

Appendix A

Operator Level Data

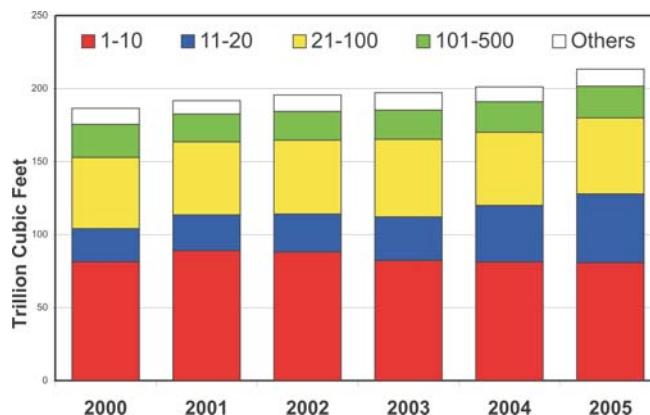
Operator Level Data

This appendix provides a series of tables of the proved reserves and production by production size class for the years 2000 through 2005 for crude oil and natural gas well operators. The tables show the volumetric change and percent change from the previous year and from 2000. In addition they show the 2005 average per operator in each class. All companies that reported to EIA were ranked by production size for each of the 6 years. We computed company production size classes as the sum of the barrel oil equivalent of the crude oil production, lease condensate production, and wet gas production for each operator. The companies were then placed in the following production size classes: 1-10, 11-20, 21-100, 101-500, and all "other" oil and gas operators. The "other" category contains 14,658 small operators. We estimated production and reserves for small operators for 2005 from a sample of approximately 3 percent.

Class 1-10 contains the 10 highest producing companies each year on a barrel oil equivalent basis. These companies are not necessarily the same 10 companies each year.

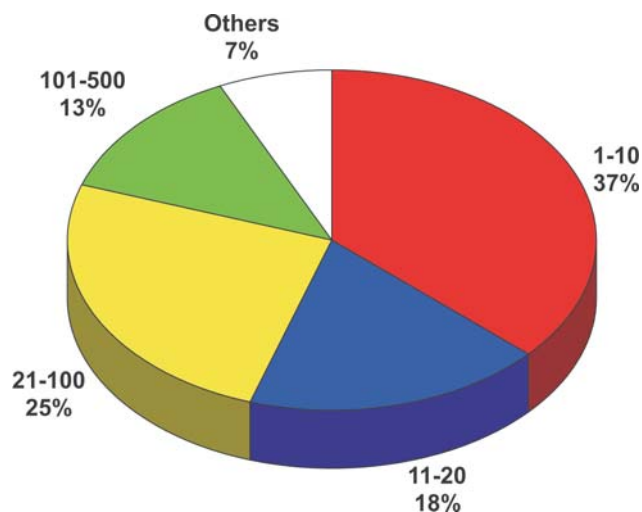
Natural Gas Proved Reserves

The wet natural gas proved reserves reported for 2000 through 2005 have changed from 186,510 billion cubic feet to 213,308 billion cubic feet (**Table A1**). These proved reserves are concentrated in the larger companies. In 2005, the top 20 operators (Class 1-10 and Class 11-20) producing companies had 60 percent of the proved reserves of natural gas. The next two size classes contain 80 and 400 companies and account for 24 and 10 percent of the U.S. natural gas proved reserves, respectively. The top 20 operators had an increase of 23 percent in their natural gas proved reserves from 2000 to 2005. The rest of the operators in (Class 21-100, Class 101-500, and Class Other) had an increase of 3 percent in their reserves in the same time period. In 2005, the top 20 operators' natural gas reserves had an increase of 7 percent from 2004.



Natural Gas Production

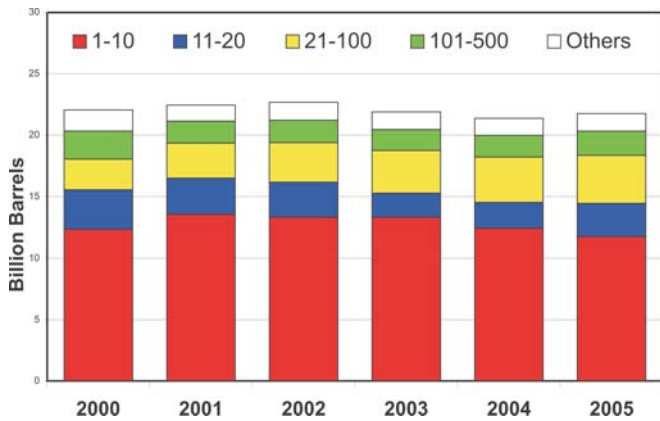
Wet natural gas production has decreased from 20,017 billion cubic feet in 2004 to 19,259 billion cubic feet in 2005 (**Table A2**). In 2005, the top 20 producing companies had 55 percent of the production of wet natural gas. The next two size classes have 25 and 13 percent of the wet natural gas production, respectively. The top 20 operators had a decrease of 7 percent in wet natural gas production from 2000 to 2005. The rest of the operators had a decrease of 1 percent from 2000 to 2005. The top 20 operators' wet natural gas production had a decrease of 6 percent in 2005 from 2004.



Crude Oil Proved Reserves

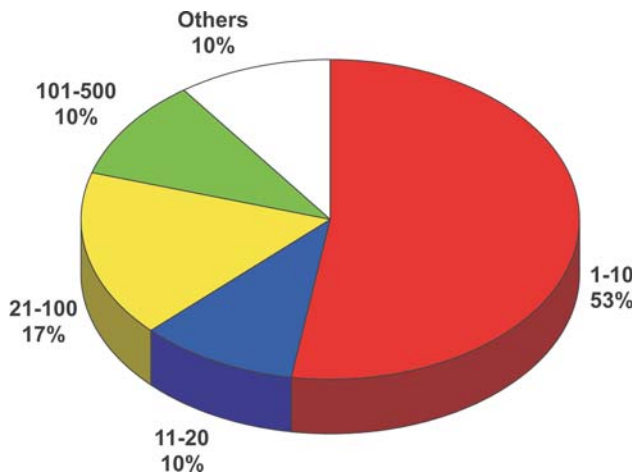
The 10 largest producing companies in 2005 had 54 percent of U.S. proved reserves of crude oil. While the 10 largest producing companies in 2005 had 54 percent of U.S. proved reserves of natural gas. The 20 largest oil and gas producing companies in 2005 had 66 percent of U.S. proved reserves of crude oil (**Table A3**), in contrast to wet natural gas where these same companies operated 60 percent of the total proved reserves.

U.S. proved reserves of crude oil increased 2 percent in 2005 from 2004. The top 20 producing companies proved reserves of crude oil during 2005 remained the same from 2004. The top 20 class had a decrease of 6 percent in their crude oil proved reserves from 2000 to 2005.



Crude Oil Production

Crude oil production reported for 2000 to 2005 has decreased from 1,819 million barrels to 1,733 million barrels (**Table A4**). The 20 largest oil and gas producing



companies had 63 percent of U.S. production of crude oil in 2005. In 2000 they accounted for 67 percent of production.

This is in contrast to wet natural gas where these same companies produced 55 percent of the total. U.S. production of crude oil declined by 8 percent from 2000 to 2005. The top 20 operators had a decline of 14 percent in their oil production during the same period. U.S. production of crude oil declined 5 percent from 2004 to 2005. In the same period the top 20 operators production decreased by 7 percent.

Crude Oil and Natural Gas Fields

The number of fields in which Category I and Category II operators were active increased during the 2000-2005 period (**Table A5**). From 2000-2005, the number of fields in which the top 20 operators were active increased by 859 fields (16 percent) while in 2005 the number decreased by 535 fields from 2004.

We also include statistics for operator Category sizes at the bottom portion of tables in this appendix. These are the categories used by EIA in processing and assessing reserves surveys and are presented here as additional perspective. For further explanation of categories sizes see definitions and descriptions in Appendix E.

Ranked Crude Oil and Natural Gas Production

Table A6 lists the top U.S. Oil and gas operators ranked by reported 2005 operated production data.

Operators Formerly in the Ranks of the Top 50 Reported for the U.S. 1999-2005

Number	Formerly Operated As	Currently Operated By
1	AEC Oil & Gas (USA) Inc	Encana Oil & Gas Inc
2	Agip Petroleum Co Inc	Eni SpA
3	Altura Energy Ltd	Occidental Petroleum Corp
4	Arco Exploration & Production	BP Plc
5	Arguello Inc	Plains Explor & Prod Co
6	Barrett Resources Corp	Williams Energy Inc
7	BP Amoco	BP Plc
8	British Borneo USA Inc	Eni SpA
9	C N G Producing Co	Dominion Resources Inc
10	Chevron USA Production Co	ChevronTexaco Inc
11	Coastal Oil & Gas Corp	El Paso Energy
12	Coho Resources Inc	Denbury Resources Inc
13	Conoco Inc	ConocoPhillips Co
14	Evergreen Operating Corp	Pioneer Natural Resources USA
15	Fina Oil & Chemical Co	Total SA
16	Gruy Petroleum Management Co	Cimarex Energy Co
17	Helmerich & Payne Inc	Cimarex Energy Co
18	Howell Petroleum Corp	Anadarko Petroleum Corp
19	HS Resources Inc	Kerr-McGee Corp
20	Louis Dreyfus Natural Gas Corp	Dominion Resources Inc
21	Mitchell Energy & Development Corp	Devon Energy Corp
22	Nuevo Energy Co	Plains Explor & Prod Co
23	Ocean Energy Inc	Devon Energy Corp
24	Patina Oil & Gas Corp	Noble Energy Inc
25	Phillips Petroleum Co	ConocoPhillips Co
26	Prize Operating Co	Cimarex Energy Co
27	River Gas Corp	ConocoPhillips Co
28	Santa Fe Snyder Corp	Devon Energy Corp
29	Stocker Resources Inc	Plains Explor & Prod Co
30	Texaco Inc	ChevronTexaco Inc
31	Tom Brown Inc	Encana Oil & Gas Inc
32	Union Pacific Resources	Anadarko Petroleum Corp
33	Unocal Corp	Chevron Texaco Inc
34	Vastar Resources Inc	BP Plc
35	Westport Resources Corp	Kerr-McGee Corp

Table A1. Natural Gas Proved Reserves, Wet After Lease Separation, by Operator Production Size Class, 2000–2005
(Billion Cubic Feet at 14.73 psia and 60° Fahrenheit)

Size Class	2000	2001	2002	2003	2004	2005	2004–2005 Volume and Percent Change	2000–2005 Volume and Percent Change	2005 Average Reserves per Operator
Class 1-10	81,437	88,936	88,100	82,222	81,325	80,785	-540	-652	8,078.512
Percent of Total	43.7%	46.4%	45.0%	41.7%	40.4%	37.9%	-0.7%	-0.8%	
Class 11-20	22,590	24,588	25,938	29,890	38,643	47,078	8,435	24,488	4,707.841
Percent of Total	12.1%	12.8%	13.3%	15.2%	19.2%	22.1%	21.8%	108.4%	
Class 21-100	48,832	50,055	50,633	53,098	50,149	52,061	1,912	3,229	650.767
Percent of Total	26.2%	26.1%	25.9%	26.9%	24.9%	24.4%	3.8%	6.6%	
Class 101-500	22,620	19,046	19,723	20,030	20,912	21,737	825	-884	54.341
Percent of Total	12.1%	9.9%	10.1%	10.2%	10.4%	10.2%	3.9%	-3.9%	
Class Other (14,658)	11,030	9,118	11,167	11,905	10,170	11,647	1,477	617	0.795
Percent of Total	5.9%	4.8%	5.7%	6.0%	5.1%	5.5%	14.5%	5.6%	
Category I (172)	162,144	169,056	173,325	173,225	178,269	189,644	11,375	27,500	1,102.582
Percent of Total	86.9%	88.2%	88.6%	87.9%	88.6%	88.9%	6.4%	17.0%	
Category II (522)	13,123	13,346	11,051	11,983	12,494	11,838	-656	-1,286	22.678
Percent of Total	7.0%	7.0%	5.7%	6.1%	6.2%	5.5%	-5.3%	-9.8%	
Category III (14,464)	11,243	9,342	11,184	11,937	10,437	11,826	1,389	583	0.818
Percent of Total	6.0%	4.9%	5.7%	6.1%	5.2%	5.5%	13.3%	5.2%	
Total Published	186,510	191,743	195,561	197,145	201,200	213,308	12,108	26,798	14.072
Percent of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	6.0%	14.4%	

R = Revised

Note: There were 14,464 active Category III operators in the 2005 sample frame. The reserves and production of Category III operators were estimated from an adjusted sample of 661 Category III operators (Table E2). The "other" size class represents 14,658 operators in the 2005 frame (15,158 active operators minus the 500 largest operators).

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

Table A2. Natural Gas Production, Wet After Lease Separation, by Operator Production Size Class, 2000–2005
(Billion Cubic Feet at 14.73 psia and 60° Fahrenheit)

Size Class	2000	2001	2002	2003	2004	2005	2004–2005 Volume and Percent Change	2000–2005 Volume and Percent Change	2005 Average Production per Operator
Class 1-10	8,495	9,019	8,996	8,220	7,617	7,068	-548	-1,426	706.833
Percent of Total	42.1%	43.7%	44.4%	40.6%	38.1%	36.7%	-7.2%	-16.8%	
Class 11-20	2,886	3,064	2,854	3,136	3,647	3,534	-112	648	353.437
Percent of Total	14.3%	14.8%	14.1%	15.5%	18.2%	18.4%	-3.1%	22.5%	
Class 21-100	4,965	4,949	4,763	5,275	4,982	4,832	-150	-133	60.402
Percent of Total	24.6%	24.0%	23.5%	26.1%	24.9%	25.1%	-3.0%	-2.7%	
Class 101-500	2,780	2,609	2,475	2,386	2,559	2,506	-52	-274	6.266
Percent of Total	13.8%	12.6%	12.2%	11.8%	12.8%	13.0%	-2.0%	-9.9%	
Class Other (14,658)	1,038	1,000	1,161	1,215	1,213	1,318	105	280	0.090
Percent of Total	5.1%	4.8%	5.7%	6.0%	6.1%	6.8%	8.6%	26.9%	
Category I (172)	17,096	17,672	17,335	17,347	17,036	16,311	-724	-784	94.834
Percent of Total	84.8%	85.6%	85.6%	85.7%	85.1%	84.7%	-4.3%	-4.6%	
Category II (522)	1,921	1,932	1,738	1,648	1,718	1,605	-113	-316	3.075
Percent of Total	9.5%	9.4%	8.6%	8.1%	8.6%	8.3%	-6.6%	-16.5%	
Category III (14,464)	1,147	1,038	1,176	1,236	1,263	1,342	80	195	0.093
Percent of Total	5.7%	5.0%	5.8%	6.1%	6.3%	7.0%	6.3%	17.0%	
Total Published	20,164	20,642	20,248	20,231	20,017	19,259	-758	-905	1.271
Percent of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	-3.8%	-4.5%	

R = Revised

Note: There were 14,464 active Category III operators in the 2005 sample frame. The reserves and production of Category III operators were estimated from an adjusted sample of 661 Category III operators (Table E2). The "other" size class represents 14,658 operators in the 2005 frame (15,158 active operators minus the 500 largest operators).

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

Table A3. Crude Oil Proved Reserves by Operator Production Size Class, 2000–2005
(Million Barrels of 42 U.S. Gallons)

Size Class	2000	2001	2002	2003	2004	2005	2004–2005 Volume and Percent Change	2000–2005 Volume and Percent Change	2005 Average Reserves per Operator
Class 1-10	12,367	13,590	13,346	13,355	12,454	11,775	-679	-592	1,177.522
Percent of Total	56.1%	60.5%	58.9%	61.0%	58.3%	54.1%	-5.4%	-4.8%	
Class 11-20	3,172	2,901	2,817	1,907	2,053	2,659	607	-512	265.939
Percent of Total	14.4%	12.9%	12.4%	8.7%	9.6%	12.2%	29.6%	-16.2%	
Class 21-100	2,505	2,856	3,230	3,483	3,711	3,915	204	1,410	48.934
Percent of Total	11.4%	12.7%	14.2%	15.9%	17.4%	18.0%	5.5%	56.3%	
Class 101-500	2,286	1,794	1,817	1,705	1,761	1,969	208	-317	4.923
Percent of Total	10.4%	8.0%	8.0%	7.8%	8.2%	9.1%	11.8%	-13.9%	
Class Other (14,658)	1,716	1,305	1,468	1,440	1,393	1,439	46	-277	0.098
Percent of Total	7.8%	5.8%	6.5%	6.6%	6.5%	6.6%	3.3%	-16.2%	
Category I (172)	19,421	20,325	20,213	19,499	19,055	19,348	292	-74	112.486
Percent of Total	88.1%	90.6%	89.1%	89.1%	89.2%	88.9%	1.5%	-0.4%	
Category II (522)	873	794	992	937	906	954	48	81	1.827
Percent of Total	4.0%	3.5%	4.4%	4.3%	4.2%	4.4%	5.3%	9.3%	
Category III (14,464)	1,751	1,326	1,472	1,456	1,410	1,456	46	-295	0.101
Percent of Total	7.9%	5.9%	6.5%	6.6%	6.6%	6.7%	3.3%	-16.9%	
Total Published	22,045	22,446	22,677	21,891	21,371	21,757	386	-288	1.435
Percent of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	1.8%	-1.3%	

R = Revised

Note: There were 14,464 active Category III operators in the 2005 sample frame. The reserves and production of Category III operators were estimated from an adjusted sample of 661 Category III operators (Table E2). The "other" size class represents 14,658 operators in the 2005 frame (15,158 active operators minus the 500 largest operators).

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

Table A4. Crude Oil Production by Operator Production Size Class, 2000–2005
(Million Barrels of 42 U.S. Gallons)

Size Class	2000	2001	2002	2003	2004	2005	2004–2005 Volume and Percent Change	2000–2005 Volume and Percent Change	2005 Average Production per Operator
Class 1-10	961	1,061	1,037	1,047	986	912	-75	-49	91.179
Percent of Total	51.1%	55.4%	55.3%	55.8%	54.2%	52.6%	-7.6%	-5.1%	
Class 11-20	304	240	233	205	180	178	-3	-127	17.766
Percent of Total	16.2%	12.5%	12.4%	10.9%	9.9%	10.3%	-1.4%	-41.7%	
Class 21-100	214	233	240	272	303	293	-10	79	3.661
Percent of Total	11.4%	12.2%	12.8%	14.5%	16.6%	16.9%	-3.2%	37.0%	
Class 101-500	211	195	181	178	172	178	6	-33	0.445
Percent of Total	11.2%	10.2%	9.7%	9.5%	9.5%	10.3%	3.4%	-15.6%	
Class Other (14,658)	190	186	184	175	178	173	-5	-17	0.012
Percent of Total	10.1%	9.7%	9.8%	9.3%	9.8%	10.0%	-2.8%	-9.0%	
Category I (172)	1,572	1,612	1,573	1,574	1,534	1,451	-83	-121	8.438
Percent of Total	83.6%	84.2%	83.9%	83.9%	84.3%	83.7%	-5.4%	-7.7%	
Category II (522)	111	112	115	124	105	105	0	-6	0.202
Percent of Total	5.9%	5.8%	6.1%	6.6%	5.8%	6.1%	-0.2%	-5.0%	
Category III (14,464)	197	191	187	179	180	176	-3	-21	0.012
Percent of Total	10.5%	10.0%	10.0%	9.5%	9.9%	10.2%	-1.8%	-10.6%	
Total Published	1,880	1,915	1,875	1,877	1,819	1,733	-86	-147	0.114
Percent of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	-4.7%	-7.8%	

R = Revised

Note: There were 14,464 active Category III operators in the 2005 sample frame. The reserves and production of Category III operators were estimated from an adjusted sample of 661 Category III operators (Table E2). The "other" size class represents 14,658 operators in the 2005 frame (15,158 active operators minus the 500 largest operators).

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

Table A5. Operator Field Count by Operator Production Size Class, 2000–2005

Size Class	2000	2001	2002	2003	2004	2005	2004–2005 Number and Percent Change	2000–2005 Number and Percent Change	2005 Average Number of Fields per Operator
Class 1-10	3,444	3,794	3,596	3,689	3,409	3,738	329	294	373.800
Percent of Total	13.0%	14.0%	12.9%	13.2%	12.4%	13.2%	9.7%	8.5%	
Class 11-20	1,923	2,212	2,392	2,492	3,352	2,488	-864	565	248.800
Percent of Total	7.2%	8.2%	8.6%	8.9%	12.2%	8.8%	-25.8%	29.4%	
Class 21-100	7,084	7,195	7,947	8,168	8,071	9,196	1,125	2,112	114.950
Percent of Total	26.7%	26.5%	28.4%	29.3%	29.4%	32.6%	13.9%	29.8%	
Class 101-500	12,580	12,435	12,661	11,859	10,698	10,845	147	-1,735	27.113
Percent of Total	47.4%	45.9%	45.3%	42.5%	39.0%	38.4%	1.4%	-13.8%	
Rest	1,529	1,480	1,349	1,709	1,929	1,952	23	423	10.062
Percent of Total	5.8%	5.5%	4.8%	6.1%	7.0%	6.9%	1.2%	27.7%	
Category I	16,174	16,196	17,049	16,760	17,368	17,858	490	1,684	103.826
Percent of Total	60.9%	59.7%	61.0%	60.0%	63.3%	63.3%	2.8%	10.4%	
Category II	10,146	10,764	10,473	10,688	9,486	9,738	252	-408	18.655
Percent of Total	38.2%	39.7%	37.5%	38.3%	34.5%	34.5%	2.7%	-4.0%	
Total	26,560	27,116	27,945	27,917	27,459	28,219	760	1,659	40.661
Percent of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	2.8%	6.2%	

Note: Includes only data from Category I and Category II operators. In 2005 there were 172 Category I operators and 522 Category II operators. The "rest" size class had 194 operators in 2005.

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

Table A6. Top 50 U.S. Operators Ranked by Reported 2005 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	825	1	BP PLC	3,465
2	CHEVRON CORP.	478	2	CHEVRON CORP.	2,355
3	CONOCOPHILLIPS	346	3	CONOCOPHILLIPS	2,110
4	SHELL OIL CO	324	4	EXXONMOBIL CORP.	2,057
5	OCCIDENTAL OIL & GAS CORP.	283	5	DEVON ENERGY CORP.	2,002
6	AERA ENERGY LLC	199	6	BURLINGTON RESOURCES INC.	1,942
7	EXXONMOBIL CORP.	145	7	CHESAPEAKE ENERGY CORP.	1,657
8	KERR-MCGEE CORP.	133	8	SHELL OIL CO	1,608
9	APACHE CORP.	91	9	ANADARKO PETROLEUM CORP.	1,471
10	AMERADA HESS CORP.	72	10	ENCANA CORP.	1,419
		Top 10 Volume Subtotal			Top 10 Volume Subtotal
		2,896			20,086
		Top 10 Percentage of U.S. Total			Top 10 Percentage of U.S. Total
		55%			38%
11	PLAINS EXPLORATION & PRODUCTION CO	59	11	KERR-MCGEE CORP.	1,371
12	KINDER MORGAN, INC.	57	12	XTO ENERGY INC.	1,342
13	DEVON ENERGY CORP.	54	13	APACHE CORP.	1,110
14	BURLINGTON RESOURCES INC.	52	14	E O G RESOURCES INC.	1,066
15	ANADARKO PETROLEUM CORP.	52	15	DOMINION RESOURCES INC.	1,040
16	MARATHON OIL CORP.	50	16	EL PASO ENERGY	826
17	MERIT ENERGY CO	47	17	OCCIDENTAL OIL & GAS CORP.	809
18	MURPHY OIL CORP.	46	18	MARATHON OIL CORP.	741
19	NOBLE ENERGY INC.	37	19	WILLIAMS ENERGY INC.	719
20	XTO ENERGY INC.	37	20	NEWFIELD EXPLORATION CO	690
		Top 20 Volume Subtotal			Top 20 Volume Subtotal
		3,387			29,800
		Top 20 Percentage of U.S. Total			Top 20 Percentage of U.S. Total
		65%			56%
21	E O G RESOURCES INC.	32	21	SAMSON RESOURCES CO	633
22	CITY OF LONG BEACH	31	22	PIONEER NATURAL RESOURCES	630
23	DOMINION RESOURCES INC.	29	23	QUESTAR CORP.	594
24	CITATION OIL & GAS CORP.	28	24	NOBLE ENERGY INC.	538
25	CHESAPEAKE ENERGY CORP.	28	25	CIMAREX ENERGY CO.	455
26	DENBURY RESOURCES INC.	28	26	MERIT ENERGY CO	425
27	PIONEER NATURAL RESOURCES	25	27	ENERGEN RESOURCES CORP.	303
28	HILCORP ENERGY CO	24	28	HOUSTON EXPLORATION CO.	295
29	NEWFIELD EXPLORATION CO	24	29	YATES PETROLEUM CORP.	282
30	POGO PRODUCING CO	23	30	AMERADA HESS CORP.	264
31	WHITING PETROLEUM CORP.	23	31	FOREST OIL CORP.	261
32	BERRY PETROLEUM CO	21	32	POGO PRODUCING CO	259
33	ENCORE OPERATING LP	21	33	HUNT OIL CO.	245
34	VINTAGE PETROLEUM INC.	20	34	EQUITABLE RESOURCES INC.	238
35	CIMAREX ENERGY CO.	19	35	CABOT OIL & GAS CORP.	230
36	FOREST OIL CORP.	19	36	TOTALFINAELF SA	226
37	CONTINENTAL RESOURCES INC.	19	37	HILCORP ENERGY CO	222
38	NANCE PETROLEUM CORP.	19	38	ULTRA PETROLEUM INC.	208
39	ENDEAVOR ENERGY RESOURCES	18	39	WALTER OIL & GAS CORP.	179
40	ENI PETROLEUM CO INC.	18	40	COLUMBIA NATURAL RESOURCES LLC	176
41	EL PASO ENERGY	18	41	STONE ENERGY CORP.	174
42	NEXEN PETROLEUM USA INC.	17	42	VINTAGE PETROLEUM INC.	170
43	SWIFT ENERGY OPERATING LLC.	16	43	W & T OFFSHORE INC.	162
44	HENRY PETROLEUM LP.	15	44	RED WILLOW PRODUCTION CO.	162
45	ENERGEN RESOURCES CORP.	15	45	FIDELITY EXPLORATION & PROD CO	157
46	STONE ENERGY CORP.	14	46	C N X GAS CO LLC	151
47	HEADINGTON RESOURCES INC.	13	47	KAISER - FRANCIS OIL CO.	148
48	ENCANA CORP.	12	48	KCS ENERGY INC.	147
49	BREITBURN ENERGY CO LP.	12	49	ENERGY PARTNERS LTD	143
50	CASTLE PEAK RESOURCES LLC	11	50	UNIT CORP.	142
		Top 50 Volume Subtotal			Top 50 Volume Subtotal
		3,999			38,019
		Top 50 Percentage of U.S. Total			Top 50 Percentage of U.S. Total
		77%			72%

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

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