

Appendix A

## **Operator Level Data**



## Appendix A

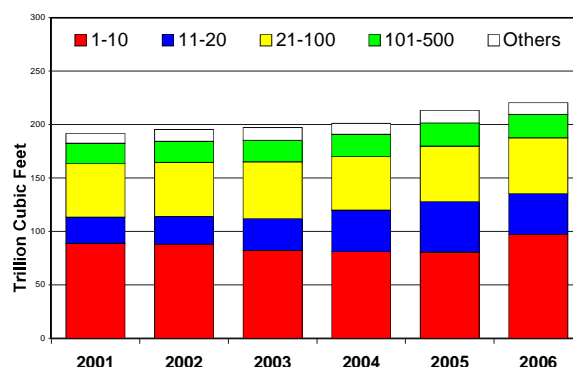
# Operator Level Data

This appendix provides a series of tables of the proved reserves and production by production size class for the years 2001 through 2006 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 2006 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 2006 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.

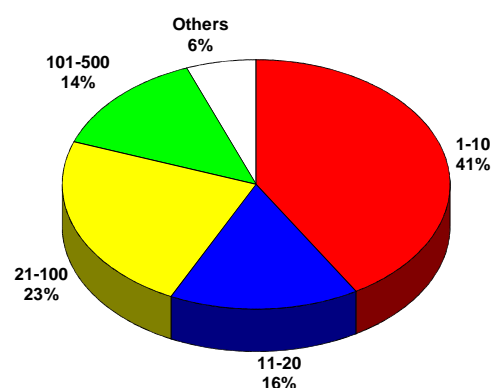
## Natural Gas Proved Reserves

The wet natural gas proved reserves reported for 2001 through 2006 have changed from 191,743 billion cubic feet to 220,416 billion cubic feet (**Table A1**). These proved reserves are concentrated in the larger companies. In 2006, the top 20 operators (Class 1-10 and Class 11-20) producing companies had 61 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 19 percent in their natural gas proved reserves from 2001 to 2006. The rest of the operators in (Class 21-100, Class 101-500, and Class Other) had an increase of 7 percent in their reserves in the same time period. In 2006, the top 20 operators' natural gas reserves had an increase of 6 percent from 2005.



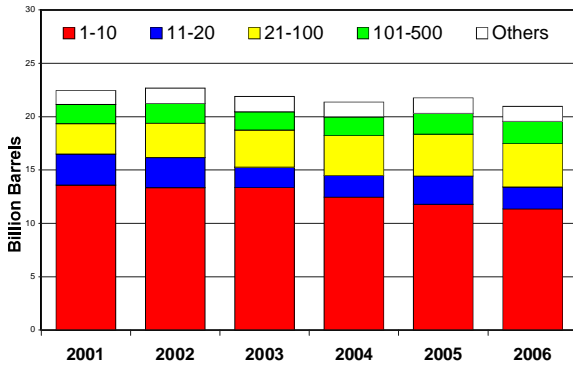
## Natural Gas Production

Wet natural gas production has increased from 19,259 billion cubic feet in 2005 to 19,373 billion cubic feet in 2006 (**Table A2**). In 2006, the top 20 producing companies had 57 percent of the production of wet natural gas. The next two size classes have 23 and 13 percent of the wet natural gas production, respectively. The top 20 operators had a decrease of 9 percent in wet natural gas production from 2001 to 2006. The rest of the operators had a decrease of 3 percent from 2001 to 2006.



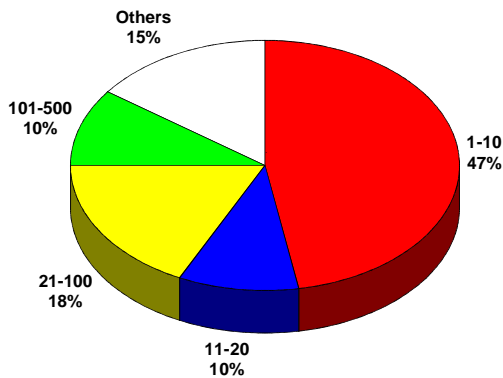
## Crude Oil Proved Reserves

The 10 largest producing companies in 2006 had 54 percent of U.S. proved reserves of crude oil. The 20 largest oil and gas producing companies in 2006 had 64 percent of proved reserves of crude oil (Table A3). Proved reserves of crude oil decreased 4 percent in 2006 from 2005.



## Crude Oil Production

Crude oil production reported for 2005 to 2006 has decreased from 1,733 million barrels to 1,652 million barrels (Table A4). The 20 largest oil and gas producing companies had 60 percent of U.S. production of crude oil in 2006. In 2005 they accounted for 63 percent of production.



## Crude Oil and Natural Gas Fields

The number of fields in which Category I and Category II operators were active increased during the 2001-2006 period (Table A5). From 2001-2006, the number of fields in which the top 20 operators were active increased by 1,174 fields (20 percent) while in 2006 the number increased by 954 fields from 2005.

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 2006 operated production data.

**Table A1. Natural Gas Proved Reserves, Wet After Lease Separation, by Operator Production Size Class, 2001–2006**

(Billion Cubic Feet at 14.73 pia and 60° Fahrenheit)

Size Class	2001	2002	2003	2004	2005	2006	2005–2006 Volume and Percent Change	2001–2006 Volume and Percent Change	2006 Average Reserves per Operator
Class 1-10	88,936	88,100	82,222	81,325	80,785	97,372	16,587	8,436	9,737.237
Percent of Total	46.4%	45.0%	41.7%	40.4%	37.9%	44.2%	20.5%	9.5%	
Class 11-20	24,588	25,938	29,890	38,643	47,078	38,134	-8,944	13,546	3,813.421
Percent of Total	12.8%	13.3%	15.2%	19.2%	22.1%	17.3%	-19.0%	55.1%	
Class 21-100	50,055	50,633	53,098	50,149	52,061	52,064	3	2,009	650.802
Percent of Total	26.1%	25.9%	26.9%	24.9%	24.4%	23.6%	0.0%	4.0%	
Class 101-500	19,046	19,723	20,030	20,912	21,737	21,877	141	2,831	54.693
Percent of Total	9.9%	10.1%	10.2%	10.4%	10.2%	9.9%	0.6%	14.9%	
Class Other (13,320)	9,118	11,167	11,905	10,170	11,647	10,968	-678	1,850	0.823
Percent of Total	4.8%	5.7%	6.0%	5.1%	5.5%	5.0%	-5.8%	20.3%	
Category I (173)	162,144	169,056	173,325	173,225	178,269	189,644	11,375	27,500	1,102.582
Percent of Total	88.2%	88.6%	87.9%	88.6%	88.9%	82.6%	-4.0%	7.7%	
Category II (467)	13,346	11,051	11,983	12,494	11,838	27,294	15,456	13,948	58.446
Percent of Total	7.0%	5.7%	6.1%	6.2%	5.5%	12.4%	130.6%	104.5%	
Category III (13,180)	9,342	11,184	11,937	10,437	11,826	10,989	-837	1,647	0.834
Percent of Total	4.9%	5.7%	6.1%	5.2%	5.5%	5.0%	-7.1%	17.6%	
<b>Total Published</b>	<b>191,743</b>	<b>195,561</b>	<b>197,145</b>	<b>201,200</b>	<b>213,308</b>	<b>220,416</b>	<b>7,108</b>	<b>28,673</b>	<b>15.949</b>

Note: There were 13,180 active Category III operators in the 2006 sample frame. The reserves and production of Category III operators were estimated from an adjusted sample of 700 Category III operators (Table E2). The "other" size class represents 13,320 operators in the 2006 frame (13,820 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, 2001–2006**

(Billion Cubic Feet at 14.73 pia and 60° Fahrenheit)

Size Class	2001	2002	2003	2004	2005	2006	2005–2006 Volume and Percent Change	2001–2006 Volume and Percent Change	2006 Average Production per Operator
Class 1-10	9,019	8,996	8,220	7,617	7,068	7,956	888	-1,063	795.593
Percent of Total	43.7%	44.4%	40.6%	38.1%	36.7%	41.1%	12.6%	-11.8%	
Class 11-20	3,064	2,854	3,136	3,647	3,534	3,078	-456	14	307.847
Percent of Total	14.8%	14.1%	15.5%	18.2%	18.4%	15.9%	-12.9%	0.5%	
Class 21-100	4,949	4,763	5,275	4,982	4,832	4,492	-340	-457	56.154
Percent of Total	24.0%	23.5%	26.1%	24.9%	25.1%	23.2%	-7.0%	-9.2%	
Class 101-500	2,609	2,475	2,386	2,559	2,506	2,605	99	-4	6.513
Percent of Total	12.6%	12.2%	11.8%	12.8%	13.0%	13.4%	4.0%	-0.1%	
Class Other (13,320)	1,000	1,161	1,215	1,213	1,318	1,241	-77	241	0.093
Percent of Total	4.8%	5.7%	6.0%	6.1%	6.8%	6.4%	-5.8%	24.1%	
Category I (173)	17,672	17,335	17,347	17,036	16,311	15,092	-1,219	-2,579	87.238
Percent of Total	85.6%	85.6%	85.7%	85.1%	84.7%	77.9%	-7.5%	-14.6%	
Category II (467)	1,932	1,738	1,648	1,718	1,605	3,026	1,421	1,094	6.480
Percent of Total	9.4%	8.6%	8.1%	8.6%	8.3%	15.6%	88.5%	56.6%	
Category III (13,180)	1,038	1,176	1,236	1,263	1,342	1,255	-88	216	0.095
Percent of Total	5.0%	5.8%	6.1%	6.3%	7.0%	6.5%	-6.5%	20.8%	
<b>Total Published</b>	<b>20,642</b>	<b>20,248</b>	<b>20,231</b>	<b>20,017</b>	<b>19,259</b>	<b>19,373</b>	<b>114</b>	<b>-1,269</b>	<b>1.402</b>
<b>Percent of Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.6%</b>	<b>-6.1%</b>	

Note: There were 13,180 active Category III operators in the 2006 sample frame. The reserves and production of Category III operators were estimated from an adjusted sample of 700 Category III operators (Table E2). The "other" size class represents 13,320 operators in the 2006 frame (13,820 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, 2001–2006**  
(Million Barrels of 42 U.S. Gallons)

Size Class	2001	2002	2003	2004	2005	2006	2005–2006 Volume and Percent Change	2001–2006 Volume and Percent Change	2006 Average Reserves per Operator
Class 1-10	13,590	13,346	13,355	12,454	11,775	11,352	-424	-2,239	1,135.171
Percent of Total	60.5%	58.9%	61.0%	58.3%	54.1%	54.1%	-3.6%	-16.5%	
Class 11-20	2,901	2,817	1,907	2,053	2,659	2,048	-612	-854	204.758
Percent of Total	12.9%	12.4%	8.7%	9.6%	12.2%	9.8%	-23.0%	-29.4%	
Class 21-100	2,856	3,230	3,483	3,711	3,915	4,066	151	1,210	50.827
Percent of Total	12.7%	14.2%	15.9%	17.4%	18.0%	19.4%	3.9%	42.4%	
Class 101-500	1,794	1,817	1,705	1,761	1,969	2,111	142	317	5.278
Percent of Total	8.0%	8.0%	7.8%	8.2%	9.1%	10.1%	7.2%	17.7%	
Class Other (13,320)	1,305	1,468	1,440	1,393	1,439	1,395	-43	91	0.105
Percent of Total	5.8%	6.5%	6.6%	6.5%	6.6%	6.7%	-3.0%	6.9%	
Category I (173)	20,325	20,213	19,499	19,055	19,348	17,927	-1,420	-2,398	103.626
Percent of Total	90.6%	89.1%	89.1%	89.2%	88.9%	85.5%	-7.3%	-11.8%	
Category II (467)	794	992	937	906	954	1,642	689	848	3.517
Percent of Total	3.5%	4.4%	4.3%	4.2%	4.4%	7.8%	72.2%	106.7%	
Category III (13,180)	1,326	1,472	1,456	1,410	1,456	1,403	-53	76	0.106
Percent of Total	5.9%	6.5%	6.6%	6.6%	6.7%	6.7%	-3.7%	5.8%	
<b>Total Published</b>	<b>22,446</b>	<b>22,677</b>	<b>21,891</b>	<b>21,371</b>	<b>21,757</b>	<b>20,972</b>	<b>-785</b>	<b>-1,474</b>	<b>1.518</b>
<b>Percent of Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>-3.6%</b>	<b>-6.6%</b>	

Note: There were 13,180 active Category III operators in the 2006 sample frame. The reserves and production of Category III operators were estimated from an adjusted sample of 700 Category III operators (Table E2). The "other" size class represents 13,320 operators in the 2006 frame (13,820 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, 2001–2006**  
(Million Barrels of 42 U.S. Gallons)

Size Class	2001	2002	2003	2004	2005	2006	2005–2006 Volume and Percent Change	2001–2006 Volume and Percent Change	2006 Average Production per Operator
Class 1-10	1,061	1,037	1,047	986	912	820	-91	-240	82.042
Percent of Total	55.4%	55.3%	55.8%	54.2%	52.6%	49.7%	-10.0%	-22.6%	
Class 11-20	240	233	205	180	178	170	-7	-70	17.022
Percent of Total	12.5%	12.4%	10.9%	9.9%	10.3%	10.3%	-4.2%	-29.2%	
Class 21-100	233	240	272	303	293	309	16	76	3.866
Percent of Total	12.2%	12.8%	14.5%	16.6%	16.9%	18.7%	5.6%	32.8%	
Class 101-500	195	181	178	172	178	173	-5	-22	0.433
Percent of Total	10.2%	9.7%	9.5%	9.5%	10.3%	10.5%	-2.7%	-11.4%	
Class Other (13,320)	186	184	175	178	173	179	6	-7	0.013
Percent of Total	9.7%	9.8%	9.3%	9.8%	10.0%	10.8%	3.6%	-3.7%	
Category I (173)	1,612	1,573	1,574	1,534	1,451	1,314	-138	-299	7.593
Percent of Total	84.2%	83.9%	83.9%	84.3%	83.7%	79.5%	-9.5%	-18.5%	
Category II (467)	112	115	124	105	105	157	52	45	0.336
Percent of Total	5.8%	6.1%	6.6%	5.8%	6.1%	9.5%	49.2%	40.5%	
Category III (13,180)	191	187	179	180	176	181	5	-10	0.014
Percent of Total	10.0%	10.0%	9.5%	9.9%	10.2%	11.0%	2.8%	-5.0%	
<b>Total Published</b>	<b>1,915</b>	<b>1,875</b>	<b>1,877</b>	<b>1,819</b>	<b>1,733</b>	<b>1,652</b>	<b>-81</b>	<b>-263</b>	<b>0.120</b>
<b>Percent of Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>-4.7%</b>	<b>-13.7%</b>	

Note: There were 13,180 active Category III operators in the 2006 sample frame. The reserves and production of Category III operators were estimated from an adjusted sample of 700 Category III operators (Table E2). The "other" size class represents 13,320 operators in the 2006 frame (13,820 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, 2001–2006**

Size Class	2001	2002	2003	2004	2005	2006	2005–2006 Number and Percent Change	2001–2006 Number and Percent Change	2006 Average Number of Fields per Operator
Class 1-10	3,794	3,596	3,689	3,409	3,738	4,667	929	873	466.700
Percent of Total	14.0%	12.9%	13.2%	12.4%	13.2%	16.4%	24.9%	23.0%	
Class 11-20	2,212	2,392	2,492	3,352	2,488	2,513	25	301	251.300
Percent of Total	8.2%	8.6%	8.9%	12.2%	8.8%	8.8%	1.0%	13.6%	
Class 21-100	7,195	7,947	8,168	8,071	9,196	8,433	-763	1,238	105.413
Percent of Total	26.5%	28.4%	29.3%	29.4%	32.6%	29.6%	-8.3%	17.2%	
Class 101-500	12,435	12,661	11,859	10,698	10,845	11,219	374	-1,216	28.048
Percent of Total	45.9%	45.3%	42.5%	39.0%	38.4%	39.4%	3.4%	-9.8%	
Rest	1,480	1,349	1,709	1,929	1,952	1,662	-290	182	11.871
Percent of Total	5.5%	4.8%	6.1%	7.0%	6.9%	5.8%	-14.9%	12.3%	
Category I	16,196	17,049	16,760	17,368	17,858	16,953	-905	757	97.994
Percent of Total	59.7%	61.0%	60.0%	63.3%	63.3%	59.5%	-5.1%	4.7%	
Category II	10,764	10,473	10,688	9,486	9,738	11,161	1,423	397	23.899
Percent of Total	39.7%	37.5%	38.3%	34.5%	34.5%	39.2%	14.6%	3.7%	
<b>Total</b>	<b>27,116</b>	<b>27,945</b>	<b>27,917</b>	<b>27,459</b>	<b>28,219</b>	<b>28,494</b>	<b>275</b>	<b>1,378</b>	<b>44.522</b>
<b>Percent of Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>1.0%</b>	<b>5.1%</b>	

Note: Includes only data from Category I and Category II operators. In 2006 there were 173 Category I operators and 467 Category II operators. The "rest" size class had 140 operators in 2006.

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

**Table A6. Top 50 U.S. Operators Ranked by Reported 2006 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	586	1	CONOCOPHILLIPS CO.	4,033
2	CHEVRON CORP.	450	2	ANADARKO PETROLEUM CORP	2,896
3	CONOCOPHILLIPS CO	401	3	BP PLC	2,739
4	SHELL OIL CO	305	4	CHEVRON CORP	2,142
5	OCCIDENTAL PETROLEUM CORP	285	5	DEVON ENERGY CORP.	2,059
6	AERA ENERGY LLC	188	6	CHESAPEAKE ENERGY CORP.	1,999
7	ANADARKO PETROLEUM CORP	183	7	EXXONMOBIL CORP	1,903
8	EXXONMOBIL CORP.	131	8	SHELL OIL CO	1,619
9	APACHE CORP	81	9	ENCANA OIL & GAS INC	1,540
10	PLAINS EXPLORATION & PRODUCTION CO	59	10	XTO ENERGY INC	1,360
<b>Top 10 Volume Subtotal</b>		<b>2,669</b>	<b>Top 10 Volume Subtotal</b>		<b>22,290</b>
<b>Top 10 Percentage of U.S. Total</b>		<b>53%</b>	<b>Top 10 Percentage of U.S. Total</b>		<b>42%</b>
11	KINDER MORGAN ENERGY PARTNERS	57	11	DOMINION RESOURCES INC	1,202
12	AMERADA HESS CORP	57	12	EOG RESOURCES INC	1,049
13	DOMINION RESOURCES INC.	54	13	APACHE CORP.	1,031
14	NOBLE ENERGY INC	52	14	WILLIAMS ENERGY INC	949
15	MARATHON OIL CO	47	15	OCCIDENTAL PETROLEUM CORP	866
16	MERIT ENERGY CO	46	16	EL PASO ENERGY	823
17	MURPHY OIL CORP	43	17	NEWFIELD EXPLORATION CO	715
18	XTO ENERGY INC	40	18	SAMSON RESOURCES CO	678
19	DEVON ENERGY CORP	38	19	MARATHON OIL CO	670
20	EOG RESOURCES INC.	37	20	QUESTAR CORP.	654
<b>Top 20 Volume Subtotal</b>		<b>3,140</b>	<b>Top 20 Volume Subtotal</b>		<b>30,927</b>
<b>Top 20 Percentage of U.S. Total</b>		<b>62%</b>	<b>Top 20 Percentage of U.S. Total</b>		<b>58%</b>
21	PIONEER NATURAL RESOURCES USA INC.	31	21	NOBLE ENERGY INC	569
22	CITY OF LONG BEACH	31	22	PIONEER NATURAL RESOURCES USA INC.	528
23	CHESAPEAKE ENERGY CORP	30	23	CIMAREX ENERGY CO.	432
24	CITATION OIL & GAS CORP.	30	24	MERIT ENERGY CO	379
25	CONTINENTAL RESOURCES INC	27	25	ENERGEN RESOURCES CORP.	291
26	HILCORP ENERGY CO	26	26	ULTRA PETROLEUM INC	288
27	ALLIANT ENERGY CORP	26	27	EQUITABLE RESOURCES INC.	262
28	ENCORE OPERATING LP	26	28	YATES PETROLEUM CORP	258
29	ST MARY LAND & EXPLORATION CO.	25	29	HILCORP ENERGY CO	257
30	DENBURY RESOURCES INC	24	30	HUNT OIL CO.	252
31	ENI PETROLEUM CO INC.	24	31	FOREST OIL CORP.	251
32	FOREST OIL CORP.	24	32	POGO PRODUCING CO	225
33	ENERGEN RESOURCES CORP.	23	33	SANDRIDGE ENERGY INC.	222
34	SWIFT ENERGY CO	23	34	CABOT OIL & GAS CORP.	217
35	BERRY PETROLEUM CO	21	35	THE HOUSTON EXPLORATION CO.	210
36	CIMAREX ENERGY CO.	21	36	AMERADA HESS CORP	207
37	POGO PRODUCING CO	20	37	MARINER ENERGY INC	204
38	EL PASO ENERGY	20	38	J - W OPERATING CO.	196
39	STONE ENERGY CORP	18	39	UNIT CORP	192
40	HENRY PETROLEUM LP	16	40	HUNT PETROLEUM CORPORATION	188
41	W & T OFFSHORE INC	15	41	BILL BARRETT CORP	184
42	ENERPLUS RESOURCES USA CORP.	14	42	KCS ENERGY INC	183
43	NEWFIELD EXPLORATION CO	13	43	ENERGY PARTNERS LTD	181
44	ENCANA OIL & GAS INC	13	44	C N X GAS CO LLC	177
45	HEADINGTON RESOURCES INC.	12	45	FIDELITY EXPLORATION & PROD CO	171
46	LLOG EXPLORATION CO	12	46	KAISER - FRANCIS OIL CO.	171
47	ENDEAVOR ENERGY RESOURCES LP	12	47	W & T OFFSHORE INC	171
48	WALTER OIL & GAS CORP.	12	48	WALTER OIL & GAS CORP.	160
49	SANDRIDGE ENERGY INC	12	49	ST MARY LAND & EXPLORATION CO.	159
50	MARINER ENERGY INC	11	50	RANGE RESOURCES CORP	149
<b>Top 50 Volume Subtotal</b>		<b>3,752</b>	<b>Top 50 Volume Subtotal</b>		<b>38,261</b>
<b>Top 50 Percentage of U.S. Total</b>		<b>75%</b>	<b>Top 50 Percentage of U.S. Total</b>		<b>72%</b>

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