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Top 100 U.S. Oil and Gas Fields

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Top 100 U.S. Oil and Gas Fields

Introduction

This supplement to the U.S. Energy Information Administration's (EIA) *U.S. Crude Oil and Natural Gas Proved Reserves, 2013* ranks the 100 largest U.S. oil and gas fields by their estimated 2013 proved reserves.

EIA defines a ***field*** as "an area consisting of a single reservoir or multiple reservoirs all grouped on, or related to, the same individual geological structural feature and/or stratigraphic condition. There may be two or more reservoirs in a field that are separated vertically by intervening impervious strata or laterally by local geologic barriers, or by both." This definition is not used by all states in their designation of fields; consequently, areas classified as individual fields by some states may be found combined in these tables or in the EIA Field Code Master List.

Particularly in the case of unconventional shale plays for both crude oil and natural gas, multiple areas or fields may have been combined into one entry within these ranking tables. The resultant *field* entry in the table is labeled as an ***area*** or ***unit***, e.g., Marcellus Shale Area, Haynesville Shale Unit, Spraberry Trend Area, and Hugoton Gas Area.

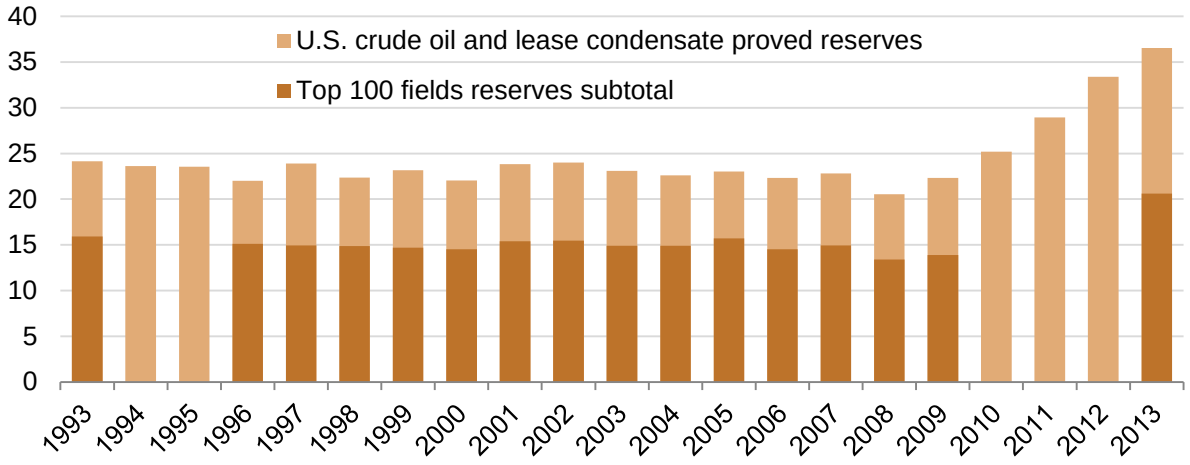
The oil field production and reserves data include both crude oil and lease condensate. The gas field production and reserves data are total natural gas, wet after lease separation, which is the sum of associated-dissolved natural gas and nonassociated natural gas with natural gas plant liquids not yet removed.

The top 100's share of U.S. proved reserves in 2013

The top 100 oil fields as of December 31, 2013, accounted for 20.6 billion barrels of crude oil and lease condensate proved reserves, which was 56% of the U.S. total (36.5 billion barrels) in 2013 (Figure 1).

Figure 1. U.S. proved reserves of crude oil and lease condensate, 1993-2013

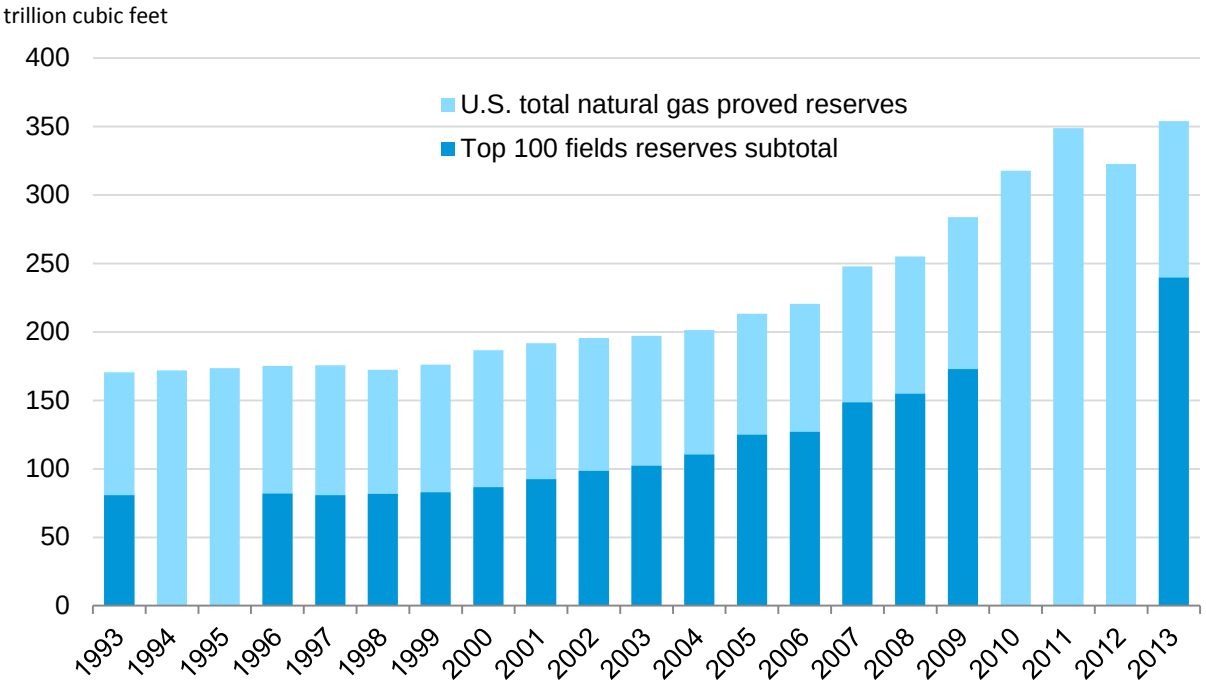
billion barrels



Notes: Annual Reports in 1994-95 featured a reprint of 1993 top 100 fields data. No top 100 fields data were published in 2010-12.
Sources: U.S. Energy Information Administration, Form EIA-23L, Annual Survey of Domestic Oil and Gas Reserves, 2013. *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Proved Reserves (DOE/EIA-0216), Annual Reports 1993-2009*.

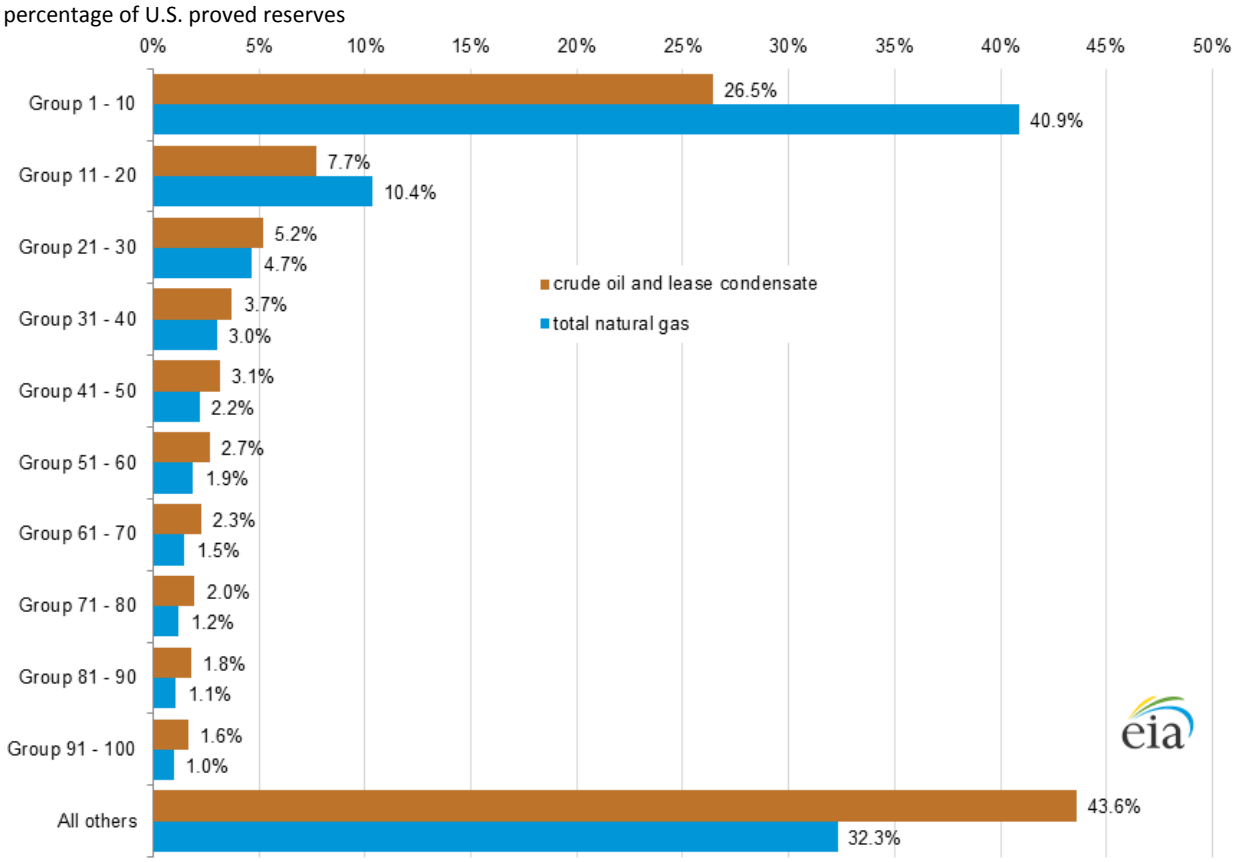
The top 100 gas fields as of December 31, 2013, accounted for 239.7 trillion cubic feet of total natural gas proved reserves, about 68% of the U.S. total natural gas proved reserves in 2013 (Figure 2).

Figure 2. U.S. proved reserves of total natural gas, 1993-2013



Notes: Annual Reports in 1994-95 featured a reprint of 1993 top 100 fields data. No top 100 fields data were published in 2010-12.
Sources: U.S. Energy Information Administration, Form EIA-23L, Annual Survey of Domestic Oil and Gas Reserves, 2013. *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Proved Reserves (DOE/EIA-0216), Annual Reports 1993-2009*.

Figure 3. Distribution of U.S. proved reserves, 2013 (in groups of 10)



Note: In some fields, only one or very few operators are the source of proved reserves estimates. Therefore, EIA does not provide field-specific proved reserves estimates in order to avoid compromising proprietary data. Instead, EIA combines the proved reserves estimates of the top 100 fields into groups of 10 to provide a sense of the operated concentration of total proved reserves, while still protecting data sources. Columns may not add to 100% because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-23L, Annual Survey of Domestic Oil and Gas Reserves, 2013.

Changes Since 2009

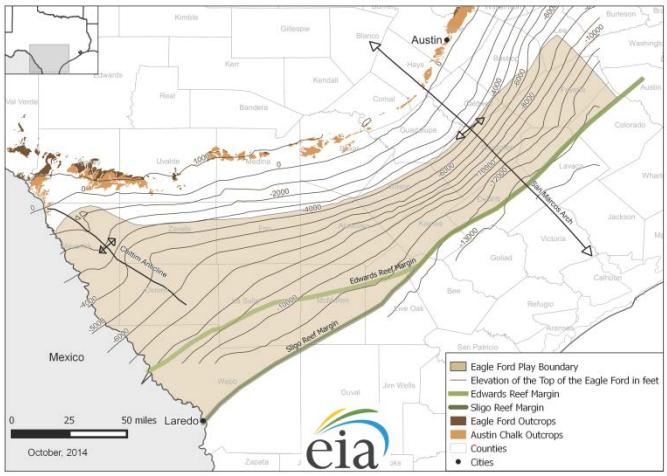
EIA last published its ranking of the top 100 oil and gas fields in 2009.

Changes in the top 100 Oil Fields

In 2009, the United States had 22.3 billion barrels of crude oil and lease condensate proved reserves, and its top 100 oil fields had 62.3% of that total, or 13.9 billion barrels of proved reserves. In 2013, the United States had 36.5 billion barrels of crude oil and lease condensate proved reserves, and its top 100 U.S. oil fields had 56.4% of that total, or 20.6 billion barrels of proved reserves (Table 1).

Prominent new additions to the top 10 are two fields from the Eagle Ford Shale Play in Texas, Eagleville and Briscoe Ranch. Eagleville, discovered in 2009, spans 14 counties in South Texas and is the country's largest oil field as ranked by estimated proved reserves. Prudhoe Bay Field in Alaska (the largest U.S. oil field in 2009) declined in rank to third place, also behind the Spraberry Trend Area of Texas.

Eagle Ford Shale Play, Western Gulf Basin

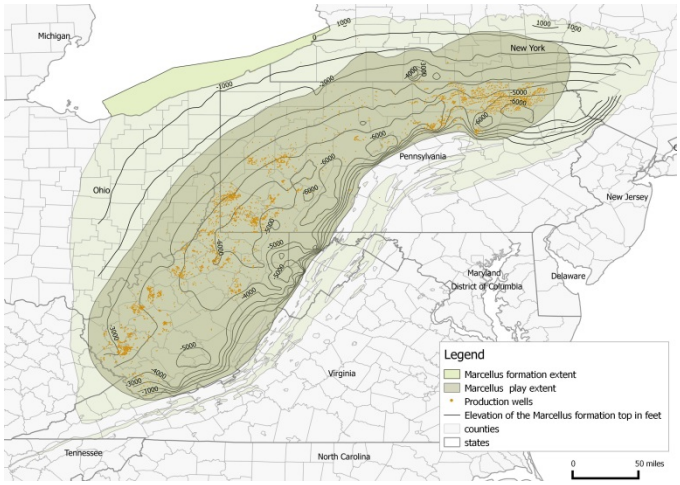


Changes in the top 100 gas fields

In 2009, the United States had 283.9 trillion cubic feet (Tcf) of total natural gas proved reserves, and its top 100 gas fields had 60.8% of that total, or 172.7 Tcf of proved reserves. In 2013, the United States had 354.0 Tcf of total natural gas proved reserves, and its top 100 U.S. gas fields had 67.7% of the total, or 239.7 billion cubic feet of proved reserves (Table 2).

A notable addition to the top 10 is the Marcellus Shale Area. This shale gas play currently includes proved reserves from north central West Virginia and a large expanse of Pennsylvania—from the southwest corner to the northeast. The Marcellus Shale Area has surpassed the Barnett Shale to become the largest U.S. gas field ranked by estimated proved reserves in 2013.

Marcellus Shale Play, Appalachian Basin



Top 100 fields ranking tables

The following tables rank the top 100 U.S. oil and gas fields by their 2013 proved reserves, but the field-specific reserves are not disclosed. Instead, field-specific estimated production volumes (provided by operators) are offered to give an idea of relative field size.

Also included in the tables are the discovery years of the top 100 fields (Source: U.S. Energy Information Administration, 2013 Field Code Master List.) For additional reserves information, including breakouts by state and state subdivision, see the report *U.S. Crude Oil and Natural Gas Proved Reserves, 2013*.

Table 1. Top 100 U.S. oil fields as of December 31, 2013

thousands of barrels of 42 U.S. gallons

2013 Rank	Field Name	Location	2013 Proved Reserves	2013 Estimated Production	Discovery Year
1	EAGLEVILLE (EAGLE FORD SHALE)	TX	-	238,050	2009
2	SPRABERRY TREND AREA	TX	-	99,787	1949
3	PRUDHOE BAY	AK	-	79,080	1967
4	WATTENBERG	CO	-	47,259	1970
5	BRISCOE RANCH (EAGLE FORD SHALE)	TX	-	62,046	1962
6	KUPARUK RIVER	AK	-	29,487	1969
7	MISSISSIPPI CANYON BLK 778 (THUNDER HORSE)	Fed Gulf	-	15,833	1999
8	WASSON	TX	-	19,996	1937
9	BELRIDGE SOUTH	CA	-	23,703	1911
10	GREEN CANYON BLK 699 (ATLANTIS)	Fed Gulf	-	27,346	1998
	Group 1-10 Volume Subtotal		**9,659,688**	**642,587**	
11	MISSISSIPPI CANYON BLK 807 (MARS)	Fed Gulf	-	19,587	1989
12	GREEN CANYON BLK 826 (MAD DOG)	Fed Gulf	-	11,665	1998
13	SUGARKANE	TX	-	25,793	2009
14	DE WITT	TX	-	18,291	1959
15	MIDWAY-SUNSET	CA	-	28,766	1901
16	KERN RIVER	CA	-	25,494	1899
17	CAT CANYON	CA	-	1,187	1909
18	GOLDSMITH	TX	-	8,492	1935
19	STANLEY (BAKKEN SHALE)	ND	-	17,587	1977
20	MISSISSIPPI CANYON BLK 854 (URSA)	Fed Gulf	-	19,396	1991
	Group 11-20 Volume Subtotal		**2,798,850**	**176,258**	
21	CEDAR HILLS	MT & ND & SD	-	15,880	1951
22	ELK HILLS	CA	-	12,922	1919
23	WALKER RIDGE BLK 678 (ST. MALO)	Fed Gulf	-	-	2003
24	GREEN CANYON BLK 654 (SHENZI)	Fed Gulf	-	35,280	2002
25	SLAUGHTER	TX	-	8,930	1937
26	WILMINGTON	CA	-	13,801	1932
27	GREEN CANYON BLK 640 (TAHITI)	Fed Gulf	-	24,808	2002
28	SANISH (BAKKEN SHALE)	ND	-	23,832	1953
29	MONUMENT BUTTE	UT	-	5,452	1964
30	SIVERSTON	ND	-	3,782	2006
	Group 21-30 Volume Subtotal		**1,891,056**	**144,687**	
31	HEART BUTTE	ND	-	7,825	1994
32	RUSSIAN CREEK (BAKKEN SHALE)	ND	-	307	1978
33	BANKS	ND	-	4,912	1982
34	ELM COULEE (BAKKEN SHALE)	MT	-	11,793	2000
35	WALKER RIDGE BLK 508 (STONES)	Fed Gulf	-	-	2005
36	HONDO	Fed Pacific	-	5,335	1969
37	ALPINE	AK	-	13,496	1994
38	LEVELLAND	TX	-	6,424	1945
39	SALT CREEK	WY	-	4,051	1889
40	ALTAMONT-BLUEBELL	UT	-	5,498	1949
	Group 31-40 Volume Subtotal		**1 ,358,894**	**59,641**	
41	TRUAX	ND	-	4,011	1990
42	SEMINOLE	TX	-	7,106	1936
43	ALAMINOS CANYON BLK 857 (GREAT WHITE)	Fed Gulf	-	23,360	2002

Table 1. Top 100 U.S. oil fields as of December 31, 2013 (cont.)

thousands of barrels of 42 U.S. gallons

2013 Rank	Field Name	Location	2013 Proved Reserves	2013 Estimated Production	Discovery Year
44	LIN	TX	-	8,186	1984
45	CYMRIC	CA	-	14,306	1916
46	FUHRMAN-MASCHO	TX	-	7,277	1930
47	WARD-ESTES NORTH	TX	-	3,694	1927
48	LOST HILLS	CA	-	10,242	1910
49	EAST FORK	ND	-	2,476	1984
50	WEST SAK	AK	-	5,755	1969
	Group 41-50 Volume Subtotal		**1,140,424**	**86,413**	
51	SHO-VEL-TUM	OK	-	6,116	1905
52	WALKER RIDGE BLK 29 (BIG FOOT)	Fed Gulf	-	-	2009
53	HOWARD-GLASSCOCK	TX	-	3,519	1925
54	REUNION BAY	ND	-	4,407	2008
55	SAN ARDO	CA	-	7,229	1947
56	MISSISSIPPI CANYON BLK 503 (WHO DAT)	Fed Gulf	-	8,808	2007
57	ALGER	ND	-	8,294	2008
58	ANTELOPE	ND	-	3,737	1953
59	VENTURA	CA	-	5,115	1916
60	HOBBS	NM & TX	-	3,441	1928
	Group 51-60 Volume Subtotal		**971,942**	**50,666**	
61	BLUE BUTTES	ND	-	4,930	1955
62	GREEN CANYON BLK 903 (HEIDELBERG)	Fed Gulf	-	-	2009
63	WALKER RIDGE BLK 627 (JULIA)	Fed Gulf	-	-	2007
64	ALKALI CREEK	ND	-	2,348	1990
65	NIKAITCHUQ	AK	-	4,820	2004
66	HAWKVILLE (EAGLE FORD SHALE)	TX	-	8,226	2009
67	WOLFBONE TREND	TX	-	3,925	2008
68	CAMP	ND	-	4,308	1982
69	GRAIL	ND	-	3,223	2008
70	CHARLSON	ND	-	2,563	1952
	Group 61-70 Volume Subtotal		**825,350**	**34,343**	
71	MILNE POINT	AK	-	6,730	1982
72	YATES	TX	-	7,484	1926
73	MISSISSIPPI CANYON BLK 383 (NAKIKA - KEPLER)	Fed Gulf	-	21,206	1987
74	SACATE	Fed Pacific	-	3,093	1970
75	GREEN CANYON BLK 562 (K2)	Fed Gulf	-	3,586	2002
76	COALINGA	CA	-	5,660	1887
77	MCGREGORY BUTTES	ND	-	5,044	2008
78	PHANTOM	TX	-	10,421	1976
79	HASTINGS WEST	TX	-	2,032	1958
80	EMPIRE	NM	-	3,516	1945
	Group 71-80 Volume Subtotal		**713,225**	**68,772**	
81	KERN FRONT	CA	-	3,187	1925
82	GARDEN BANKS BLK 426 (AUGER)	Fed Gulf	-	2,415	1987
83	GARDEN CITY SOUTH	TX	-	3,464	1964
84	MURPHY CREEK	ND	-	5,111	1982

Table 1. Top 100 U.S. oil fields as of December 31, 2013 (cont.)

thousands of barrels of 42 U.S. gallons

2013 Rank	Field Name	Location	2013 Proved Reserves	2013 Estimated Production	Discovery Year
85	PINEDALE	WY	-	4,024	1955
86	GREATER ANETH	UT	-	4,131	1956
87	INGLEWOOD	CA	-	2,733	1924
88	GREEN CANYON BLK 683 (CAESAR - TONGA)	Fed Gulf	-	3,840	2006
89	FULLERTON	TX	-	4,010	1942
90	GIDDINGS	TX	-	8,247	1960
	Group 81-90 Volume Subtotal		**649,082**	**41,162**	
91	COWDEN NORTH	TX	-	3,378	1930
92	DORA ROBERTS	TX	-	1,790	1954
93	HOLT RANCH	TX	-	1,937	1954
94	JONAH	WY	-	2,270	1977
95	ROBINSON LAKE	ND	-	3,319	2006
96	HUNTINGTON BEACH	CA	-	2,251	1920
97	MISSISSIPPI CANYON BLK 84 (KING - HORN MT.)	Fed Gulf	-	6,151	1999
98	POSO CREEK	CA	-	3,325	1929
99	WALKER RIDGE BLK 469 (CHINOOK)	Fed Gulf	-	2,326	2003
100	FORT TRINIDAD	TX	-	2,096	1952
	Group 91-100 Volume Subtotal		**599,726**	**28,843**	
	Top 100 Oil Fields Volume Subtotal		**20,608,237**	**1,333,372**	
	Top 100 Percentage of U.S. Total		**56.4%**	**48.9%**	
	U.S. TOTAL CRUDE OIL & LEASE CONDENSATE (2013)		**36,520,000**	**2,729,000**	

Note: In some fields, only one or very few operators are the source of proved reserves estimates. Therefore, EIA does not provide field-specific proved reserves estimates in order to avoid compromising proprietary data. Instead, EIA combines the proved reserves estimates of the top 100 fields into groups of 10 to provide a sense of the operated concentration of total proved reserves, while still protecting data sources.

Source of proved reserves and estimated production: U.S. Energy Information Administration, Form EIA-23L, Annual Survey of Domestic Oil and Gas Reserves, 2013. Field production estimates are reported by operators. The estimated production total in this table differs slightly from the official EIA 2013 U.S. total production estimate (2,717,876,000 barrels). Source of field discovery years: U.S. Energy Information Administration, *Field Code Master List 2013*.

Table 2. Top 100 U.S. gas fields as of December 31, 2013

million cubic feet at 14.73 psia and 60 degrees Fahrenheit

2013 Rank	Field Name	Location	2013 Proved Reserves	2013 Estimated Production	Discovery Year
1	MARCELLUS SHALE AREA	PA & WV	-	2,836,043	2008
2	NEWARK EAST (BARNETT SHALE)	TX	-	1,951,750	1981
3	B-43 AREA (FAYETTEVILLE SHALE)	AR	-	1,025,153	2005
4	SAN JUAN BASIN GAS AREA	CO & NM	-	1,024,962	1927
5	HAYNESVILLE SHALE UNIT	LA	-	1,425,661	2008
6	PINEDALE	WY	-	568,153	1955
7	CARTHAGE	TX	-	653,093	1936
8	JONAH	WY	-	239,233	1977
9	WATTENBERG	CO	-	304,540	1970
10	PRUDHOE BAY	AK	-	147,554	1967
	Group 1 -10 Volume Subtotal		**144,614,724**	**10,176,142**	
11	SPRABERRY TREND AREA	TX	-	307,295	1949
12	EAGLEVILLE (EAGLE FORD SHALE)	TX	-	435,200	2009
13	BRISCOE RANCH (EAGLE FORD SHALE)	TX	-	463,182	1962
14	NATURAL BUTTES	UT	-	277,901	1940
15	HUGOTON GAS AREA	KS & OK & TX	-	222,304	1922
16	MAMM CREEK	CO	-	133,950	1959
17	HAWKVILLE (EAGLE FORD SHALE)	TX	-	213,946	2008
18	ARDMORE	OK	-	5,191	1942
19	ANADARKO BASIN (WOODFORD)	OK	-	136,085	2008
20	FOGARTY CREEK	WY	-	29,127	1975
	Group 11-20 Volume Subtotal		**36,652,912**	**2,224,181**	
21	OWEN	TX	-	89,055	1968
22	LAKE RIDGE	WY	-	13,254	1981
23	SUGARKANE	TX	-	155,603	2009
24	WATONGA-CHICKASHA TREND	OK	-	123,653	1948
25	PRB COAL BED	MT & WY	-	303,385	1992
26	DE WITT	TX	-	97,866	1959
27	RULISON	CO	-	117,742	1958
28	GRAND VALLEY	CO	-	132,330	1985
29	ANTRIM (ANTRIM SHALE)	MI	-	102,076	1965
30	BIG SANDY	KY & WV	-	66,667	1926
	Group 21 - 30 Volume Subtotal		**16,501,143**	**1,201,631**	
31	STILES RANCH	OK & TX	-	138,838	1978
32	PARACHUTE	CO	-	98,863	1985
33	MADDEN	WY	-	74,301	1968
34	KNOX	OK	-	42,959	1916
35	GATES RANCH	TX	-	66,277	1968
36	OAKWOOD	VA	-	63,293	1990
37	RATON BASIN GAS AREA	CO & NM	-	110,491	1998
38	TERRYVILLE	LA	-	27,020	1959
39	LOWER MOBILE BAY AREA	AL & Fed Gulf	-	83,182	1979
40	GOLDEN TREND	OK	-	43,388	1945
	Group 31-40 Volume Subtotal		**10,615,858**	**748,612**	
41	WAYNESBURG	PA	-	10,364	1889
42	ARMENIA	PA	-	83,440	2008

Table 2. Top 100 U.S. gas fields as of December 31, 2013 (cont.)

million cubic feet at 14.73 psia and 60 degrees Fahrenheit

2013 Rank	Field Name	Location	2013 Proved Reserves	2013 Estimated Production	Discovery Year
43	BRUFF	WY	-	50,591	1969
44	BEAR GRASS	TX	-	54,309	1977
45	HERRICK	PA	-	79,854	2008
46	ELK HILLS	CA	-	88,681	1919
47	FREESTONE	TX	-	53,831	1949
48	PINE HOLLOW SOUTH	OK	-	62,443	1959
49	ELM GROVE	LA	-	33,742	1916
50	PARACHUTE NORTH	CO	-	52,247	2007
	Group 41-50 Volume Subtotal		**7,823,926**	**569,502**	
51	BUFFALO WALLOW	TX	-	56,351	1969
52	ECHO SPRINGS	WY	-	33,677	1976
53	CHAPITA WELLS	UT	-	2,351	1952
54	BIG RUN-BIRCHFIELD	WV	-	21,971	1905
55	NORA	VA	-	38,988	1949
56	WAMSUTTER	WY	-	39,529	1958
57	BALD PRAIRIE	TX	-	57,381	1976
58	OAK HILL	TX	-	60,051	1958
59	SAWYER	TX	-	39,768	1960
60	MAJORSVILLE	PA & WV	-	644	1905
	Group 51-60 Volume Subtotal		**6,693,930**	**350,711**	
61	STRONG CITY DISTRICT	OK	-	53,679	1966
62	STANDARD DRAW	WY	-	30,235	1979
63	CASPIANA	LA	-	37,287	1925
64	JOHN AMORUSO	TX	-	24,567	2005
65	CHEROKEE WEST	OK	-	32,378	1956
66	WILD ROSE	WY	-	27,265	1975
67	AUBURN	WV	-	17,781	1923
68	FRENCHIE DRAW	WY	-	19,904	1961
69	RILEY RIDGE	WY	-	50	1980
70	GIDDINGS	TX	-	64,523	1960
	Group 61-70 Volume Subtotal		**5,223,468**	**307,669**	
71	WASSON	TX	-	31,042	1937
72	COALGATE NE	OK	-	21,611	2003
73	YELLOWJACKET	CO	-	62,381	2009
74	BEND NORTH	PA	-	2,343	1951
75	RED WASH	UT	-	13,738	1959
76	GOLDSMITH	TX	-	24,538	1935
77	FARRAR	TX	-	40,429	1963
78	TIP TOP	WY	-	11,069	1928
79	TRAIL	WY	-	15,478	1958
80	MISSISSIPPI CANYON BLK 854 (URSA)	Fed Gulf	-	27,984	1991
	Group 71-80 Volume Subtotal		**4,269,831**	**250,613**	
81	LOVE RANCH	CO	-	29,322	1999
82	MISSISSIPPI CANYON BLK 807 (MARS)	Fed Gulf	-	20,458	1989
83	LIN	TX	-	29,391	1984
84	MOUNDSVILLE	WV	-	23,839	1887

Table 2. Top 100 U.S. gas fields as of December 31, 2013 (cont.)

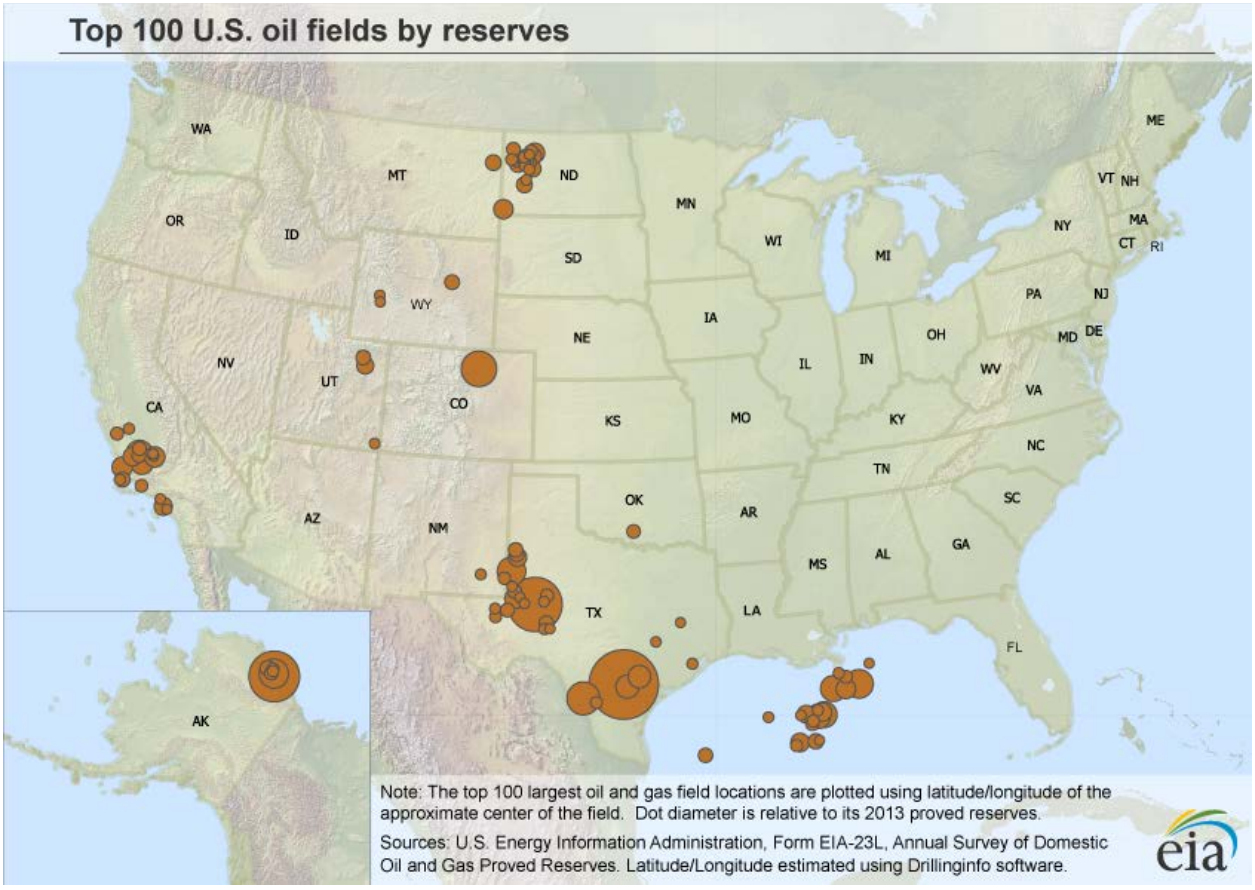
million cubic feet at 14.73 psia and 60 degrees Fahrenheit

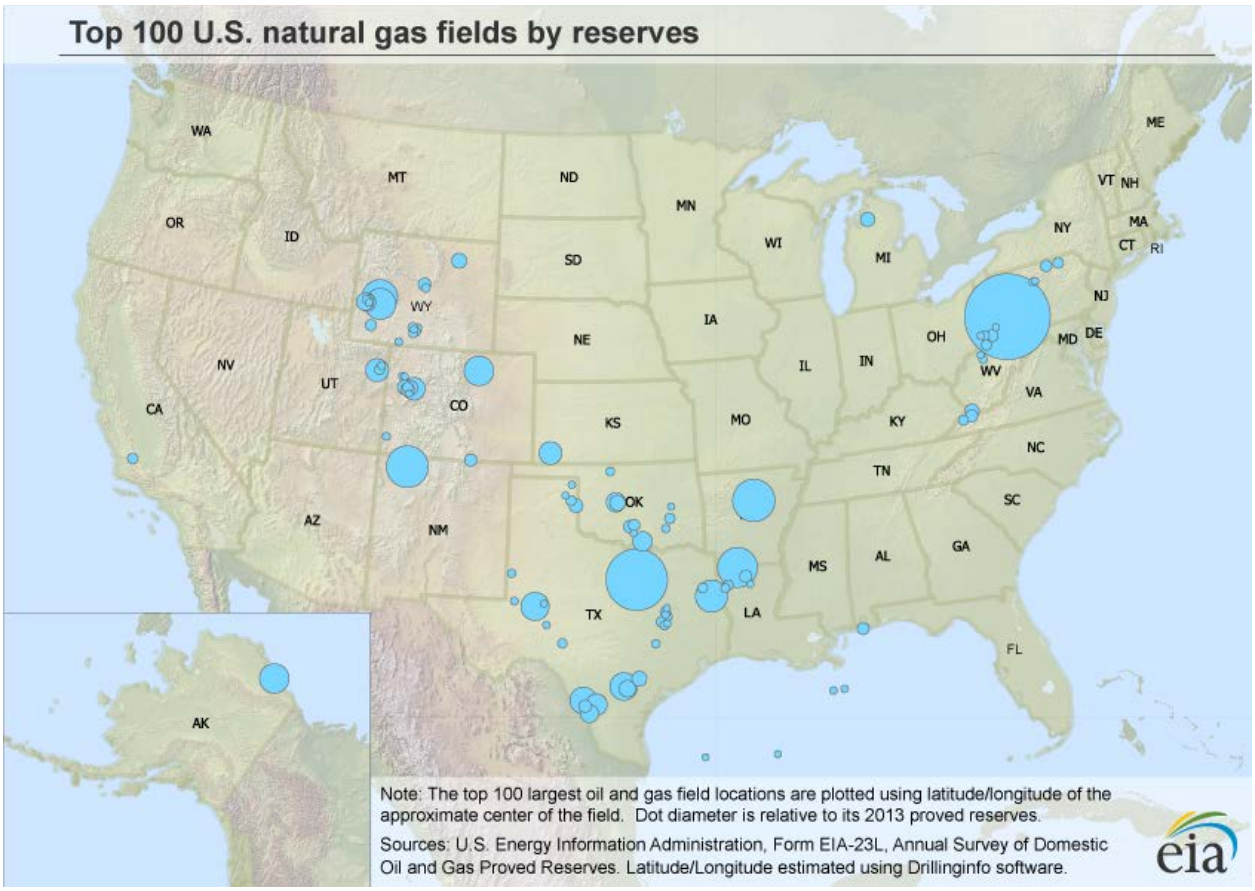
2013 Rank	Field Name	Location	2013 Proved Reserves	2013 Estimated Production	Discovery Year
85	MENDOTA NW	TX	-	40,467	1962
86	LIPSCOMB	OK & TX	-	37,358	1957
87	TIERNEY	WY	-	14,006	1973
88	VEGA NORTH	CO	-	19,718	1977
89	KEATHLEY CANYON BLK 964 (HADRIAN SOUTH)	Fed Gulf	-	-	2009
90	MAYFIELD NE	OK	-	37,569	1951
	Group 81-90 Volume Subtotal		**3,787,022**	**252,128**	
91	HILLTOP RESORT	TX	-	23,585	2007
92	GRUGAN	PA	-	33,952	1982
93	BELLEVERNON	PA	-	4,062	1887
94	GARDEN CITY SOUTH	TX	-	14,345	1964
95	VERNON	LA	-	23,978	1967
96	PENNSBORO-TOLLGATE	WV	-	11,046	-
97	SHO-VEL-TUM	OK	-	24,449	1905
98	TEAGUE (CV-BOSSIER CONS.)	TX	-	32,319	1945
99	PICEANCE CREEK	CO	-	26,326	1930
100	ALAMINOS CANYON BLK 857 (GREAT WHITE)	Fed Gulf	-	34,350	2002
	Group 91-100 Volume Subtotal		**3,473,473**	**228,412**	
	TOP 100 GAS FIELDS VOLUME SUBTOTAL		**239,656,287**	**16,309,601**	
	Top 100 Percentage of U.S. Total		**67.7%**	**61.6%**	
	U.S. TOTAL NATURAL GAS (2013)		**353,994,000**	**26,467,000**	

Note: In some fields, only one or very few operators are the source of proved reserves estimates. Therefore EIA does not provide field-specific proved reserves estimates in order to avoid compromising proprietary data. Instead, EIA combines the proved reserves estimates of the top 100 fields into groups of 10 to provide a sense of the operated concentration of total proved reserves, while still protecting data sources. *Marcellus Shale Area* was calculated from estimates of shale gas of Pennsylvania and West Virginia.
Source of proved reserves and estimated production: U.S. Energy Information Administration, Form EIA-23L, Annual Survey of Domestic Oil and Gas Reserves, 2013. The estimated production total in this table differs slightly from the official EIA 2013 U.S. marketed gas production estimate (27,259,815,000,000 cubic feet).
Source of field discovery years: U.S. Energy Information Administration, *Field Code Master List 2013*.

Top 100 fields location maps

Locations of the top 100 oil and gas fields of 2013 are shown on the following maps. Many fields appear on both maps because they have significant volumes of both hydrocarbons.




Top 100 U.S. natural gas fields by reserves
WA
OR
CA
ID
NV
MT
WY
UT
AZ
CO
NM
ND
SD
NE
KS
OK
TX
MN
IA
MO
AR
LA
WI
IL
MS
MI
IN
KY
TN
AL
OH
WV
GA
FL
SC
NC
VA
PA
NY
MD
DE
NJ
CT
RI
MA
VT
NH
ME
AK
Note: The top 100 largest oil and gas field locations are plotted using latitude/longitude of the approximate center of the field. Dot diameter is relative to its 2013 proved reserves.
Sources: U.S. Energy Information Administration, Form EIA-23L, Annual Survey of Domestic Oil and Gas Proved Reserves. Latitude/Longitude estimated using Drillinginfo software.
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