

Appendix B

Top 100 Oil and Gas Fields for 2002

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This appendix presents estimates of the proved reserves and production of the top 100 oil and gas fields. The oil field production and reserve data include both crude oil and lease condensate. The gas field production and reserve data is total wet natural gas (associated-dissolved natural gas and nonassociated natural gas, wet after lease separation). Several of the same fields are in both tables B1 and B2.

Table B1. Top 100 Oil Fields for 2002

The top 100 oil fields in the United States as of December 31, 2002, had 15,452 million barrels of **proved reserves** accounting for 64 percent of the total United States (**Table 6 and Table 14**). Although there is considerable grouping of field-level statistics within the tables, rough orders of magnitude can be estimated for the proved reserves and production of most fields. Many of the fields in the top 100 group are operated by only one or two operators, therefore, the totals for proved reserves are grouped as top 10, top 20, top 50, and top 100 to avoid revealing company proprietary data.

In the top 20 oil fields for 2002 there are six fields, Mississippi Canyon Block 778 (Thunder Horse), Mississippi Canyon Block 807 (Mars), Green Canyon Block 644 (Holstein), Mississippi Canyon Block 810 (Ursa), Green Canyon 826 (Mad Dog), and Mississippi Canyon 84 (King Horn Mountain) which are in the deep water of the Gulf of Mexico Federal Offshore.

The top 100 oil fields in the United States as of December 31, 2002, had 1,041 million barrels of **production**, or 50 percent of the total (**Table 6 and Table 14**). Many of the oil fields in the top 100 are very old. The oldest reported field to EIA, Coalinga in California, was discovered in 1887. The newest reported field was Main Pass Blk 61 in the Gulf of Mexico Federal Offshore. The oil fields with newer discovery dates are typically located in the Gulf of Mexico Offshore and Alaska.

Table B2. Top 100 Gas Fields for 2002

The top 100 gas fields in the United States as of December 31, 2002, had 98,376 billion cubic feet of wet natural gas **proved reserves**, or 50 percent of the total (**Table 9**).

The top 100 gas fields in the United States as of December 31, 2002, had 7,426 billion cubic feet of **production**, or 37 percent of the total (**Table 9**). Fewer of the gas fields in the top 100 are as old as the top 100 oil fields. There were 22 gas fields in Table B2 that were discovered prior to 1950 and 55 gas fields were discovered after 1967. The oldest, Big Sandy in Kentucky, was discovered in 1881. The gas fields with newer discovery dates are located in the Gulf of Mexico Offshore, New Mexico, Colorado, and Wyoming.

Table B3. Top U.S. Operators Ranked by Reported 2002 Operated Production Data

Table B3 lists the top U.S. oil and gas operators ranked by reported 2002 operated production data.

Table B1. Top 100 U.S. Fields Ranked by Liquids Proved Reserves from Estimated 2002 Field Level Data^a
(Million Barrels of 42 U.S. Gallons)

Field Name	Location	Discovery Year	Proved Reserves Rank Group	2002 Reported Production Volume
1 PRUDHOE BAY	AK	1967	(1-10)	151.6
2 MISSISSIPPI CANYON BLK 778	FG	1999	(1-10)	0.0
3 KUPARUK RIVER	AK	1969	(1-10)	58.6
4 BELRIDGE SOUTH	CA	1911	(1-10)	39.9
5 MIDWAY-SUNSET	CA	1901	(1-10)	50.4
6 WASSON	TX	1937	(1-10)	25.5
7 YATES	TX	1926	(1-10)	6.9
8 KERN RIVER	CA	1899	(1-10)	38.6
9 ELK HILLS	CA	1920	(1-10)	19.7
10 MISSISSIPPI CANYON BLK 807	FG	1989	(1-10)	52.1
Top 10 Volume Subtotal			7,407.4	443.4
Top 10 Percentage of U.S. Total			30.8%	21.3%
11 SPRABERRY TREND AREA	TX	1951	(11-20)	24.0
12 ALPINE	AK	1994	(11-20)	35.0
13 MILNE POINT	AK	1982	(11-20)	18.6
14 SLAUGHTER	TX	1937	(11-20)	15.3
15 HONDO	FP	1990	(11-20)	9.0
16 GREEN CANYON BLK 644	FG	1999	(11-20)	0.0
17 GREEN CANYON BLK 826	FG	1999	(11-20)	0.0
18 MISSISSIPPI CANYON BLK 810	FG	1996	(11-20)	31.8
19 CYMRIC	CA	1916	(11-20)	20.1
20 MISSISSIPPI CANYON 84	FG	1993	(11-20)	5.3
Top 20 Volume Subtotal			9,966.3	602.6
Top 20 Percentage of U.S. Total			41.5%	28.9%
21 LEVELLAND	TX	1945	(21-50)	9.6
22 LOST HILLS NW	CA	1910	(21-50)	11.3
23 WILMINGTON	CA	1932	(21-50)	15.1
24 PESCADO	FP	1970	(21-50)	5.8
25 SHO-VEL-TUM	OK	1905	(21-50)	9.5
26 NORTHSTAR	AK	1984	(21-50)	17.6
27 HOBBS	NM	1928	(21-50)	2.7
28 COWDEN NORTH	TX	1930	(21-50)	7.3
29 ENDICOTT	AK	1978	(21-50)	8.7
30 POINT MCINTYRE	AK	1988	(21-50)	15.2
31 SAN ARDO	CA	1947	(21-50)	4.7
32 WATTENBERG	CO	1970	(21-50)	7.5
33 INGLEWOOD	CA	1924	(21-50)	2.8
34 CEDAR HILLS	ND & MT & SD	1954	(21-50)	2.0
35 VENTURA	CA	1916	(21-50)	4.7
36 KELLY-SNYDER	TX	1948	(21-50)	4.8
37 VACUUM	NM	1929	(21-50)	8.1
38 SACATE	FP	1970	(21-50)	2.3
39 GREEN CANYON BLK 339	FG	2001	(21-50)	0.0
40 MCELROY	TX	1926	(21-50)	5.2
41 BOREALIS	AK	2001	(21-50)	9.2
42 GREATER ANETH	UT	1956	(21-50)	3.7
43 ROBERTSON NORTH	TX	1956	(21-50)	3.9
44 HAWKINS	TX	1975	(21-50)	3.3
45 MONUMENT BUTTE	UT	1964	(21-50)	1.7
46 MISSISSIPPI CANYON BLK 383	FG	1987	(21-50)	0.0
47 VIOSCA KNOLL BLK 786	FG	1996	(21-50)	17.7
48 FULLERTON	TX	1942	(21-50)	5.1
49 COALINGA	CA	1887	(21-50)	6.9
50 GOLDSMITH	TX	1935	(21-50)	4.1
Top 50 Volume Subtotal			13,148.5	803.3
Top 50 Percentage of U.S. Total			54.7%	38.6%

Table B1. Top 100 U.S. Fields Ranked by Liquids Proved Reserves from Estimated 2002 Field Level Data^a
(Continued)
(Million Barrels of 42 U.S. Gallons)

Field Name	Location	Discovery Year	Proved Reserves Rank Group	2002 Reported Production Volume
51 RANGELY	CO	1902	(51-100)	5.5
52 VIOSCA KNOLL BLK 990	FG	1981	(51-100)	12.2
53 REDOUBT SHOAL	AK	1968	(51-100)	0.0
54 MISSISSIPPI CANYON BLK 773	FG	2000	(51-100)	0.0
55 POLARIS	AK	2000	(51-100)	0.9
56 ARROYO GRANDE	CA	1906	(51-100)	0.7
57 SALT CREEK	TX	1942	(51-100)	5.2
58 JAY	MT & WY	1915	(51-100)	2.9
59 PENNEL	AL & FL	1970	(51-100)	2.2
60 WEST SAK	MT	1955	(51-100)	2.4
61 GREEN CANYON BLK 158	AK	1969	(51-100)	18.0
62 GIDDINGS	FG	1992	(51-100)	11.5
63 SEMINOLE	TX	1960	(51-100)	9.0
64 GREEN CANYON BLK 608	TX	1936	(51-100)	0.0
65 MEANS	FG	2000	(51-100)	3.7
66 EWING BANK BLK 873	TX	1934	(51-100)	9.0
67 GREEN CANYON BLK 205	FG	1991	(51-100)	17.2
68 JO-MILL	FG	1988	(51-100)	2.4
69 CEDAR LAKE	TX	1953	(51-100)	2.5
70 ANTON-IRISH	TX	1939	(51-100)	5.8
71 KERN FRONT	TX	1944	(51-100)	1.4
72 LAKE WASHINGTON	CA	1925	(51-100)	1.9
73 ELK BASIN	LA	1931	(51-100)	2.6
74 MISSISSIPPI CANYON BLK 582	FG	2000	(51-100)	0.0
75 ALAMINOS CANYON BLK 25	FG	1997	(51-100)	16.1
76 BEVERLY HILLS	CA	1900	(51-100)	1.4
77 TARN	AK	1991	(51-100)	11.8
78 WEST DELTA BLK 30	FG	1949	(51-100)	5.2
79 MISSISSIPPI CANYON BLK 899	FG	1998	(51-100)	13.3
80 ALTAMONT-BLUEBELL	UT	1949	(51-100)	2.6
81 GOLDEN TREND	OK	1945	(51-100)	2.2
82 WASSON 72	TX	1940	(51-100)	1.6
83 MONUMENT	NM	1935	(51-100)	2.6
84 VIOSCA KNOLL BLK 915	FG	1993	(51-100)	4.9
85 BELRIDGE NORTH	CA	1912	(51-100)	2.8
86 MISSISSIPPI CANYON BLK 935	FG	1994	(51-100)	6.0
87 EAST BREAKS BLK 602	FG	1999	(51-100)	6.2
88 BREA-OLINDA	CA	1897	(51-100)	1.8
89 GARDEN BANKS BLK 668	FG	2000	(51-100)	0.0
90 GREEN CANYON BLK 244	FG	1994	(51-100)	21.6
91 AURORA	AK	1999	(51-100)	2.2
92 LOOKOUT BUTTE EAST	MT	1986	(51-100)	1.7
93 FOSTER	TX	1985	(51-100)	2.6
94 MAIN PASS BLK 61	FG	2001	(51-100)	0.4
95 DOLLARHIDE	NM & TX	1945	(51-100)	3.0
96 SOUTH PASS EA BLK 62	FG	1974	(51-100)	2.1
97 EUNICE MONUMENT	NM	1929	(51-100)	1.1
98 BIG STICK	ND	1979	(51-100)	0.8
99 MONTEBELLO	CA	1917	(51-100)	1.0
100 GARDEN BANKS BLK 559	FG	1999	(51-100)	5.8
Top 100 Volume Subtotal			15,451.6	1,041.3
Top 100 Percentage of U.S. Total			64.3%	50.0%

^aIncludes lease condensate.

Notes: The U.S. total production estimate of 2,085 million barrels and the U.S. total reserves estimate of 24,023 million barrels, used to calculate the percentages in this table, are from the combined totals of Table 6 and Table 15 in this publication. Column totals may not add due to independent rounding.

Source: Energy Information Administration, Office of Oil and Gas.

Table B2. Top 100 U.S. Fields as Ranked by Gas Proved Reserves from Estimated 2002 Field Level Data^a
(Billion Cubic Feet)

Field Name	Location	Discovery Year	Proved Reserves Rank Group	2002 Reported Production Volume
1 BLANCO / IGNACIO-BLANCO	CO & NM	1927	(1-10)	841.7
2 BASIN	NM	1969	(1-10)	592.1
3 PRUDHOE BAY	AK	1967	(1-10)	196.5
4 HUGOTON GAS AREA	KS & OK & TX	1922	(1-10)	393.0
5 PINEDALE	WY	1955	(1-10)	31.2
6 MADDEN	WY	1968	(1-10)	99.2
7 JONAH	WY	1977	(1-10)	224.7
8 WATTENBERG	CO	1970	(1-10)	175.4
9 ANTRIM	MI	1965	(1-10)	224.7
10 RATON BASIN GAS AREA	CO & NM	1999	(1-10)	71.3
Top 10 Volume Subtotal			44,246.6	2,849.8
Top 10 Percentage of U.S. Total			22.6%	14.1%
11 NEWARK EAST	TX	1981	(11-20)	203.2
12 PRB COALBED	WY	1999	(11-20)	311.1
13 CARTHAGE	TX	1944	(11-20)	195.7
14 FOGARTY CREEK	WY	1975	(11-20)	32.0
15 NATURAL BUTTES	UT	1952	(11-20)	94.3
16 MOBILE BAY FIELDS	AL	1979	(11-20)	135.2
17 BIG SANDY	KY & WV	1881	(11-20)	49.0
18 DRUNKARDS WASH	UT	1989	(11-20)	86.3
19 SPRABERRY TREND AREA	TX	1952	(11-20)	95.8
20 SAWYER	TX	1975	(11-20)	66.5
Top 20 Volume Subtotal			60,650.5	4,119.1
Top 20 Percentage of U.S. Total			31.0%	20.3%
21 PANHANDLE WEST	TX	1918	(21-50)	99.6
22 OAKWOOD	VA	1990	(21-50)	47.3
23 MAMM CREEK	CO	1959	(21-50)	28.1
24 VERNON	LA	1967	(21-50)	31.3
25 RED OAK-NORRIS	OK	1910	(21-50)	53.7
26 MISSISSIPPI CANYON BLK 778	FG	1999	(21-50)	0.0
27 STRONG CITY DISTRICT	OK	1966	(21-50)	70.1
28 ELK HILLS	CA	1919	(21-50)	129.4
29 OAK HILL	TX	1980	(21-50)	71.1
30 LAKE RIDGE	WY	1981	(21-50)	16.1
31 MISSISSIPPI CANYON BLK 810	FG	1996	(21-50)	49.9
32 MESA UNIT	WY	1981	(21-50)	25.4
33 GOMEZ	TX	1977	(21-50)	54.2
34 GRAND VALLEY	CO	1985	(21-50)	31.4
35 GIDDINGS	TX	1973	(21-50)	142.9
36 BELUGA RIVER	AK	1962	(21-50)	43.8
37 COOK INLET NORTH	AK	1962	(21-50)	54.3
38 MOCANE-LAVERNE GAS AREA	KS & OK & TX	1947	(21-50)	89.6
39 RULISON	CO	1958	(21-50)	32.2
40 DEW	TX	1982	(21-50)	60.1
41 PANOMA GAS AREA	KS	1956	(21-50)	60.7
42 BALD PRAIRIE	TX	1976	(21-50)	30.0
43 WATONGA-CHICKASHA TREND	OK	1962	(21-50)	63.4
44 KINTA	OK	1926	(21-50)	45.8
45 FREESTONE	TX	1949	(21-50)	49.9
46 GOLDEN TREND	OK	1947	(21-50)	48.4
47 ELM GROVE	LA	1958	(21-50)	52.3
48 VIOSCA KNOLL BLK 956	FG	1985	(21-50)	78.9
49 EAST BREAKS BLK 602	FG	1999	(21-50)	26.5
50 EAST BREAKS BLK 945	FG	1994	(21-50)	43.5
Top 50 Volume Subtotal			82,254.5	5,749.0
Top 50 Percentage of U.S. Total			42.1%	28.4%

Table B2. Top 100 U.S. Fields as Ranked by Gas Proved Reserves from Estimated 2002 Field Level Data^a
(Continued)
(Billion Cubic Feet)

Field Name	Location	Discovery Year	Proved Reserves Rank Group	2002 Reported Production Volume
51 LOWER MOBILE BAY-MARY ANN	AL	1979	(51-100)	26.9
52 WAMSUTTER	WY	1958	(51-100)	33.6
53 WASSON	TX	1973	(51-100)	23.1
54 MISSISSIPPI CANYON BLK 807	FG	1989	(51-100)	66.6
55 PARACHUTE	CO	1985	(51-100)	15.6
56 WHITNEY CANYON-CARTER CRK	WY	1978	(51-100)	77.6
57 DOWDY RANCH	TX	1999	(51-100)	28.4
58 MAYFIELD NE	OK	1951	(51-100)	47.1
59 BRUFF	WY	1969	(51-100)	39.9
60 FARRAR	TX	1963	(51-100)	11.2
61 MISSISSIPPI CANYON BLK 731	FG	1987	(51-100)	76.2
62 WILBURTON	OK	1960	(51-100)	64.4
63 BLUE CREEK COAL DEGAS	AL	1988	(51-100)	25.9
64 MONTE CHRISTO NORTH	TX	1982	(51-100)	59.7
65 NORA	VA	1949	(51-100)	16.1
66 ELK CITY	OK	1947	(51-100)	49.4
67 BOB WEST	TX	1990	(51-100)	30.4
68 OZONA	TX	1971	(51-100)	32.1
69 WILD ROSE	WY	1975	(51-100)	24.2
70 STRATTON	TX	1981	(51-100)	16.3
71 ECHO SPRINGS	WY	1977	(51-100)	33.3
72 BELRIDGE SOUTH	CA	1911	(51-100)	17.9
73 CEMENT	OK	1917	(51-100)	45.5
74 VERDEN	OK	1948	(51-100)	31.3
75 STANDARD DRAW	WY	1979	(51-100)	28.6
76 MIMMS CREEK	TX	1978	(51-100)	27.7
77 KUPARUK RIVER	AK	1969	(51-100)	25.6
78 GARDEN BANKS BLK 668	FG	2000	(51-100)	0.0
79 GARDEN BANKS BLK 877	FG	2001	(51-100)	0.0
80 LABARGE	WY	1924	(51-100)	26.9
81 MOBILE BLK 823	FG	1983	(51-100)	48.5
82 WILLOW SPRINGS	TX	1954	(51-100)	30.2
83 LA PERLA	TX	1958	(51-100)	64.3
84 BLANCO SOUTH	NM	1952	(51-100)	18.3
85 MATAGORDA ISLAND BLK 623	FG	1980	(51-100)	51.0
86 CEDAR COVE COAL DEGAS	AL	1983	(51-100)	18.0
87 BOONSVILLE	TX	1945	(51-100)	35.1
88 DOUBLE A WELLS	TX	1980	(51-100)	24.4
89 BROWN-BASSETT	TX	1953	(51-100)	28.3
90 DESOTO CANYON BLK 133	FG	1993	(51-100)	5.8
91 GRAND ISLE SA BLK 116	FG	1999	(51-100)	41.7
92 BLOCK 16	TX	1969	(51-100)	31.3
93 INDIAN BASIN	NM	1971	(51-100)	130.3
94 ELK BASIN	MT & WY	1915	(51-100)	7.1
95 SHO-VEL-TUM	OK	1905	(51-100)	20.2
96 CEDARDALE NE	OK	1957	(51-100)	21.7
97 AWP	TX	1981	(51-100)	13.9
98 RIO VISTA	CA	1936	(51-100)	22.6
99 CARPENTER	OK	1980	(51-100)	20.2
100 KNOX	OK	1916	(51-100)	42.3
Top 100 Volume Subtotal			98,375.5	7,425.9
Top 100 Percentage of U.S. Total			50.3%	36.7%

^aTotal wet gas after lease separation.

Note: The U.S. total production estimate of 20,248 billion cubic feet and the U.S. total reserves estimate of 195,561 billion cubic feet, used to calculate the percentages in this table, are from Table 9 in this publication. Column totals may not add due to independent rounding.

Source: Energy Information Administration, Office of Oil and Gas.

Table B3. Top U.S. Operators Ranked by Reported 2002 Operated Production Data

Rank	Company Name	Crude Oil Production (thousand barrels/day)	Rank	Company Name	Total Natural Gas Production (million cubic feet/day)
1	BP PLC	868	1	BP PLC	5,512
2	CHEVRONTEXACO INC	620	2	EXXONMOBIL CORP	3,130
3	SHELL OIL CO	462	3	CHEVRONTEXACO INC	2,846
4	CONOCOPHILLIPS CO	350	4	CONOCOPHILLIPS CO	2,445
5	EXXONMOBIL CORP	297	5	SHELL OIL CO	2,377
6	OCCIDENTAL PETROLEUM CORP	261	6	DEVON ENERGY CORP	2,020
7	AERA ENERGY LLC	232	7	EL PASO ENERGY	1,894
8	AMERADA HESS CORP	106	8	BURLINGTON RESOURCES OIL & GAS CO	1,875
9	ANADARKO PETROLEUM CORP	103	9	ANADARKO PETROLEUM CORP	1,776
10	MARATHON OIL CO	97	10	UNOCAL CORP	1,261
Top 10 Volume Subtotal		3,396	Top 10 Volume Subtotal		25,136
Top 10 Percentage of U.S. Total		60%	Top 10 Percentage of U.S. Total		45%
11	UNOCAL CORP	80	11	DOMINION RESOURCES INC	885
12	KERR-MCGEE CORP	79	12	E O G RESOURCES INC	884
13	DEVON ENERGY CORP	69	13	KERR-MCGEE CORP	876
14	APACHE CORP	65	14	MARATHON OIL CO	865
15	EL PASO ENERGY	46	15	APACHE CORP	863
16	NUEVO ENERGY CO	45	16	XTO ENERGY INC	810
17	WESTPORT RESOURCES CORP	44	17	OCCIDENTAL PETROLEUM CORP	771
18	MERIT ENERGY CO	38	18	WILLIAMS ENERGY INC	720
19	CITY OF LONG BEACH	33	19	NEWFIELD EXPLORATION CO	669
20	CITATION OIL & GAS CORP	28	20	ENCANA OIL & GAS INC	633
Top 20 Volume Subtotal		3,923	Top 20 Volume Subtotal		33,112
Top 20 Percentage of U.S. Total		69%	Top 20 Percentage of U.S. Total		60%
21	PIONEER NATURAL RESOURCES USA	28	21	AMERADA HESS CORP	621
22	BURLINGTON RESOURCES OIL & GAS CO	27	22	CHESAPEAKE ENERGY CORP	604
23	DENBURY RESOURCES INC	24	23	SAMSON INVESTMENT CO	426
24	NEWFIELD EXPLORATION CO	23	24	OCEAN ENERGY INC	422
25	OCEAN ENERGY INC	23	25	PIONEER NATURAL RESOURCES USA	357
26	E O G RESOURCES INC	21	26	HOUSTON EXPLORATION	349
27	VINTAGE PETROLEUM INC	20	27	QUESTAR CORP	339
28	HUNT OIL CO	19	28	WESTPORT RESOURCES CORP	302
29	PLAINS RESOURCES INC	19	29	EQUITABLE RESOURCES INC	292
30	ENCORE OPERATING LP	19	30	NOBLE AFFILIATES INC	285
31	DOMINION RESOURCES INC	18	31	HUNT OIL CO	260
32	AGIP PETROLEUM CO INC	18	32	TOTALFINAELF SA	249
33	NOBLE AFFILIATES INC	17	33	WALTER OIL & GAS CORP	242
34	HILCORP ENERGY CO	17	34	YATES PETROLEUM CORP	240
35	POGO PRODUCING CO	16	35	CABOT OIL & GAS CORP	229
36	STONE ENERGY CORP	16	36	STONE ENERGY CORP	221
37	XTO ENERGY INC	16	37	ENERGEN RESOURCES CORP	221
38	ARGUELLO INC	16	38	POGO PRODUCING CO	218
39	NATIONAL FUEL GAS	15	39	CIMAREX ENERGY CO	217
40	BERRY PETROLEUM CO	15	40	TOM BROWN INC	207
41	GRUY PETROLEUM MANAGEMENT CO	14	41	KAISER - FRANCIS OIL CO	206
42	ENERGEN RESOURCES CORP	13	42	SPINNAKER EXPLORATION CO LLC	206
43	KINDER MORGAN CO2 CO LP	13	43	AGIP PETROLEUM CO INC	200
44	BASS ENTERPRISES PRODUCTION CO	12	44	HILCORP ENERGY CO	195
45	UNITED OIL & MINERALS LP	12	45	HUBER J M CORP	193
46	CHESAPEAKE ENERGY CORP	12	46	HUNT PETROLEUM CORP	188
47	FOREST OIL CORP	11	47	MERIT ENERGY CO	186
48	YATES PETROLEUM CORP	11	48	DENBURY RESOURCES INC	186
49	CONTINENTAL RESOURCES INC	11	49	FOREST OIL CORP	184
50	NEXEN ENERGY INC	10	50	PATINA OIL & GAS CORP	164
Top 50 Volume Subtotal		4,429	Top 50 Volume Subtotal		41,321
Top 50 Percentage of U.S. Total		78%	Top 50 Percentage of U.S. Total		74%

Note: Crude oil production includes production of lease condensate and total natural gas production is wet after lease separation.