969a

South Fork Lane, 1970e

South Glenrock Gries et al., 1992; Blackstone, 1988; Gries, 1983; Magara, 1975; Stone and Hoeger, 1973, 1975; Curry and Curry, 1972; Runge, 1968; Curry, 1954; Curry and Curry, 1954

Spearhead Ranch Curry, 1986; Hawkins and Formhals, 1985; Winn et al., 1983; Merewether and Claypool, 1980; Tillman and Almon, 1977; Lange, 1976a; Prescott, 1975

Spring Creek Peterson, 1983; Stone, 1967

Spring Valley Powers, 1977; Hauptman, 1950

Springen Ranch Surdam et al., 1994; Stone, 1972; VanDorsten, 1971

Springer Ahlbrandt and Groen, 1987

Stagecoach Draw Caldero-Baird et al., 2001; Kovach et al., 2001a,b

Standard Draw Horn and Schrooten, 2001a,b; Burch and Cluff, 1997, 1998; Smith, 1998; Shaver and Towler, 1997; Surdam, 1997; Iverson and Surdam, 1995; Iverson et al., 1995; Martinsen et al., 1995; Yin and Surdam, 1995; Garcia-Gonzalez and Surdam, 1992; Martinsen and Christensen, 1992

Star Corral Anonymous, 1969

State Line Colson, 1969

Steamboat Butte Wager, 1993; Picard, 1977b; Lane, 1957; McCabe and Walker, 1948

Steinle Ranch Perkins et al., 2001b; Kolhaas, 1982; Reid, 1976

Stewart Van West, 1972

Store Stone, 1972

Storm Shelter Stonecipher et al., 1984; Winn and Smithwick, 1980; Myers, 1977;

Sulphur Creek Powers, 1977; Hauptman, 1950

Sun Ranch Tillman, 1998; Pritchard, 1993

Sunshine North Shebl, 1995; Andrews and Higgins, 1984

Sussex Holland et al., 1986; Headley, 1958; Padden, 1958; Parker, 1958

Sussex West Harding, 1974

Swan Lausten, 1989; Ryer et al., 1987

Swan West Schultz and Lafollette, 1989

Table Rock Dickinson, 2001; Vinopal et al., 1999; Purcell and Huck, 1998; Martinsen et al., 1995; Russell and Stone, 1995; Surdam et al., 1995; Yin and Surdam, 1995; Mulholland, 1994; Robinson, 1993; Yin et al., 1992; Ryder et al., 1989; Dickinson, 1992; Garcia-Gonzalez and Surdam, 1992; Heasler and Surdam, 1992; Martinsen and Christensen, 1992; McPeck, 1981; Colson, 1969; Weimer, 1965; Mees et al., 1961; Heppe, 1960; White, 1955

Table Rock SW White, 1955

Taylor Ranch Reisser and Blanke, 1989

Teapot Dome Cooper and Goodwin, 1998; Chenboonthai and Hazlett, 1997; Fausnaugh, 1997; Giangiacomo et al., 1997; Williams and Pitts, 1997; Doll et al., 1995; Olsen et al., 1993; Hansley and Nuccio, 1992; Beinkafner, 1986; Chappelle et al., 1986; Curry, 1977

Teapot East Eaton, 1958

Tepee Flats Blackstone, 1990; Ray and Berg, 1985; Gries, 1983; Skeen and Ray, 1983; Sprague, 1983

Terry Wellborn, 1975

Timber Creek Welsh and Taylor, 1985; Van West, 1972; Boyd and McKee, 1963

Tip Top Edman and Cook, 1992; Webel, 1977, 1987; Edman and Surdam, 1984a,b; Blackstone, 1977; Dunnewald and Gorton, 1977; Kelly and Hine, 1977; Picard, 1977b; McDonald, 1973; Wheeler, 1971; Shipp and Dunnewald, 1962; Krueger, 1960; Michael, 1960; Howe, 1955

Tisdale Hudson, 1949

Tisdale North Eckelberg, 1958; Picard, 1978

Todd Charoen-Pakdi and Fox, 1989

Torchlight Lorenz et al., 1997; Grantz, 1981; Keith and McCaleb, 1978; Stone, 1967; Willingham and Howard, 1965; Stewart et al., 1953

Trabing Lange, 1976b

Trail Iverson et al., 1995; Yin and Surdam, 1995; Garcia-Gonzalez and Surdam, 1992; Foster, 1965

Triangle U Anderman, 1976

Ute von Drehle, 1985; Stone, 1972; Biggs and McGregor, 1969

Vermillion Creek Gras, 1955b

Waltman Natali et al., 2000; Johnson and Keighin, 1998; Anthony et al., 1997; Johnson and Rice, 1993; Skeen and Ray, 1983; Lockridge, 1970c; Arro, 1969

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Waugh Dome Hoffman and Powell, 1996; Stone, 1993

Well Draw Mitchell and Rogers, 1993; Conner et al., 1989; Coughlan and Steidtmann, 1984; Curry, 1976; Isbell et al., 1976

Wertz Williams and Pitts, 1997; Wellborn and Wold, 1993; Dolson et al., 1991; Kleinsteiber, 1990; Krampert, 1951h; Pott and Devore, 1951

Westside Canal Colson, 1969; Cronoble, 1969

Wheat Draw Kendell and Bechtold, 1993

Whiskey Buttes Cluff et al., 1997; Stonecipher et al., 1997; Winn and Smithwick, 1980; Myers, 1977

Whistle Creek Kistler, 1952

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Wild Rose Keighin et al., 1989

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Willow Creek Stone, 1994; Evans and Barrett, 1977; Woodward, 1960

Willow Draw Stone, 1996; Wardwell, 1975

Wilson Ranch Stonecipher et al., 1997; Schultz and Lafollette, 1989; Stonecipher et al., 1984; Winn and Smithwick, 1980; Myers, 1977

Winkleman Dome Willis and Groshong, 1993; Pollock and Buxton, 1969; Agatson, 1957; Kirkwood, 1957; Lane, 1957; McCabe and Walker, 1948

Winter Draw Smith and Larsen, 1997

Wood Sellars and Hawkins, 1992; Mettler, 1968; Runge, 1968; Bolyard and MacGregor, 1966

Worland Stone, 1985c; Stone, 1967; Wold, 1952

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