Top 100 Operators: Proved Reserves and Production, Operated vs Owned, 2009

The operator of an oil or gas field is the company responsible for the field's management and day-to-day operation. Operators in the United States are obligated to submit to EIA annual estimates of proved reserves for each field they operate. In 2009, the largest 100 operators (as determined by total operated reserves) accounted for nearly 90 percent of proved oil and natural gas reserves but less than one percent of all operators (which numbered over 14,000, based on data collected by EIA for the 2009 reporting year). The top ten accounted for 54 percent of proved oil reserves and 48 percent of proved wet natural gas reserves.

EIA data release policy does not allow company-specific proved reserves estimates, as publishing these volumes could compromise proprietary data. Figure 1 and accompanying Tables 1 and 2 show the cumulative operated proved reserves of the top 100 operators arranged in ten groups of ten in descending volumetric order. For comparison purposes, the Tables also include the owned proved reserves estimates and production data that most of these companies submitted to the Securities and Exchange Commission (SEC). While there is some overlap, it is useful to distinguish between the proved reserves a company operates and those it actually owns.

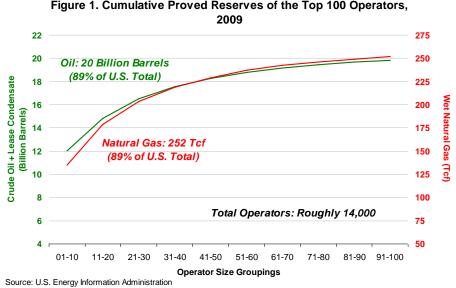


Figure 1. Cumulative Proved Reserves of the Top 100 Operators,

For EIA reporting, a company estimates its **operated** proved reserves on an individual field basis, including 100 percent of each operated field's proved reserves; fields in which it has ownership but does not operate are not included. For filings with the SEC, the company (if publicly-traded) estimates its owned proved reserves, which includes only its share of proved reserves; all fields in which it has an ownership are included (cumulatively rather than individually). EIA reporting. therefore, accounts for the entirety of a field's proved reserves and production, while SEC filings include only those volumes owned by companies required to file with the SEC.

For example, ExxonMobil currently holds an approximate one-third interest in the Prudhoe Bay Field in Alaska, the country's largest crude oil field. Because it is not the field's operator, ExxonMobil does not report its proved reserves or production to EIA. For its filing with the SEC, however, the company would include its one-third share of Prudhoe Bay's total proved reserves

¹ The top 100 operators include both U.S. and foreign companies; their share of total proved reserves is relatively unconcentrated by the standards of many industries.

² In estimating field-level proved reserves, operators add lease condensate to crude oil (as oil) and plant liquids to natural gas (as "wet" natural gas).

The SEC requires companies with more than \$10 million in assets whose securities are held by more than 500 owners to file annual and other periodic reports. For 2009, this requirement applied to 60 of the Top 100 operators ranked by liquids proved reserves and 72 of the Top 100 operators ranked by wet gas proved reserves.

and production. Operator BP's EIA submission, on the other hand, would include all of the field's proved reserves and production, while its SEC filing would be limited to its ownership share.

For EIA and SEC purposes, proved reserves are defined as those volumes of oil and natural gas that geological and engineering data demonstrate with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions.

Summary Table: Top Operators Ranked by Proved Reserves

	2009 Oil (million barrels)				2008 Oil (million barrels)				
	Operated (EIA)		Owne	Owned (SEC)		Operated (EIA)		Owned (SEC)	
	Reserves	Production	Reserves	Production	Reserves	Production	Reserves	Production	
Top 100	19,844	1,571	17,168	1,447	18,123	1,469	14,941	1,291	
U.S. Total	22,315	1,929	22,315	1,929	20,554	1,845	20,554	1,845	
% U.S. Total	88.9%	81.4%	76.9%	75.0%	88.2%	79.6%	72.7%	70.0%	

Natural Gas Natural Gas (billion cubic feet) (billion cubic feet) Operated (EIA) Owned (SEC) Operated (EIA) Owned (SEC) **Production** Production Reserves Reserves Production Reserves Reserves Production Top 100 251,694 17,966 163,906 12,582 228,019 17,385 158,588 11,833 U.S. Total 283,879 22,537 283,879 22,537 255,035 21,415 255,035 21,415 % U.S. Total 88.7% 79.7% 57.7% 55.8% 89.4% 81.2% 62.2% 55.3%

Operated: Form EIA-23. Owned: SEC Forms 10-K, 20-F, and 40-F.

Table 1. Top 100 Operators Ranked by 2009 Crude Oil and Lease Condensate Proved Reserves
(Million Barrels)

Operated (EIA)

Owned (SEC)

		Operated (EIA)		Owned	Owned (SEC)		
Rank	Company Name	Reserves	Production	Reserves	Production		
1 BP	PLC	(w)	309.0	3,073.0	237.0		
2 000	CIDENTAL PETROLEUM CORP	(w)	93.7	1,606.0	99.0		
3 CH	EVRON CORP	(w)	173.5	1,361.0	177.0		
4 COI	NOCOPHILLIPS CO	(w)	121.7	1,905.0	153.0		
	ELL OIL CO	(w)	94.9	422.0	71.0		
	RA ENERGY LLC	(w)	58.1	-	-		
	ADARKO PETROLEUM CORP	(w)	42.7	760.0	63.0		
	ACHE CORP	(w)	39.9	524.2	34.8		
	KONMOBIL CORP	(w)	33.2	1,616.0	112.0		
10 PIO	NEER NATURAL RESOURCES USA INC	(w)	7.9	472.4	16.5		
11 AMI	ERADA HESS CORP	12,051.4	974.6	11,739.6	963.3		
		(w)	28.9	249.0	26.0		
	NTINENTAL RESOURCES INC	(w)	12.8	173.3	10.0		
	D ENERGY INC	(w)	23.8	387.6	31.7		
	G RESOURCES INC	(w)	24.3	279.9	25.7		
	O G OPERATING LLC	(w)	13.0	142.0	7.3		
	NBURY RESOURCES INC	(w)	15.7	192.9	13.5		
_	NDRIDGE ENERGY INC	(w)	10.2	105.3	2.9		
	HITING PETROLEUM CORP	(w)	15.9	223.8	15.4		
	AINS EXPLORATION & PRODUCTION CO	(w)	18.0	214.0	17.6		
20 MEI	RIT ENERGY CO	(w)	14.1	-			
24 NO	BLE ENERGY INC	2,762.2	176.9	1,967.8	150.1		
		(w)	15.7	209.0	17.0		
	CORE ACQUISITION CO	(w)	10.1	147.1	10.0		
	ATION OIL & GAS CORP	(w)	11.0	-	-		
	WFIELD EXPLORATION CO	(w)	8.8	137.0	8.0		
	ESAPEAKE OPERATING INC	(w)	15.9	124.0	11.8		
	RATHON OIL CORP	(w)	16.8	170.0	23.0		
	VON ENERGY CORP	(w)	15.0	559.0	43.0		
	RRY PETROLEUM CO	(w)	6.4	129.9	7.2		
	CANA OIL & GAS INC	(w)	5.2	41.2	4.1		
30 KIIN	DER MORGAN ENERGY PARTNERS 21-30 Subtotal	1,722.0	20.9 125.7	86.8	15.7 139. 8		
31 LIN	N ENERGY LLC	1,722.0 (w)	3.9	1,604.0 156.0	5.7		
	Y OF LONG BEACH	(w)	9.9	130.0	5.7		
	CORP ENERGY CO	(w)	11.5	_	_		
	ERGEN RESOURCES CORP	(w)	5.8	108.2	6.5		
	ERIDAN PRODUCTION CO LLC	(w)	3.0	100.2	0.0		
	PASO ENERGY	(w)	5.5	61.2	5.5		
	DEAVOR ENERGY RESOURCES LP	(w)	8.2	01.2	0.0		
	P BILLITON	(w)	36.7	274.4	44.1		
	SOLUTE NATURAL RESOURCES CO LLC	(w)	3.5	214.4	44.1		
	PETROLEUM CO INC	(w)	13.8	153.0	26.0		
	31-40 Subtotal	1,027.9	101.8	752.8	87.8		
41 ARE	ENA RESOURCES INC	(w)	3.1	59.7	2.0		
	REST OIL CORP	(w)	2.7	55.2	6.4		
	TROBRAS AMERICA INC	(w)	0.5	7.3	0.7		
44 ENE	ERQUEST OIL & GAS LTD	(w)	1.0		J.,		
	IAREX ENERGY CO	(w)	10.4	58.0	8.5		
	RINER ENERGY INC	(w)	4.4	86.0	6.0		
	ENERGY INC	(w)	6.7	53.8	6.3		
		, ,	0.,	00.0	0.0		
48 A T	P OIL & GAS CORP	(w)	49	52.4	3.3		
	P OIL & GAS CORP NDSOR ENERGY GROUP LLC	(w) (w)	4.9 0.7	52.4	3.3		
49 WIN		(w) (w) (w)	4.9 0.7 4.4	52.4 - 38.8	3.3 - 3.0		

Table 1. Top 100 Operators Ranked by 2009 Crude Oil and Lease Condensate Proved Reserves (Million Barrels)

	(10)	Operated (EIA)		Owned (SEC)		
Rank	Company Name	Reserves	Production	Reserves	Production	
51 SV	VIFT ENERGY CO	(w)	5.5	64.5	5.5	
52 ST	EPHENS & JOHNSON OPERATING CO	(w)	1.7	-	-	
53 MI	JRPHY OIL CORP	(w)	12.9	26.4	6.2	
54 TE	XAS PETROLEUM INVESTMENT CO	(w)	3.3	-	-	
55 EN	IERGY XXI GOM LLC	(w)	6.5	47.5	4.2	
56 E8	B NATURAL RESOURCES MGMT CORP	(w)	1.7	-	-	
57 VE	NOCO INC	(w)	3.2	52.0	3.4	
58 BA	SA RESOURCES INC	(w)	3.4	-	-	
59 QI	JESTAR CORP	(w)	4.0	37.0	3.5	
60 NA	ATIONAL FUEL GAS	(w)	3.7	46.6	3.4	
	51-60 Subtotal	527.3	45.8	274.0	26.2	
	NGE RESOURCES CORP	(w)	3.4	85.7	4.7	
	TRA PETROLEUM INC	(w)	1.7	29.2	1.3	
	ALTER OIL & GAS CORP	(w)	5.5	-	-	
	ALDIVE INTERNATIONAL INC	(w)	3.3	29.7	2.7	
	COR LLC	(w)	3.1	-	-	
	PPCO LP	(w)	3.3	-	-	
	REKA OIL & GAS	(w)	0.8	-	-	
	ONE ENERGY CORP	(w)	7.6	32.3	6.2	
	IERPLUS RESOURCES USA CORP	(w)	4.0	25.6	3.0	
70 W	& T OFFSHORE INC	(w)	6.9	34.2	7.2	
74 DE	61-70 Subtotal	400.9	39.5	236.7	25.2	
	RIGHAM EXPLORATION CO IKOR ENERGY LLC	(w)	1.0	16.6	0.8	
		(w)	3.6	71.0	8.0	
	EXLAND PETROLEUM LP	(w)	2.1	-	-	
	SKEN OIL & RANCH LTD ACPHERSON OIL CO	(w)	2.2	-	-	
	IERVEST LTD	(w)	1.9	-	-	
	MSON RESOURCES CO	(w)	2.7	-	-	
	TRO HUNT LLC	(w)	7.1	-	-	
	GACY RESERVES OPERATING LP	(w)	3.1	-	-	
	OG EXPLORATION CO	(w) (w)	2.1	26.7	2.2	
00 LL	71-80 Subtotal	276.8	3.8 29.5	114.3	11.0	
81 HE	ELIS OIL & GAS CO LLC	(w)	2.7	- 114.5	- 11.0	
82 RA	AM ENERGY INC	(w)	1.8	19.1	1.5	
83 PA	RALLEL PETROLEUM CORP	(w)	0.6	-	-	
84 EN	IERGY PARTNERS LTD	(w)	1.8	19.9	2.0	
85 W.	APITI ENERGY LLC	(w)	1.0	-		
86 TII	DELANDS OIL PRODUCTION CO	(w)	2.4	_	_	
87 SL	AWSON EXPLORATION CO INC	(w)	2.6	_	_	
88 JE	TTA OPERATING CO INC	(w)	1.6	_	_	
89 HL	JNT OIL CO	(w)	4.2	_	_	
90 AE	RAXAS PETROLEUM CORP	(w)	0.6	8.8	0.6	
	81-90 Subtotal	223.6	19.3	47.8	4.1	
91 VE	SS OIL CORP	(w)	1.7	-	-	
92 M	CMORAN OIL & GAS LLC	(w)	3.9	15.5	3.0	
93 YA	TES PETROLEUM CORP	(w)	2.3	-	_	
94 M	ARBOB ENERGY CORP	(w)	3.5	-	_	
95 CF	RIMSON RESOURCE MANAGEMENT CORP	(w)	1.2	4.6	0.8	
96 TE	XAS AMERICAN RESOURCES CO	(w)	0.5	-	-	
97 E I	R G RESOURCES LLC	(w)	0.7	-	-	
98 KE	RNS OIL & GAS INC	(w)	0.2	-	-	
99 ME	EWBOURNE OIL CO	(w)	1.9	-	-	
100 W	OLVERINE GAS & OIL CORP	(w)	3.0	-	-	
	91-100 Subtotal	169.2	18.8	20.1	3.7	
To	p 100 Subtotal	19,843.5	1,570.6	17,168.2	1,447.4	

Operated: Form EIA-23. Ownership: SEC Forms 10-K, 20-F and 40-F. (w) = withheld.

Note: Form EIA-23 proved reserves are the sum of ten companies due to confidentiality. - = N/A.

Table 2. Top 100 Operators Ranked by 2009 Wet Natural Gas Proved Reserves (Billion Cubic Feet)

TIPPIC		(=::::		Operated (EIA)		Owned (SEC)	
2 CHESAPEAKE OPERATING INC 3 XTO ENERGY INC 4 ENCANA OL & GAS INC 5 CONDCOPHILLIPS CO 5 CONDCOPHILLIPS CO 6 DEVON ENERGY CORP 6 DEVON ENERGY CORP 7 EXXONMOBIL CORP 8 E O G RESQURCES INC 9 ANADARKO PETROLEUM CORP 10 ULTRA PETROLEUM CORP 10 ULTRA PETROLEUM CORP 11 QUESTAR CORP 11 QUESTAR CORP 12 THE WILLIAMS COMPANIES INC 13 SOUTHWESTERN ENERGY PRODUCTION CO 14 EQUITABLE RESOURCES INC 15 EVENT ON THE WILLIAMS COMPANIES INC 16 DEVON DEPART OF THE WILLIAMS COMPANIES INC 17 COLIDENTAL PETROLEUM CORP 18 E OLO RESOURCES INC 19 ANADARKO PETROLEUM CORP 10 ULTRA PETROLEUM INC 10 ULTRA PETROLEUM CORP 10 ULTRA PETROLEUM CORP 11 QUESTAR CORP 12 THE WILLIAMS COMPANIES INC 14 EQUITABLE RESOURCES INC 15 EVENT OF THE WILLIAMS COMPANIES INC 16 PETROHAWK OPERATING CO 17 COCCIDENTAL PETROLEUM CORP 18 PICNEET RATURAL RESOURCES INC 17 COCCIDENTAL PETROLEUM CORP 18 PICNEET RATURAL RESOURCES USA INC 19 APACHE CORP 20 SHELL OLG WILLIAMS COMPANIES INC 21 CHEVRON CORP 22 SLAPASO ENERGY 21 CHEVRON CORP 22 SLAPASO ENERGY 22 SLAPASO ENERGY 23 SANDRIBOE ENERGY INC 24 RANGE RESOURCES SUSA INC 25 CHEVRON CORP 26 SHELL OLG WILLIAMS COMPANIES INC 27 SHELL OLG WILLIAMS COMPANIES INC 28 CABOT OLL & GAS SEA SEA SEA SEA SEA SEA SEA SEA SEA S	Rank	Company Name	Reserves	Production	Reserves	Production	
3 XTO ENERGY INC 4 ENDANA OIL & GAS INC 5 CONCOPPHILLIPS CO 6 DEVON ENERGY CORP 7 EXXONIXOBLE CORP 8 E O G RESOURCES INC 9 ANADARKO PETROLEUM CORP 10 ULTAR PETROLEUM CORP 11 QUESTAR CORP 11 QUESTAR CORP 12 THE WILLIAMS COMPANIES INC 13 SOUTHWESTERN ENERGY PRODUCTION CO 16 PETROHAWK OPERATING CO 17 PEXCENDIAL RESOURCES INC 18 PONE PERROLEUM CORP 19 THE WILLIAMS COMPANIES INC 19 ANADARKO PETROLEUM CORP 10 ULTAR PETROLEUM CORP 11 QUESTAR CORP 11 QUESTAR CORP 12 THE WILLIAMS COMPANIES INC 13 SOUTHWESTERN ENERGY PRODUCTION CO 14 EQUITABLE RESOURCES INC 15 PETROHAWK OPERATING CO 16 PETROHAWK OPERATING CO 17 OCCIDENTAL PETROLEUM CORP 18 PIONEER NATURAL RESOURCES USA INC 19 APACHE CORP 20 SHELL OIL CO 11-0 Subtotal 21 CHEVRON CORP 22 EL PASO ENERGY 23 SANDIDED ENERGY INC 24 RANGE RESOURCES INC 17-0 Subtotal 25 COLIDENTAL PETROLEUM CORP 17-0 Subtotal 26 CABOT OIL & GAS CORP 27 HIGHMOUNT EXPLOYER INC 19 APACHE CORP 28 SHELL OIL CO 11-0 Subtotal 43,169.2 3,300.5 29,738.6 29,97. 44 FOUNT OR CORP 25 QUICKSILVER RESOURCES USA INC W) 495.9 2,258.0 399.0 21 CHEVRON CORP 22 EL PASO ENERGY W) 1146.6 860.1 87.5 24 RANGE RESOURCES INC W) 117.2 25 QUICKSILVER RESOURCES INC W) 117.2 26 CABOT OIL & GAS CORP W) 146.9 27 HIGHMOUNT EXPLOYER PROD TEXAS LLC W) 117.4 15,901.2 27 HIGHMOUNT EXPLOR & PROD TEXAS LLC W) 117.4 15,901.2 28 NOBLE ENERGY INC W) 163.9 29 C N X GAS CO LLC W) 163.9 31 SAMSON RESOURCES CORP W) 163.9 21 CHEVRON CORP 22 HAS CORP (W) 117.4 15,901.2 23 SANDRIBOR ENERGY INC W) 163.9 24 RANGE RESOURCES CORP W) 163.9 25 DUICKSILVER RESOURCES INC W) 170.0 77.0 77.0 26 ROBER ENERGY INC W) 163.9 31 SAMSON RESOURCES CORP W) 180.9 27 HIGHMOUNT EXPLORE SPOOT EXAS LLC W) 177.0 28 NOBLE ENERGY INC W) 163.9 31 SAMSON RESOURCES INC W) 163.0 31 SAMSON RESOURCES INC W) 163.0 31 SAMSON RESOURCES INC W) 163.0 31 SAMSON RESOURCES INC W) 16	1 B	P PLC	(w)	1,016.6	15,216.0	907.0	
## ENCANA OIL & GAS INC 5 CONOCOPHILIPS CO 6 DEVON ENERGY CORP 7 EXXONMOBIL CORP 8 E O G RESOURCES INC 8 E O G RESOURCES INC 9 ANADARKO PETROLEUM CORP 10 ULTRA PETROLEUM INC 11 QUESTAR CORP 11 QUESTAR CORP 12 THE WILLIAMS COMPANIES INC 13 SOUTHWESTERN ENREGY PRODUCTION CO 14 EQUITABLE RESOURCES INC 15 EVEN FILL DE XPLORATION CO 16 PETROHAWK OPERATING CO 17 OCCIDENTAL PETROLEUM CORP 18 FO RESOURCES INC 19 ANADARKO PETROLEUM CORP 10 ULTRA PETROLEUM INC 11 QUESTAR CORP 12 THE WILLIAMS COMPANIES INC 11 QUESTAR CORP 12 THE WILLIAMS COMPANIES INC 13 SOUTHWESTERN ENREGY PRODUCTION CO 14 EQUITABLE RESOURCES INC 15 NEWFIELD EXPLORATION CO 16 PETROHAWK OPERATING CO 17 OCCIDENTAL PETROLEUM CORP 18 PIONEER NATURAL RESOURCES USA INC 19 APACHE CORP 20 SHELL OIL CO 11-20 Subtotal 21 THE VILLAMS CORP 21 THE VILLAMS CORP 32 SANDRIDGE ENERGY 22 EL PASO ENERGY 23 SANDRIDGE ENERGY INC 24 RANGE RESOURCES INC (W) 134.4 2,052.0 399.0 21 CHEVRON CORP 22 EL PASO ENERGY (W) 355.7 2,440.3 24 RANGE RESOURCES INC (W) 146.9 25 QUICKSILVER RESOURCES INC (W) 146.9 25 QUICKSILVER RESOURCES INC (W) 146.9 26 L1 2,698.0 571.0 27 FIGH WILLIAMS CORP (W) 355.7 2,440.3 24 RANGE RESOURCES INC (W) 146.9 25 GUICKSILVER RESOURCES INC (W) 146.9 27 HIGHMOUNT EXPLORATION CO (W) 146.9 28 FIGH A 1,521.0 77.0 28 NOBLE ENERGY INC (W) 117.2 20 112.2 27 HIGHMOUNT EXPLORA PROD TEXAS LLC (W) 117.4 1,521.0 77.0 28 NOBLE ENERGY INC (W) 150.1 31 SAMSON RESOURCES INC (W) 294.4	2 C	HESAPEAKE OPERATING INC	(w)	1,235.1	13,510.0	835.0	
\$ CONOCOPHILLIPS CO (W) 1,208.1 10,742.0 850.0 6 DEVON ENERGY CORP (W) 968.0 8,469.0 743.0 7 EXXONNOBIL CORP (W) 551.4 11,888.0 566.0 8 E O G RESOURCES INC (W) 576.7 6,305.1 422.3 9,ANDARKO PETROLEUM CORP (W) 1,027.9 7,764.0 817.0 (U) 1,027.0	3 X	TO ENERGY INC	(w)	1,097.3	12,501.7	855.0	
6 DEVON ENERGY CORP 7 EXXONNOBIL CORP (W) 521.4 11,688.0 566.0 8 E O G RESOURCES INC (W) 576.7 6,350.1 422.3 9 ANADARKO PETROLEUM CORP (W) 1,027.9 7,764.0 817.0 10 ULTRA PETROLEUM CORP (W) 1,027.9 7,764.0 817.0 10 ULTRA PETROLEUM INC (W) 228.7 3,736.6 172.2 11 QUESTAR CORP (W) 337.6 2,525.0 168.7 12 THE WILLIAMS COMPANIES INC (W) 547.0 425.2 3,650.3 299.7 12 THE WILLIAMS COMPANIES INC (W) 138.1 4,066.1 104.3 13 SOUTHWESTERN ENERGY PRODUCTION CO (W) 426.2 3,650.3 299.7 14 EQUITABLE RESOURCES INC (W) 138.1 4,066.1 104.3 15 NEWFIELD EXPLORATION CO (W) 244.1 2,700.0 174.0 17 OCCIDENTAL PETROLEUM CORP (W) 244.1 2,700.0 174.0 17 OCCIDENTAL PETROLEUM CORP (W) 255.0 2,799.0 122.0 18 PIONEER NATURAL RESOURCES USA INC (W) 215.9 2,450.1 147.5 19 APACHE CORP (W) 355.7 2,440.3 243.6 23 SANDRIDGE ENERGY (W) 314.4 2,052.0 215.0 23 SANDRIDGE ENERGY (W) 314.4 2,052.0 215.0 23 SANDRIDGE ENERGY (W) 48,99 2,258.0 399.0 24 CHEVRON CORP (W) 48,99 2,258.0 399.0 25 CHEVRON CORP (W) 146.9 2,614.7 130.6 26 CABOT OIL & GAS CORP (W) 146.9 2,614.7 130.6 26 CABOT OIL & GAS CORP (W) 146.9 2,614.7 130.6 26 CABOT OIL & GAS CORP (W) 17.2 2,013.2 97.9 27 HIGHMOUNT EXPLOR & PROD TEXAS LLC (W) 117.4 1,534.0 145.0 29 CN X GAS COLLC (W) 105.4 1,911.4 94.4 30 FOREST OIL CORP 27 HIGHMOUNT EXPLOR & PROD TEXAS LLC (W) 150.9 1,112.0 1,116.5 118.0 31 SAMSON RESOURCES CORP (W) 165.4 1,911.4 94.4 32 FOREST OIL CORP 27 HIGHMOUNT EXPLOR & PROD TEXAS LLC (W) 150.9 1,117.2 2,013.2 97.9 25 EVEN SERGY NC (W) 150.1 1,186.6 118.0 31 SAMSON RESOURCES CORP (W) 150.1 1,186.6 118.0 31 SAMSON RESOURCES CORP (W) 150.1 1,186.6 118.0 31 SAMSON RESOURCES CORP (W) 150.1 1,186.6 118.0 31 SAMSON RESOURCES INC (W) 150.3 1,117.0 410.0 31 SAMSON RESOURCES INC (W) 150.1 1,186.6 118.0 31 SAMSON RESOURCES CORP (W) 150.1 1,186.6 118.0 31 SAMSON RESOURCES INC (W) 150.5 1,170.4 410.0 42 MARATHON OIL CORP (W) 45.9 2,23.8 17,995.8 1,536.0 43 ENERGY LLC (W) 45.9 2,573.3 481.2 41 CONTINENTAL RESOURCES INC (W) 45.9 7,76.7 4,33.4 4 J. W. OPERATING CO (W) 45.9 7,76.7 4,33.4 4 J. W. OPERATING	4 E	NCANA OIL & GAS INC	(w)	801.6	5,713.0	590.0	
7 EXXONMOBIL CORP (w) 521.4 11,688.0 566.0 8 E O G RESOURCES INC (w) 576.7 6,350.1 422.3 9 ANADARAKO PETROLEUM CORP (w) 1,027.9 7,764.0 817.0 10 ULTRA PETROLEUM INC (w) 228.7 3,736.6 172.2 11 QUESTAR CORP (w) 337.6 2,525.0 168.7 12 THE WILLIAMS COMPANIES INC (w) 547.0 4,255.0 458.0 13 SOUTHWESTERN ENERGY PRODUCTION CO (w) 425.2 3,650.3 299.7 14 EQUITABLE RESOURCES INC (w) 338.1 4,066.1 104.3 15 NEWFIELD EXPLORATION CO (w) 246.1 2,605.0 172.0 17 OCCIDENTAL PETROLEUM CORP (w) 325.0 2,799.0 232.0 18 PETROLEW EXPLORATION CO (w) 245.2 2,565.0 172.0 19 PAPCHE CORP (w) 325.0 2,799.0 232.0 18 PETROLEWAW OPERATING CO (w) 245.0 2,450.1 147.5 20 SHELL OIL CO <t< th=""><th>5 C</th><th>ONOCOPHILLIPS CO</th><th>(w)</th><th>1,208.1</th><th>10,742.0</th><th>850.0</th></t<>	5 C	ONOCOPHILLIPS CO	(w)	1,208.1	10,742.0	850.0	
8 E O G RESOURCES INC 9 ANADARKO PETROLEUM CORP (W) 1,027.9 7,764.0 817.0 10 ULTRA PETROLEUM INC (W) 228.7 3,736.6 172.2 11 QUESTAR CORP (W) 337.6 2,525.0 168.7 11 QUESTAR CORP 12 THE WILLIAMS COMPANIES INC (W) 337.6 2,525.0 168.7 13 SOUTHWESTERN ENERGY PRODUCTION CO (W) 457.0 4,255.0 456.0 13 SOUTHWESTERN ENERGY PRODUCTION CO (W) 425.2 3,650.3 299.7 14 EQUITABLE RESOURCES INC (W) 246.1 2,605.0 172.0 16 PETROHAWK OPERATING CO (W) 246.1 2,605.0 172.0 16 PETROHAWK OPERATING CO (W) 244.1 2,700.0 174.0 17 OCCIDENTAL PETROLEUM CORP (W) 325.0 2,799.0 232.0 18 PIONEER NATURAL RESOURCES USA INC (W) 215.9 2,450.1 147.5 19 APACHE CORP (W) 355.7 2,440.3 243.6 20 SHELL OIL CO (W) 495.9 2,258.0 399.0 12 CHEVRON CORP (W) 624.1 2,698.0 511.0 21 CHEVRON CORP (W) 624.1 2,698.0 511.0 22 CHEVRON CORP (W) 446.9 2,258.0 399.0 22 LP ASO ENERGY (W) 624.1 2,698.0 511.0 23 SANDRIDGE ENERGY INC (W) 148.6 680.1 87.5 24 RANGE RESOURCES CORP (W) 148.6 680.1 87.5 25 QUICKSILVER RESOURCES INC (W) 199.7 1,556.0 61.6 26 CABOT OIL & GAS CORP (W) 117.2 2,013.2 97.9 27 HIGHMOUNT EXPLOR & PROD TEXAS LLC (W) 192.4 1,534.0 145.0 29 C N X GAS CORP (W) 117.2 2,013.2 97.9 27 HIGHMOUNT EXPLOR & PROD TEXAS LLC (W) 192.4 1,534.0 145.0 29 C N X GAS COLLC (W) 163.9 1,415.4 11.6 21 SAMSON RESOURCES CORP (W) 163.9 1,415.4 11.6 21 SAMSON RESOURCES CORP (W) 163.9 1,415.4 1.6 21 SAMSON RESOURCES CORP (W) 192.4 5.8 21 SAMSON RESOURCES CORP (W) 192.5 897.5 897.5 897.5 72.3 21 SAMTERO RESOURCES CORP (W) 193.0 1,415.0 1.6 21 SAMSON RESOURCES CORP (W) 194.0 1.7 21 SAMSON RESOURCES CORP (W) 195.1 1,166.6 118.0 21 SAMSON RESOURCES CORP (W) 194.9 1.7 21 SAMSON RESOURCES CORP (W) 195.1 1,415.4 1.6 21 SAMSON RESOURCES CORP (W) 194.9 1.7 21 SAMSON	6 D	EVON ENERGY CORP	(w)	969.0	8,469.0	743.0	
9 ANADARKO PETROLEUM CORP 10 ULTRA PETROLEUM INC 1-10 Subtotal 135,323.4 8,882.4 95,890.4 6,757.5 11 QUESTAR CORP 12 THE WILLIAMS COMPANIES INC 13 SOUTHWESTERN ENERGY PRODUCTION CO 13 SOUTHWESTERN ENERGY PRODUCTION CO 14 EQUITABLE RESOURCES INC 15 NEWFIELD EXPLORATION CO 16 PETROHAWK OPERATING CO 17 COCIDENTAL PETROLEUM CORP 18 PIONEER NATURAL RESOURCES USA INC 19 APACHE CORP 20 SHELL CIL CO 21 CHEVRON CORP 22 L PASO ENERGY 22 L PASO ENERGY 23 SANDRIDGE ENERGY INC 24 RANGE RESOURCES INC 25 Q LUICKSILVER RESOURCES INC 36 CABOT OIL & G86.0 166.0 26 CABOT OIL & G86.0 166.0 27 L RANGE RESOURCES INC 38 NORTH SUBJECT OIL & G86.1 167.0 39 APACHE CORP 20 SHELL CIL CO 40 J 455.9 2,450.1 147.5 21 CHEVRON CORP 40 J 455.9 2,258.0 399.0 21 CHEVRON CORP 40 J 455.9 2,258.0 399.0 21 CHEVRON CORP 40 J 456.9 2,258.0 399.0 21 CHEVRON CORP 40 J 459.9 2,258.0 399.0 22 L PASO ENERGY 40 J 418.6 680.1 875.5 24 RANGE RESOURCES CORP 40 J 146.9 2,611.7 130.6 25 QUICKSILVER RESOURCES INC 40 J 146.9 9.97 1,556.0 61.6 26 CABOT OIL & GAS CORP 40 J 17.2 2 2013.2 97.9 27 HIGHMOUNT EXPLOR & PROD TEXAS LLC 40 J 17.2 2 10.0 15.0 1.0 15.0 1.0 15.0 15.0 15.0 1	7 E	XXONMOBIL CORP	(w)	521.4	11,688.0	566.0	
10 ULTRA PETROLEUM INC			(w)	576.7	6,350.1	422.3	
11 QUESTAR CORP			(w)	1,027.9	7,764.0	817.0	
11 QUESTAR CORP	10 U	LTRA PETROLEUM INC			3,736.6	172.2	
12 THE WILLIAMS COMPANIES INC 13 SOUTHWESTERN ENERGY PRODUCTION CO (W) 425.2 3,650.3 299.7 14 EQUITABLE RESOURCES INC (W) 138.1 4,056.1 104.3 15 NEWFIELD EXPLORATION CO (W) 246.1 2,605.0 172.0 16 PETROHAWK OPERATING CO (W) 246.1 2,605.0 172.0 16 PETROHAWK OPERATING CO (W) 246.1 2,605.0 172.0 17 OCCIDENTAL PETROLEUM CORP (W) 355.0 2,799.0 232.0 18 PIONEER NATURAL RESOURCES USA INC (W) 215.9 2,450.1 147.5 19 APACHE CORP (W) 355.7 2,440.3 243.6 20 SHELL OIL CO (W) 495.9 2,258.0 399.0 21 CHEVRON CORP (W) 355.7 2,440.3 243.6 21 CHEVRON CORP (W) 495.9 2,258.0 399.0 22 EL PASO ENERGY (W) 314.4 2,052.0 215.0 22 EL PASO ENERGY (W) 314.4 2,052.0 215.0 23 SANDRIDGE ENERGY INC (W) 148.6 680.1 87.5 24 RANGE RESOURCES CORP (W) 146.9 2,614.7 130.6 25 QUICKSILVER RESOURCES INC (W) 99.7 1,556.0 61.6 26 CABOT OIL & GAS CORP (W) 117.2 2,013.2 97.9 27 HIGHMOUNT EXPLOR & PROD TEXAS LLC (W) 192.4 1,534.0 145.4 30 FOREST OIL CORP (W) 163.9 1,415.4 116.0 29 C N X GAS CO LLC (W) 155.4 1,911.4 49.4 30 FOREST OIL CORP (W) 163.9 1,415.4 116.0 31 SAMSON RESOURCES CORP (W) 150.1 1,186.6 118.0 31 SAMSON RESOURCES CORP (W) 36.6	44.0				•		
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36 NFR ENERGY LLC (w) 28.4	35 A	NTERO RESOURCES CORP			-	72.0	
37 MERIT ENERGY CO (W) 87.1	36 N	FR ENERGY LLC			_	_	
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41 CONTINENTAL RESOURCES INC (w) 37.0 504.1 21.6 42 MARATHON OIL CORP (w) 188.5 820.0 146.0 43 PENN VIRGINIA CORP (w) 48.9 776.7 43.3 44 J - W OPERATING CO (w) 75.8 - 45 HILCORP ENERGY CO (w) 94.9 - 46 ENERVEST LTD (w) 104.0 - 47 BERRY PETROLEUM CO (w) 38.5 632.2 22.7 48 COMSTOCK RESOURCES INC (w) 80.0 682.4 60.8 49 CONTANGO OPERATORS INC (w) 72.9 280.6 20.5 50 DTE ENERGY CORP (w) 31.2 234.0 5.0		31-40 Subtotal	15,309.8				
43 PENN VIRGINIA CORP (w) 48.9 776.7 43.3 44 J - W OPERATING CO (w) 75.8 45 HILCORP ENERGY CO (w) 94.9 46 ENERVEST LTD (w) 104.0 47 BERRY PETROLEUM CO (w) 38.5 632.2 22.7 48 COMSTOCK RESOURCES INC (w) 80.0 682.4 60.8 49 CONTANGO OPERATORS INC (w) 72.9 280.6 20.5 50 DTE ENERGY CORP (w) 31.2 234.0 5.0	41 C				504.1		
43 PENN VIRGINIA CORP (w) 48.9 776.7 43.3 44 J - W OPERATING CO (w) 75.8 - - 45 HILCORP ENERGY CO (w) 94.9 - - 46 ENERVEST LTD (w) 104.0 - - 47 BERRY PETROLEUM CO (w) 38.5 632.2 22.7 48 COMSTOCK RESOURCES INC (w) 80.0 682.4 60.8 49 CONTANGO OPERATORS INC (w) 72.9 280.6 20.5 50 DTE ENERGY CORP (w) 31.2 234.0 5.0	42 N	IARATHON OIL CORP					
44 J - W OPERATING CO (w) 75.8 - - 45 HILCORP ENERGY CO (w) 94.9 - - 46 ENERVEST LTD (w) 104.0 - - 47 BERRY PETROLEUM CO (w) 38.5 632.2 22.7 48 COMSTOCK RESOURCES INC (w) 80.0 682.4 60.8 49 CONTANGO OPERATORS INC (w) 72.9 280.6 20.5 50 DTE ENERGY CORP (w) 31.2 234.0 5.0	43 P	ENN VIRGINIA CORP					
45 HILCORP ENERGY CO (w) 94.9	44 J	- W OPERATING CO	(w)		-	-	
46 ENERVEST LTD (w) 104.0 - - 47 BERRY PETROLEUM CO (w) 38.5 632.2 22.7 48 COMSTOCK RESOURCES INC (w) 80.0 682.4 60.8 49 CONTANGO OPERATORS INC (w) 72.9 280.6 20.5 50 DTE ENERGY CORP (w) 31.2 234.0 5.0	45 H	ILCORP ENERGY CO	(w)		-	-	
48 COMSTOCK RESOURCES INC (w) 80.0 682.4 60.8 49 CONTANGO OPERATORS INC (w) 72.9 280.6 20.5 50 D T E ENERGY CORP (w) 31.2 234.0 5.0	46 E	NERVEST LTD	(w)		-	_	
48 COMSTOCK RESOURCES INC (w) 80.0 682.4 60.8 49 CONTANGO OPERATORS INC (w) 72.9 280.6 20.5 50 D T E ENERGY CORP (w) 31.2 234.0 5.0	47 B	ERRY PETROLEUM CO			632.2	22.7	
49 CONTANGO OPERATORS INC (w) 72.9 280.6 20.5 50 D T E ENERGY CORP (w) 31.2 234.0 5.0	48 C	OMSTOCK RESOURCES INC	(w)			60.8	
50 D T E ENERGY CORP (w) 31.2 234.0 5.0	49 C	ONTANGO OPERATORS INC	(w)				
	50 D	T E ENERGY CORP	(w)				
		41-50 Subtotal	10,271.7	771.6	3,930.0	320.0	

Table 2. Top 100 Operators Ranked by 2009 Wet Natural Gas Proved Reserves (Billion Cubic Feet)

	(Billio)		ed (EIA)	Owne	Owned (SEC)	
lank	Company Name	Reserves	Production	Reserves	Production	
51 DEL	TA PETROLEUM CORP	(v	/) 17.5	126.7	17.	
52 MAR	INER ENERGY INC	(v	132.5	571.4	90.	
53 BRE	ITBURN ENERGY CO LP	(v	9.5	434.7	21.	
54 LEW	IS PETRO PROPERTIES INC	(v	25.3	-		
55 ENE	RGY CORP OF AMERICA	(v	/) 18.2	-		
56 CALI	DIVE INTERNATIONAL INC	(v	4) 31.0	387.3	27.	
57 C O	G OPERATING LLC	(v	9 36.1	416.9	21.	
58 CAR	RIZO OIL & GAS INC	(v	43.9	216.2	30.	
59 UNIT	CORP	(v	() 64.5	419.1	44	
60 TALI	SMAN ENERGY INC	(v		566.2	26	
04 4145	51-60 St			3,138.5	278	
	RADA HESS CORP	(v		306.0	39	
	/BOURNE OIL CO	(v		-		
	ES PETROLEUM CORP	(v		-		
	ENERGY INC	(v		449.5	71	
	TING PETROLEUM CORP	(v		307.4	29	
	ELITY EXPLORATION & PROD CO	(v		448.4	56	
	EDO PETROLEUM INC	(v		-		
	X RESOURCES INC	(v		333.2	12	
	DDRICH PETROLEUM CORP	(v		415.3	28	
70 ATL/	AS ENERGY INC	(V		486.7	35	
71 SWII	FT ENERGY CO	<i>ıbtotal</i> 5,218.		2,746.5	273	
	SER - FRANCIS OIL CO	(v (v	1	290.6	21	
	NS EXPLORATION & PRODUCTION C	· ·	1	873.1	78	
	ROLEUM DEVELOPMENT CORP	(v (v		608.9		
	OCO INC	(v (v	1	278.1	35 24	
	RIDAN PRODUCTION CO LLC	(· (v		270.1	2-	
	EAVOR ENERGY RESOURCES LP	(· (v		-		
	ORE ACQUISITION CO	(· (v	1	439.1	33	
79 BOP		(v	1	400.1	00	
	ETTA RESOURCES INC	(v	1	297.0	44	
	71-80 St	-		2,786.8	237	
81 GRA	NITE OPERATING CO	(v	4.6	-		
82 SED	NA ENERGY INC	(v	8.8	-		
83 PHIL	LIPS RESOURCES INC	(v	/) 17.7	-		
84 APP	ROACH RESOURCES INC	(v	12.6	168.3	6	
85 A T I	POIL & GAS CORP	(v	/) 18.5	233.0	12	
86 RED	WILLOW PRODUCTION CO	(v	<i>y</i>) 52.6	-		
87 LLO	G EXPLORATION CO	(v	() 64.7	-		
88 HUN	T OIL CO	(v	() 66.5	-		
89 NEW	/ DOMINION LLC	(v	1) 25.3	-		
90 WAL	TER OIL & GAS CORP	(v	() 62.8	-		
	81-90 St	· .		401.3	18	
	NE ENERGY CORP	(v		216.7	41	
	RGY XXI GOM LLC	(v		168.8	17	
	A ENERGY LLC	(v		-		
	IONAL FUEL GAS	(v		249.0	22	
	DEN & BLAKE CORP	(v		163.0	12	
	PETROLEUM CO INC	(v		629.0	155	
	MORAN OIL & GAS LLC	(v		178.8	55	
	ENCE OPERATING CO	(v		-		
	NS OIL & GAS INC	(v		-		
100 CAM	ITERRA RESOURCES INC	(v		-		
	91-100 St			1,605.3	304	
•	100 Subtotal	251,694.		163,905.7	12,582	
fota	I U.S.	283,879.	0 22,537.0	-		

Operated: Form EIA-23. Ownership: SEC Forms 10-K, 20-F and 40-F. (w) = withheld.

Note: Form EIA-23 proved reserves are the sum of ten companies due to confidentiality. - = N/A.