

**EXPLANATION**

**LITHOLOGIC UNITS**

- Undifferentiated Precambrian rock outcrop
- Upper Cretaceous to Tertiary volcanic and intrusive rock outcrop

**FIELDS<sup>1,2,3</sup>**

- Gas field that has December 1994 cumulative production greater than 5-billion cubic feet of gas (BCFG); number indicates cumulative production rank
- Oil field that has December 1994 cumulative production greater than 1-million barrels of oil (MBO); number indicates cumulative production rank

**BASINS**

- Sedimentary basins

**MAP SYMBOLS**

- Fault; dashed where inferred; bar and ball on down thrown side
- Fault, movement unspecified; dashed where inferred
- Thrust fault, sawtooth on the upper plate; dashed where inferred
- San Juan and Thirty-Nine Mile volcanic and intrusive field boundaries
- Structure contour on top of Precambrian basement rock in feet above or below (-) sea level. Contour interval varies; thicker lines at 5,000-foot intervals
- Well drilled to Precambrian basement rocks
- Well in Lower Paleozoic at total depth (selected representation)

**FIELD RANKINGS**

**Gas Fields**

Rank	Field Name	Cum. Prod. MCFG <sup>8</sup>
1.	Wattenberg area <sup>3,10</sup>	1,564,861,498
2.	Ignacio Blanco	1,548,640,331
3.	Dragon Trail area <sup>4</sup>	474,419,322
4.	Hiawatha area <sup>5</sup>	338,196,403
5.	Powder Wash	246,503,419
6.	Piceance Creek	231,944,292
7.	Barker Dome	107,720,892
8.	Sugar Loaf	72,294,462
9.	Eckley area <sup>6</sup>	71,690,350
10.	South Canyon area <sup>7</sup>	68,038,416
11.	McClave	59,051,034
12.	Divide Creek	57,510,240
13.	Rulison	34,198,425
14.	Parachute	32,343,540
15.	Alkali Gulch	32,043,860
16.	Vilas	30,727,148
17.	Plateau	28,062,960
18.	Walsh	27,126,863
19.	Grand Valley	26,826,665
20.	Becher Island	26,824,274
21.	Longbranch	23,678,335
22.	Roggen	22,876,521
23.	Andys Mesa	20,879,555
24.	Shire Gulch	20,750,576
25.	Craig North	20,177,751
26.	Greenwood	19,599,690
27.	White River	18,888,845
28.	Thornburg	17,985,364
29.	Lilli	17,659,121
30.	Bonny	15,141,881
31.	DeNova	15,110,660
32.	Winter Valley	14,956,142
33.	Chieftain	14,557,905
34.	Lisbon Southeast	13,969,288
35.	Flank	13,801,799
36.	Westside Canal	12,688,559
37.	Plays	12,650,232
38.	Little Hood	12,560,508
39.	Midway	12,259,350
40.	Valley	10,859,083
41.	Armstrong	10,700,531
42.	Waite Lake	10,573,521
43.	Deer Trail	10,134,829
44.	Wagon Trail	9,887,924

**Oil Fields**

Rank	Field Name	Cum. Prod. BO <sup>9</sup>
1.	Rangely <sup>11</sup>	808,455,115
2.	Wilson Creek	84,579,425
3.	Adena	63,946,297
4.	Iles	19,115,257
5.	Plum Bush Creek	18,854,389
6.	Little Beaver	17,452,297
7.	Florence-Canon City	15,190,420
8.	Arapahoe	13,979,182
9.	Graylin NW	13,583,086
10.	Peoria	12,785,708
11.	Maudlin Gulch	11,730,505
12.	Pierce	11,428,216
13.	Sorrento	10,994,360
14.	Brandon	10,969,418
15.	Black Hollow	10,773,497
16.	Yenter	10,433,791
17.	Mount Pearl	9,825,272
18.	Moffat	9,503,783
19.	Wellington	8,112,701
20.	Mount Hope	7,030,749
21.	Bobcat	6,841,374
22.	Price Gramps	6,774,540
23.	Badger Creek	6,449,343
24.	Rush-Willadel	6,328,958
25.	Cliff	6,016,154
26.	Bison	5,813,495
27.	Levis Creek	5,421,310
28.	Papoose Canyon	5,403,301
29.	Fort Collins	5,322,229
30.	Cheyenne Wells	4,693,243
31.	Divide	4,458,185
32.	Buck Peak	4,332,479
33.	Merino	4,315,378
34.	Cache	4,311,374
35.	Little Beaver East	4,270,020
36.	Padroni West	4,231,246
37.	Lindon	4,069,415
38.	Parachute	4,058,980
39.	Sand River	4,036,513
40.	Danforth Hills	4,014,974
41.	West Fork	3,696,279
42.	Swan	3,339,404
43.	McClean	3,306,100
44.	Nile	3,248,997
45.	Frontera	3,205,775
46.	Loveland	3,064,810
47.	Tow Creek	3,010,619
48.	Kejt	2,987,855
49.	Battle Tree	2,972,078
50.	Battleship	2,968,537
51.	Blade	2,901,111
52.	Akron East	2,747,851
53.	Boxer	2,692,818
54.	Rago North	2,686,543
55.	Saber	2,679,892
56.	Xenia West	2,647,222
57.	Mount Hope East	2,576,214
58.	Phegley	2,570,737
59.	Atwood East	2,486,634
60.	Nugget	2,480,961
61.	Lone Pine	2,478,213
62.	Floodine Park	2,437,858
63.	Camp	2,285,849
64.	Cimarron	2,285,889
65.	Minto	2,277,497
66.	Hyde	2,270,637
67.	Pawnee Creek	2,224,990
68.	McCallum	2,217,796

Field locations modified from: Smith, J. et al., 1991, Oil and gas fields map of Colorado: Colorado Geological Survey Map Series 26, scale 1:500,000.

Outcrop configuration modified from: Tweto, Ogden, 1979, Geologic map of Colorado: U.S. Geological Survey, scale 1:500,000.

Green, Gregory, 1992, Digital geologic map of Colorado: U.S. Geological Survey, Open File Report 92-0507.

**REFERENCES**

Rank	Field Name	Cum. Prod. MCFG <sup>8</sup>
45.	Rock Creek	9,589,654
46.	Lost Creek	9,234,513
47.	Totum	8,947,987
48.	Canadian River	8,749,451
49.	Gasaway	8,633,815
50.	Quail	8,497,207
51.	Barrel Springs	8,192,689
52.	Hunters Canyon	7,890,447
53.	Blue Gravel	7,441,038
54.	Bar X	7,354,272
55.	Garmes	7,252,014
56.	Park Mountain	7,242,590
57.	Buzzard Creek	6,923,618
58.	Lay Creek	6,884,974
59.	Sulphur Creek	6,467,993
60.	Young	6,346,670
61.	Douletree	6,068,173
62.	Bijou	5,834,163
63.	Horsefall	5,811,432
64.	Stonington	5,774,000
65.	Pardoni	5,706,137
66.	Republican	5,598,290
67.	Krauthhead	5,596,652
68.	Big Hole	5,538,765
69.	Mildred	5,583,790
70.	Shell Creek	5,361,163
71.	Taiga Mountain	5,297,319
72.	Beta	5,217,314
73.	Clyde	5,206,356

**REFERENCES**

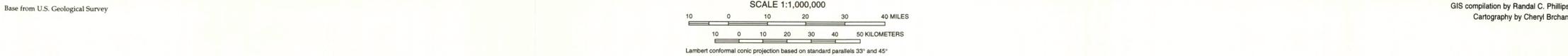
Oil and gas production statistics derived from: Colorado Oil and Gas Conservation Commission files and publications. Structural contours based on: Petroleum Information well records. Miscellaneous published information. MacLachlan, J.C. and Kleinkopf, M.D., eds., 1969, Configuration of the crystalline basement rocks of Colorado: Rocky Mountain Association of Geologists, scale 1:500,000.

**ACKNOWLEDGEMENTS**

This project was partially funded by the Colorado Geological Survey Petroleum Consortium. Participants are: Amoco, Chevron, Shell, Texaco, and Union Pacific Resources.

**REFERENCES**

1. Field boundaries are approximate and do not distinguish between different producing field pools.  
2. Individual fields whose gas-oil ratio (GOR) exceeds 6,000 standard cubic feet per stock tank barrel (SCF/STB) are classified as gas fields. Fields with GORs less than 6,000 SCF/STB are classified as oil fields.  
3. The Wattenberg area gas field on this map includes the Colorado Oil and Gas Conservation Commission's (OGCC) Wattenberg, Spindie, Hamberg, Aristocrat, Eaton, Braewell, Kersey, Greeley, Banner Lakes, Jamboree, Third Creek, Tampa and Trapper field areas.  
4. The Dragon Trail area gas field includes the OGCC's Dragon Trail, North Douglas Creek, Philadelphia Creek, Lower Hiway Draw, Cathedral, Douglas Creek, Texas Mountain, Douglas Creek South, Trail Canyon, Thunders, Thunder Douglas Creek, Foundation Creek, Twin Buttes, Bayler Pass, and Rangely Southwest field areas.  
5. The Hiawatha area gas field includes the OGCC's Hiawatha and West Hiawatha field areas.  
6. The Eckley area gas field includes the OGCC's Eckley, Waverly, and Old Baldy field areas.  
7. The South Canyon area gas field includes the OGCC's South Canyon, Bar X, and Bridle field areas.  
8. Cumulative production of thousands of cubic feet of gas (MCFG) as of December 1994.  
9. Cumulative production in barrels of oil (BO) as of December 1994.  
10. The Wattenberg area gas field production of 110,474,114 BO makes it the State's second largest oil producer.  
11. The Rangely oil field production of 739,330,085 MCFG makes it the State's third largest gas producer.



**BASEMENT STRUCTURE MAP OF COLORADO WITH MAJOR OIL AND GAS FIELDS**

By H. Thomas Hemborg