

# The Oil & Gas Producing Industry in Your State



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### 2003: Economic Recovery and Asian Demand Drive Energy Markets

By Frederick Lawrence - Vice President of Economics & International Affairs, IPAA

The year 2003 was marked by international events that brought little respite to an industry endeavoring to find equilibrium since the events of the previous two years. Prices reached 20-year highs for oil and natural gas. Record nominal prices would follow geopolitical instability in Venezuela and Nigeria and conflict in Iraq. These international events influenced global markets and flowed to the U.S. where demand was continuing to build with a robust economy, especially after the fallout in 2001.

A cold winter in the U.S. and low inventories exacerbated the already tight market. In February, commercial crude stocks fell to the lowest level since 1975 and just slightly below the lower operational inventory level of 270 million barrels. OPEC raised the aggregate production quota of its members (excluding Iraq) to 24.5 million barrels per day (MMB/d), up from 23 MMB/d and Russia would boost its production to average 8.1 MMB/d - up almost 26 percent from 2000 level. Saudi Arabia's output increased by over 1 Mmb/d to reach a 22-year high of over 9.8 Mmb/d according to *BP Statistics*. Russia's growth of 840,000 b/d represented the primary non-OPEC growth with slight builds by Mexico and Canada. Meanwhile, crude production in the U.S. continued to fall - the 10th year of such declines. Imports rose to constitute over 61 percent of demand.

One macro event was followed by another just as petroleum demand and imports would hit new highs. Recovery from the strike in Venezuela was countered by civil unrest in Nigeria and military action commenced in Iraq on March 19th. As the year ended, Russia stole the show with the arrest of the head of Yukos on charges of fraud and tax evasion. Access to the resource base and energy security gathered heightened attention, whether looking at Iraq, U.S. import dependence, Russian and Venezuelan political risk or China's growing search for international resources necessary to sustain the country's robust economic growth.

In mid-year, Federal Reserve Chairman Alan Greenspan warned about rising natural gas prices and potential economic impacts. In late September, the National Petroleum Council released a report that called for increased domestic gas exploration and growth in the imports of liquefied natural gas (LNG).

Greenspan warned, "I have no doubt that . . . if we stay at these elevated prices we're going to see some erosion in a number of macro-economic variables which are not evident at this stage. A very significant amount of natural gas using infrastructure in the American economy was based on 2\$ gas. That means a lot of noncompetitive structures are sitting out there."

Regarding industry employment, the Bureau of Labor Statistics (NAICS) disaggregated 'oil and gas extraction' from associated industries (services, contractors, support activities, etc.) resulting in E&P extraction employment numbers being presented more precisely. The 2003 average oil and gas extraction workforce stood at 120,328 with a monthly low of 119,058 in January and a monthly high of 121,696 in July before falling to 121,089 in December (compares to 119,994 in December 2002). The 2003 and 2002 yearly averages fell from 123,599 average employees in 2001. The 2003 average for employees involved in drilling oil and gas wells was 51,526, up from 48,596 in 2002 but down considerably from the 62,012 drillers in 2001. The 2003 average for support activities for oil and gas operations stood at 120,992, comparing to 120,536 for 2002 and 123,420 for 2001.

For 2003, imports of crude oil and petroleum products averaged 12.26 MMB/d, an estimated increase of 734,000 b/d or six percent from 2002. Imports constituted over 58 percent of domestic petroleum demand in 2002 and the figure for 2003 topped 61 percent. Fifteen years ago, by comparison, imports comprised just over 40 percent of U.S. needs and constituted a \$39 billion trade value price tag (imports only) compared to the \$132.4 billion burden in 2003. Imports of refined products in 2003 averaged 2.60 MMB/d, up almost nine percent from 2.39 MMB/d in 2002. Finished gasoline imports were up almost four percent in 2003 while distillate and residual imports were up almost 25 and 31 percent, respectively.

Crude oil imports increased to 9.67 MMB/d, up almost six percent from 9.14 MMB/d in 2002. Our top importers for crude and petroleum products in 2003 were Canada, Saudi Arabia, Mexico, Venezuela, Nigeria, and Iraq. New importers helped replace decreased Iraqi imports. OPEC imports made up 42 per-

cent of U.S. imports in 2003, up two percent from 2002 but down almost eight percent (in percentage terms) from 1993 levels. In 2003, Russia exported an average of 254,000 b/d to the U.S. - a 21 percent increase from 2002 and a 182 percent increase from 2001 levels. The Strategic Petroleum Reserve (SPR) added 39 million barrels in 2003 reaching an historic high of 638 million barrels. Petroleum product supplied increased 1.4 percent in 2003 (up 17.9 percent since 1990) and refinery inputs were up 1.2 percent (up 13.2 percent since 1990). In 2003, petroleum comprised 39.7 percent of total U.S. energy consumption (compared to 23.5 percent for natural gas and 22.7 percent for coal).

Annual natural gas imports for 2003 amounted to 4.0 Trillion cubic feet (Tcf), almost three times the natural gas imports in 1990 (1.5 Tcf). Imports of natural gas have been rising fairly steadily since 1986 - up almost 424 percent (25 percent per year annualized) - while our dry production is up only 19 percent (or 1.1 percent per year annualized) over the same time period. More recently, imports are down slightly in 2003 compared with 2002, primarily due to expanding exports (with increases to Canada and Mexico) and reduced pipeline imports from Canada. Exports in 2003 increased by almost 32 percent to 680 Billion cubic feet (Bcf) and Canadian imports fell by over eight percent to 3.5 Tcf.

Despite difficulties in expanding production, Canada easily maintained its role as the major supplier of gas imports, doubling its level of imports to the U.S. in 1991. LNG imports to the U.S. grew by over 121 percent in 2003 with supply growth from Trinidad, Nigeria, Algeria and Oman. Strong gas prices brought in spot cargoes from traditional sources and new growth regions such as Trinidad & Tobago. It is important to note that in 2003, LNG imports collectively supplied just over two percent (up from one percent in 2002) of our total natural gas demand.

Natural gas demand in the U.S. fell by almost five percent but world consumption outside the U.S. averaged over four percent according to *BP Statistics*. Global LNG sales rose by over 12 percent, indicating a trend on both the Atlantic and Pacific energy markets.

Estimated crude oil production (ex-NGLs) in

2003 averaged 5.68 MMB/d, compared to 5.75 MMB/d in 2002, representing a 1.67 MMB/d (almost 35 percent) decrease since 1990. U.S. crude production has fallen for 12 straight years. Compared to 2002, crude oil production in the lower-48 states (including offshore) dropped slightly to 4.71 MMB/d in 2003, while Alaskan production dropped to 0.97 MMB/d. The Federal Offshore share of lower-48 production grew by over four percent from 2002 to 1.71 MMB/d, representing almost 30 percent of U.S. production. Natural gas liquid (NGL) production for 2003 averaged 1.72 MMB/d compared to 1.88 MMB/d in 2002. Production from stripper wells (producing ten barrels per day or less) rose to an average rate of 887,059 b/d in 2002 compared to 866,000 b/d in 2001 according to the Interstate Oil and Gas Compact Commission (IOGCC).

Notable year-to-date increases in crude production occurred in the Federal Offshore, Kansas, Montana, and Kentucky but generally the decliners led the gainers. Seismic activity in 2003 fell 30 percent behind year-ago levels, reflecting ongoing challenges in the exploration and newfield market. The average number of monthly seismic crews in 2003 dropped to 40 from a monthly average of 52 in 2002. According to the *American Oil and Gas Reporter*, the average number of drilling permits (received and applied for) in 2003 was 3,644, up from an average of 2,971 in 2002.

Preliminary data showed that dry natural gas production in 2003 was estimated at 19.04 Tcf, up 0.57 percent from 18.93 Tcf for 2002. In 2003, gross withdrawals (including lease condensate) of natural gas amounted to 24.06 Tcf, up from 23.94 Tcf in 2002. Increased gas-directed rig activity and higher gas field revenues resulted in marginal growth. Notable year-to-date marketed production increases occurred in Texas, Oklahoma, Colorado, Wyoming, Mississippi, Alaska and Louisiana. Data from state agencies and *World Oil* estimates indicated only seven states showing declines in producing wells - of these, only Arkansas, Utah and California have significant numbers. The top ten gas-well states, representing 85 percent of total U.S. gas wells, increased 4.9 percent, or by 15,716 wells, to 333,722 gas wells.

Regarding state natural gas production, Alabama replaced California for the 9th slot and Pennsylvania replaced Oklahoma as the third ranked state in natural gas wells drilled. Preliminary data from the EIA showed a 110 Bcf drop (2.4 percent) in 2003 Federal Offshore gross withdrawals compared to 2002. According to BP, "North America was the only region to see a decline in gas production, as lower Canadian output was only

partially offset by small gains in the USA and Mexico."

According to the IOGCC, the number of stripper gas wells (producing 60 Million cubic feet - Mcf - per day or less) totaled 245,961 in 2002, up almost five percent from 2001. These wells collectively produced 1.4 Tcf (3.9 Bcf/d) with an average daily production per well of 15.8 Mcf.

In 2003, the U.S. rotary rig count averaged 1,032 rigs, an increase of 202 from the annual average in 2002. Approximately 15 percent of rigs were oriented toward oil and 85 percent toward natural gas. The natural gas average of 872 rigs for 2003 was almost 26 percent higher than the annual average in 2002 and the oil average of 157 rigs was 15 percent higher than the 2002 average. The 2003 natural gas rig count reached a yearly high of 952 for the week of November 7th, a level last reached during the week of September 28, 2001. The oil-directed rig count ranged between a low of 127 for the week of January 3, 2003 to a high of 187 reached during the week of April 4, 2003. The average workover rig count in 2003 was 1,129 compared to 1,095 in 2002. Workover activity exhibited the largest yearly increases in West Texas, the Texas Gulf Coast, the Southeast, and the Rocky Mountains. The average well-servicing rig count for 2003 was 1,967, up from 1,830 in 2002.

In 2003 according to the American Petroleum Institute, total estimated well completions increased almost 19 percent, rising to 33,436 from 27,794 in 2002. The year yielded an estimated 20,715 gas well completions, 8,710 oil well completions and 4,011 dry holes; up 23 percent, 21 percent, and six percent, respectively, from 2002 figures. Preliminary completion numbers in 2003 showed a 62 percent gas orientation, a 26 percent oil focus and 12 percent constituting dry holes. Total exploratory completions rose by almost 13 percent in 2003 to 2,580 wells (53.6 percent dry) and total development wells rose almost 21 percent to 30,856 completions. Total well footage rose by over 23 percent between 2002 and 2003 to 178.5 million feet. *World Oil* showed a total of 520,318 producing crude wells (57.1 percent) in 2003 compared to 391,336 (42.9 percent) producing natural gas wells. Compared to 2002, the number of producing oil wells dropped by 8,475 (almost two percent) and natural gas wells rose by 19,474 (over five percent).

In 2002, crude oil reserves increased one percent to 22,677 million barrels, due primarily to reserve extensions, particularly in Texas, California, and the Gulf of Mexico Federal Offshore. Alaska reported a decline in crude oil proved reserves. Crude reserve additions

replaced 112 percent of 2002 U.S. crude oil production. Natural gas liquids grew by one million barrels in 2002 to 7,994 million barrels. Reserve additions replaced 100 percent of 2002 NGL production. Dry natural gas reserves increased 1.8 percent to 186.95 Tcf. Producers replaced 118 percent of 2002 dry natural gas production but gas production declined by two percent in 2002 with sharp declines in the Gulf of Mexico partially offset by large production increases in the Rocky Mountain States.

Texas and the Rocky Mountain States dominated gas reserve additions, signifying the ongoing shift from conventional fields to unconventional gas fields. Coal bed natural gas accounted for ten percent of proved dry natural gas reserves and eight percent of dry gas production. Wyoming, New Mexico, Colorado, Utah and Montana collectively represented over 30 percent of U.S. proven gas reserves. Measured by reserves, 11 of the top 20 natural gas fields of 2002 were located in the Rocky Mountain region. Texas comprised a 24 percent share and the Federal Offshore held almost 14 percent of gas reserves.

China's appetite for commodities commands attention. When looking at the world's overall energy supply and demand, the increase of electrification and fuel demand in China (industrial growth and automobile proliferation) have rising implications. Global demand pressures (starring China, India, and developing Asia) are challenging the limits of global spare capacity. China's growth plays an inordinate role in driving global crude markets and this looks to continue despite attempts by the country's government to slow the pace of growth. One International Energy Agency Report noted "Preliminary data indicate that Chinese apparent demand surged by more than 900,000 b/d in the first quarter of 2004, a gain of nearly 18 percent year-on-year." According to the *Financial Times*, between 2000 and 2003 China "accounted for 40 percent of the growth in world oil demand."

This growth is not just limited to petroleum but affects the gamut of other natural resources. According to the Deputy Director of China's State Environmental Protection Administration, "In the past 20 years the consumption of oil had risen 100 percent, natural gas 92 percent, steel 143 percent, copper 189 percent and aluminum 380 percent. But while China has 21 percent of the world's population, it has only a fraction of its reserves of oil, natural gas, iron ore, alumina and other resources." Energy security and resource diversification have important domestic and international ramifications - especially in countries where political stability and economic growth rely so heavily on

resource development.

As spare capacity continues to shrink, production in emerging areas such as Russia, Kazakhstan, and West Africa will be critical. Russia led non-OPEC supply growth with an increase of 2.13 Mmb/d between 1994 and 2003, according to the *BP Statistical Review of World Energy*. It will be important to monitor the capability of Russia and the Caspian region to sustain production increases. Kazakhstan has raised its production by 681,000 b/d between 1994 and 2003 and looks to factor largely in regard to new growth potential. The Former Soviet Union comprised 13.63 percent of the world's total production in 2003, compared to 13.27 percent for Saudi Arabia, 39.82 percent for OPEC (including Saudi Arabia) and 46.55 percent for non-OPEC (excluding Former Soviet Union).

Regarding natural gas, the 2003 National Petroleum Council report, *Balancing Natural Gas Policy - Fueling the Demands of a Growing Economy*, provided detailed analysis regarding the supply and demand of this critical fuel going forward. It noted that "the largest component of North American supply remains traditional supply sources in the United States and Canada. These sources supply almost 100 percent of U.S. and Canadian demand today, and are expected to still represent over 75 percent of demand in 2025." It also noted key growth and decline areas: "In the U.S. lower-48, growth in the Rockies and deepwater Gulf of Mexico is offsetting declines in virtually all other U.S. mature basins. In Canada, production from the Western Canada Sedimentary Basin is also expected to decline throughout the study period, with some increases from offshore Eastern Canada."

"While North American production grew 11 Bcf/d (1.8 per year) between 1990 and 2002, growth slowed dramatically after 1996. Growth in the lower-48 Rocky Mountains, deepwater Gulf of Mexico, and more recently, East Texas/North Louisiana has been offset by production losses in other regions, particularly the Gulf of Mexico shelf and Midcontinent. Canadian production growth, which comprised 65 percent of the total growth since 1990, slowed dramatically and began to decline, even as the number of Canadian gas well completions more than tripled."

Unconventional natural gas continued to grow its market share as more conventional sources were depleting in areas open to resource development. "Conventional gas production in the U.S. lower-48 has been declining since 1990 and nonconventional production (tight gas, coal bed methane, and

shale gas) has doubled from 12 percent to 25 percent of production. Aside from deepwater Gulf of Mexico, the only U.S. basins maintaining sustainable production increases (Rockies, East Texas/North Louisiana) have been driven by increased nonconventional production."

The Report detailed specific natural gas production trends that depict maturing prospects and steepening decline rates. "Average estimated ultimate recovery (EUR) per gas connection in the U.S. lower-48, excluding nonconventional and the deepwater Gulf of Mexico, fell 15 percent between 1990 and 1999 as the resource base matured and technology gains and higher prices made smaller prospects economic. As drilling ramped up in response to the 2000-2001 price spike, average EUR fell a further 18 percent, as more marginal wells were drilled. Western Canadian average EUR has fallen dramatically as the basin has matured and the industry concentrated on lower-risk, shallow-depth drilling."

"Initial production rates (IPs) increased markedly through the early to mid-1990s, helping the industry to maintain production rates, as the industry employed technology to accelerate production and improve drilling economics. Increases in IPs flattened in the latter part of the 1990s as per-well reserves fell and fracture technology implementation neared saturation level in most basins. Declining EURs and increasing IPs have resulted in steepening initial well decline rates."

"As more and more high decline wells have been added to base production, base decline rates have steadily risen. The decline rate of lower-48 base production has increased to over 25 percent, from just over 15 percent in the early 1990s. Just to maintain production levels requires first year production from new wells of 12-13 Bcf/d, up from 8 Bcf/d in 1992. Western Canada has shown a similar increase in base decline."

"Industry responded aggressively to the 2000-2001 price spike, with the gas rig count climbing to an all-time high over 1,050. The incremental activity yielded a limited production response as: (1) the resource base continued to mature, (2) additional drilling yielded very low marginal results, (3) much of the incremental activity occurred in low rate regions, (4) gains from completion/stimulation technology slowed, (5) base decline rates continued to increase, (6) higher gas prices made it possible to drill lower quality prospects, and (7) rig efficiency declined."

The issue of workforce attrition continues to rise in prominence as more wells are drilled

and demand increases. The U.S. consumed almost 26 percent (over 20 Mmb/d) of the world total petroleum consumption in 2003 according to the *BP Statistical Review*. Access to skilled labor and rigs joins access to the resource base as a critical industry priority as we endeavor to supply our nation with domestic oil and natural gas. According to experts, over half of the industry will retire in the next 7-10 years. New entrants to the industry will need experience and increasing levels of technical expertise as producers focus on unconventional production, more complex geology and enhanced recovery. Much of this burden will fall on the U.S. independents that drill 90 percent of the nation's wells and produce 68 percent of oil and 82 percent of natural gas.

The Information Services Department has continued to expand the resources available in *The Oil and Gas Industry in Your State*. The department is also building upon the information provided through the IPAA website - <http://www.ipaa.org>. In addition to adding an electronic version of the *U.S. Oil and Gas Producing Industry in Your State* - <http://www.ipaa.org/info/InYourState> and the *U.S. Petroleum Statistics* - <http://www.ipaa.org/info/econreports/usps.asp> you can also access key resources on our international webpage - <http://www.ipaa.org/int>. IPAA would like to thank all of the participating state, association, and industry contacts for their continued assistance in the review and collection of data. Please contact Fred Lawrence ([flawrence@ipaa.org](mailto:flawrence@ipaa.org)) with any ideas and comments.

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(614) 265-6633  
(614) 265-7999 Fax  
<http://www.ohiodnr.com/mineral/index.html>

**Oklahoma Corporation Commission**  
Oil and Gas Division  
P.O. Box 52000/2101 N. Lincoln Blvd.  
Oklahoma City, OK 73152-2000  
(405) 521-2211  
<http://www.occ.state.ok.us/>

**Oregon Department of Geology and Mineral Industries**  
800 NE Greymont St., #28, Room 965  
Portland, OR 97232  
(503) 731-4100  
(503) 731-4066 Fax  
<http://www.oregongeology.com/oil/oilhome.htm>

**Pennsylvania Dept. of Environmental Resources**  
Oil and Gas Division  
Rachel Carson St. Office Bldg., Box 8765  
Harrisburg, PA 17105-8765  
(717) 772-2199  
(717) 772-2291 Fax  
<http://www.dep.state.pa.us/dep/deputate/minres/oilgas/oilgas.htm>

**South Dakota Dept. of Environment & Natural Resources**  
523 E. Capitol - Joe Foss Bldg.  
Pierre, SD 57501  
(605) 773-3151  
(605) 773-6035 Fax  
<http://www.state.sd.us/denr/denr.html>

**Tennessee Dept. of Geology & Conservation**  
Oil and Gas Board  
401 Church St., 13th Fl.  
Nashville, TN 37243  
(615) 532-0445  
<http://www.state.tn.us/environment/>

**Texas Railroad Commission**

Office of Information Services - P.O. Drawer 12967  
 Austin, TX 78711-2967  
 (512) 463-6887  
<http://www.rrc.state.tx.us/>

**Utah Department of Natural Resources**

1594 West North Temple/P.O. Box 145801  
 Salt Lake City, UT 84114-5801  
 (801) 538-5277  
 (801) 359-3940 Fax  
<http://dogm.nr.state.ut.us/>

**Virginia Division of Energy**

Dept. of Mines, Minerals & Energy -PO Drawer 900  
 Big Stone Gap, VA 24219  
 (276) 523-8146  
<http://www.mme.state.va.us/dgo/default.htm>

**West Virginia Office of Oil & Gas**

1356 Hansford St.  
 Charleston, WV 25301  
 (304) 558-6075  
 (304) 558-6047 Fax  
<http://www.dep.state.wv.us>

**Wyoming Dept. of Environmental Quality**

122 West 25th Street - Herscheler Bldg.  
 Cheyenne, WY 82002  
 (307) 777-7937  
 (307) 777-7682 Fax  
<http://deq.state.wy.us/>

**Wyoming Oil and Gas Conservation Commission**

Box 2640/777 West First Street  
 Casper, WY 82602  
 (307) 234-7147  
 (307) 234-5306 Fax  
<http://wogcc.state.wy.us/>

**Federal Organizations****Energy Information Administration**

Forrestal Building - Room 1F-048  
 1000 Independence Avenue, S.W.  
 Washington, D.C. 20585  
 (202) 586-5000  
<http://www.eia.doe.gov>

**Federal Energy Regulatory Committee**

888 First St., NE, Room 2-A  
 Washington, D.C. 20426  
 (866) 208-3372  
<http://www.ferc.gov>

**National Petroleum Technology Office**

One West Third St., Suite 1400  
 Tulsa, OK 74103-3519  
 (918) 699-2000  
 (918) 699-2005 Fax  
<http://www.npto.doe.gov>

**U.S. Department of Energy - Fossil Energy Dept.**

1000 Independence Avenue, S.W.  
 Washington, D.C. 20585  
 (202) 586-6503  
<http://www.fe.doe.gov>

**U.S. Dept. of the Interior - MMS**

Mail Stop 3000, P.O. Box 25165  
 Denver, CO 80225  
 (303) 231-3230  
<http://doi.gov> & <http://mms.gov>

**U.S. Environmental Protection Agency**

Ariel Rios Bldg. 1200 Penn. Ave., N.W., 3213A  
 Washington, DC 20460  
 (202) 260-2090  
<http://www.epa.gov>

**U.S. Geological Survey**

12201 Sunrise Valley Dr.  
 Reston, VA 20192  
 (703) 648-4000  
<http://www.usgs.gov/>

**Oil and Gas Museums**

Arkansas Museum of Natural Resources  
 (870) 863-6113  
<http://www.boomtown.org/recreation/museum.html>

Arkansas Museum of Natural Science  
 (870) 725-2877  
<http://www.msstate.edu/dept/geosciences>

Brea Museum and Heritage Center-CA  
 (714) 256-2283  
<http://www.breamuseum.org/>

California Oil Museum  
 (805) 933-0076  
<http://www.oilmuseum.net/welcome.html>

Kern County Museum - CA  
 (661) 852-5000  
<http://www.kcmuseum.org/>

Olinda Historic Museum and Park - CA  
 (714) 990-7600  
<http://www.ci.brea.ca.us/>

West Kern County Museum - CA  
 (661) 765-6664  
<http://www.westkern-oilmuseum.org/>

Denver Museum of Nature & Science - CO  
 (303) 322-7009  
<http://www.dmns.org/main/en/>

Illinois Oilfield Museum & Resource Center  
[http://www.theonlyoblong.com/oil\\_field/oblong\\_oil-field.html](http://www.theonlyoblong.com/oil_field/oblong_oil-field.html)

Museum of Science & Industry, Petroleum Planet -IL  
 (773) 684-1414  
<http://www.msichicago.org/index.html>

Kansas Oil Museum and Hall of Fame  
 (316) 321-9333  
<http://skyways.lib.ks.us/museums/kom/>

Oil Patch Museum - KS  
 (785) 483-3637  
<http://www.rchs.rwisp.com/index.html>

The Kansas Oil & Gas Hall of Fame Museum  
 (620) 793-5742  
<http://greatbend.com/gbconven/oilgas.htm>

Louisiana State Oil and Gas Museum  
 (318) 995-6845  
<http://members.aol.com/CaddoPine/index.htm>

International Petroleum Museum & Exposition - LA  
 (985) 384-3744  
<http://www.rigmuseum.com/>

Pioneer Oil Museum - NY  
 (585) 373-6035  
[http://rin.buffalo.edu/c\\_alle/comm/cult/muse/agen/pioneer.html](http://rin.buffalo.edu/c_alle/comm/cult/muse/agen/pioneer.html)

Wood County Historical Center & Museum - OH  
 (419) 352-0967  
<http://www.woodcountyhistory.org>

Anadarko Basin Museum of Natural History - OK  
 (580) 243-0437  
<http://www.itlnet.net/web/route66/page4.html>

Bartlesville Area History Museum - OK  
 (918) 337-5336  
<http://www.bartlesvillehistory.com/>

Healdton Oil Museum-OK  
 (405) 229-0317  
<http://www.brightok.net/chickasaw/ardmore/county/healdoil.html>

Oklahoma Historical Society  
 (405) 521-2491  
<http://www.ok-history.mus.ok.us/>

Greater Seminole Area Oil & Historical Museum  
 (405) 382-1500  
<http://www.seminoleoklahoma.com/museum/>

Drake Well Museum - PA  
 (814) 827-2797  
<http://www.drakewell.org/index.htm>

The Oil Heritage Region - PA  
 (800) 483-6264, Ext. 18  
<http://www.oilregiontourist.com/>

Penn-Brad Oil Museum - PA  
 (814) 368-5574  
<http://pennbradoilmuseum.com/>

Petroleum History Institute - PA  
<http://www.petroleumhistory.org/>

East Texas Oil Museum  
 (903) 983-8295  
<http://www.easttexasoilmuseum.com/index.html>

Houston Museum of Natural Science  
 (713) 639-4629  
<http://www.hmns.org/Index.asp>

Panhandle-Plains Historical Museum  
 (806) 651-2244  
<http://www.panhandleplains.org/>

Spindletop - Gladys City Boomtown Museum - TX  
 (409) 835-0823  
<http://spindletop.org/default.htm>

Texas Energy Museum  
 (409) 833-5100  
<http://www.texasenergymuseum.org/front2.htm>

Ocean Star Offshore Drilling Rig and Museum - TX  
 (409) 766-STAR  
<http://www.oceanstaroec.com/Default.htm>

West Virginia Oil & Gas Museum  
 (304) 485-5446  
<http://www.little-mountain.com/oilandgasmuseum/>

# Cooperating Oil & Gas Associations

**American Association of Professional Landmen**  
4100 Fossil Creek Blvd.  
Fort Worth, TX 76137-2791  
(817) 847-7700  
(817) 847-7704 Fax  
<http://www.landman.org>

**Association of Energy Service Companies**  
10200 Richmond Avenue  
Houston, TX 77042  
(713) 781-0758  
(713) 781-7542 Fax  
<http://www.aesc.net>

**California Independent Petroleum Association**  
11121 Street, Suite 350  
Sacramento, CA 95814  
(916) 447-1177  
(916) 447-1144 Fax  
<http://www.cipa.org>

**Colorado Oil & Gas Association**  
1776 Lincoln Street, Suite 1008  
Denver, CO 80203  
(303) 861-0362  
(303) 861-0373 Fax  
<http://www.coga.org>

**Domestic Petroleum Council**  
101 Constitution Ave., NW, Suite 800  
Washington, DC 20001-2133  
(202) 742-4300  
<http://www.dpcusa.org>

**East Texas Producers & Royalty Owners Assoc.**  
P.O. Box 1700  
Kilgore, TX 75663  
(903) 984-8671  
(903) 984-1499 Fax

**Eastern Kansas Oil & Gas Association**  
P.O. Box 355  
Chanute, KS 66720  
(620) 431-1020  
(620) 431-9325 Fax

**Florida Independent Petroleum Producers Association**  
P.O. Box 230  
Pensacola, FL 32591  
(904) 434-6830  
(904) 434-6842 Fax

**Illinois Oil & Gas Association**  
P.O. Box 788  
Mount Vernon, IL 62864  
(618) 242-2857  
(618) 242-3418 Fax  
<http://www.ioga.com>

**Independent Oil & Gas Association of New York**  
5743 Walden Drive  
Lakeview, NY 14085  
(716) 627-4250  
(716) 627-4375 Fax  
<http://iogany.org>

**Independent Oil & Gas Assoc. of Pennsylvania**  
Northridge Office Plaza II  
Wexford, PA 15090-7906  
(724) 933-7306  
(717) 933-7310 Fax

**Independent Oil & Gas Assoc. of West Virginia**  
405 Capitol St., Suite 507  
Charleston, WV 25301  
(304) 344-9867  
(304) 344-5836 Fax  
<http://www.iogawv.com>

**Independent Oil Producers' Agency**  
1228 N Street, Suite 26  
Sacramento, CA 95814  
(916) 442-7095  
(916) 442-5822 Fax

**Independent Oil Producers Assoc. Tri-State**  
2104 Lincoln Avenue  
Evansville, IN 47714  
(812) 479-9451  
(812) 476-2569 Fax

**Independent Petroleum Assoc. of Mountain States**  
518 17th Street, Suite 620  
Denver, CO 80202  
(303) 623-0987  
(303) 893-0709 Fax  
<http://www.ipams.org>

**Independent Petroleum Assoc. of New Mexico**  
529 West San Francisco St./PO Box 576  
Santa Fe, NM 87504  
(505) 984-0128  
(505) 622-8996 Fax  
<http://www.ipanm.org>

**Indiana Oil & Gas Association**  
Route 1, P.O. Box 197  
Bridgeport, IL 62417  
(618) 943-1010  
(618) 943-5301 Fax

**International Association of Geophysical Contractors**  
2550 N. Loop, W, Suite 104  
Houston, TX 77092  
(713) 957-8080  
(713) 957-0008 Fax  
<http://www.iagc.org>

**Kansas Independent Oil & Gas Association**  
105 S. Broadway, Suite 500  
Wichita, KS 67202-4262  
(316) 263-7297  
(316) 263-3021 Fax  
<http://www.kioga.org>

**Kentucky Oil & Gas Association**  
#1-A Physicians Park  
Frankfort, KY 40601  
(502) 226-1955  
(502) 226-3626 Fax  
<http://kyoilgas.org>

**Liaison Committee of Cooperating Oil & Gas Associations**  
P.O. Box 1143  
Graham, TX 76450  
(940) 549-5261  
(940) 549-4241 Fax

**Louisiana Independent Oil & Gas Association**  
P.O. Box 4069  
Baton Rouge, LA 70821-4069  
(800) 443-1433  
(225) 388-9561 Fax  
<http://www.lioga.com>

**Louisiana Landowners Association**  
P.O. Box 44121  
Baton Rouge, LA 70804-4121  
(504) 927-5619  
(504) 928-7339 Fax  
<http://www.louisiana2000/LLA/index.com>

**Michigan Oil & Gas Association**  
124 West Allegan St., Suite 1610  
Lansing, MI 48933  
(517) 487-1092  
(517) 487-0961 Fax  
<http://www.michiganoilandgasassociation.org>

**Mississippi Indep. Producers & Royalty Owners**  
P.O. Box 13393  
Jackson, MS 39236  
(601) 362-0502  
(601) 362-5397 Fax  
<http://www.mipro.ms>

**Montana Petroleum Association**  
601 Euclid Ave., P.O. Box 1186  
Helena, MT 59624-1186  
(406) 442-7582  
(406) 443-7291 Fax  
<http://montanapetroleum.org>

**National Association of Royalty Owners**  
P.O. Box 5779  
Norman, OK 73070-5779  
(405) 573-2972  
<http://www.naro-us.org>

**National Stripper Well Association**  
P.O. Box 18336  
Oklahoma City, OK 73154  
(405) 601-8002

**New Mexico Oil & Gas Association**  
P. O. Box 1864, 500 Don Gaspar  
Santa Fe, NM 87504-1864  
(505) 982-2568  
(505) 982-0811 Fax  
<http://www.nmoga.org>

**New York State Oil Producers Association**  
37 Elm St., P.O. Box 364  
Eldred, PA 16731  
(814) 225-4659

**Northern Alliance of Independent Producers**  
P.O. Box 2422  
Bismarck, ND 58502  
(701) 224-5037  
(701) 224-5038

**Ohio Oil & Gas Association**  
P.O. Box 535/1718 Columbus Rd., SW  
Granville, OH 43023-0535  
(740) 587-0444  
(740) 587-0446 Fax  
<http://www.ooga.org>

**Oklahoma Independent Petroleum Association**

3555 Northwest 58th St., Suite 400  
 Oklahoma City, OK 73112  
 (405) 942-2334  
 (405) 942-4636 Fax  
<http://www.oipa.com>

**Panhandle Producers & Royalty Owners Assoc.**

3131 Bell #209  
 Amarillo, TX 79106  
 (806) 352-5637  
 (806) 359-1274 Fax  
<http://www.pproa.org>

**Pennsylvania Oil & Gas Association**

106 Locust Grove Rd./P.O. Box 349  
 Bainbridge, PA 17405  
 (717) 426-0067  
 (717) 426-3010 Fax

**Permian Basin Petroleum Association**

P.O. Box 132/415 W. Wall, 1st Floor  
 Midland, TX 79701  
 (432) 684-6345  
 (432) 684-7836 Fax  
<http://www.pbpa.info/>

**Petroleum Association of Wyoming**

951 Werner Court, Suite 100  
 Casper, WY 82601  
 (307) 234-5333  
<http://www.pawyo.org>

**Petroleum Equipment Suppliers Association**

9225 Katy Freeway, Suite 310  
 Houston, TX 77024  
 (713) 932-0168  
 (713) 932-0497 Fax  
<http://www.pesa.org>

**Petroleum Technology Transfer Council**

16010 Barkers Point Lane, Suite 220  
 Houston, Texas 77079  
 (888) THE-PTTC/(281) 921-1720  
 (281) 921-1723 Fax  
<http://www.pttc.org>

**Society of Indep. Professional Earth Scientists**

4925 Greenville Avenue, Suite 1106  
 Dallas, TX 75206  
 (214) 363-1780  
 (214) 363-8195 Fax  
<http://www.sipes.org>

**Tennessee Oil & Gas Association**

750 Old Hickory Blvd., #285  
 Brentwood, TN 37027  
 (615) 263-1291  
 (615) 263-1282 Fax  
<http://www.tennoil.com>

**Texas Alliance of Energy Producers**

726 Scott Ave., Ste. 500  
 Wichita Falls, TX 76301  
 (800) 299-2998  
 (940) 723-4132 Fax  
<http://www.texasalliance.org>

**Texas Independent Producers & Royalty Owners Association**

515 Congress Avenue, Suite 910  
 Austin, TX 78701  
 (512) 477-4452  
 (512) 476-8070 Fax  
<http://www.tipro.org>

**Virginia Oil & Gas Association**

1007 East Watauga Ave.  
 Johnson City, TN 37601  
 (423) 926-2536  
 (423) 378-1723 Fax

**Wyoming Independent Producers Association**

P.O. Box 2325  
 Gillette, WY 82717-2325  
 (307) 686-1081  
 (307) 686-0560 Fax  
<http://www.energyconnect.com/wipa>

**Contributing Associations****Alaska Oil & Gas Association**

121 W. Fireweed, Suite 207  
 Anchorage, AK 99503  
 (907) 272-1481  
 (907) 279-8114 Fax  
<http://www.aoga.org>

**American Association of Petroleum Geologists**

1444 S. Boulder Ave./ P.O. Box 979  
 Tulsa, OK 74101  
 (800) 364-2274  
 (981) 560-2694  
<http://www.aapg.org>

**American Petroleum Institute**

1220 L St. NW  
 Washington, DC 20005-4070  
 (202) 682-8000  
 (202) 962-4776 Fax  
<http://www.api.org>

**Canadian Association of Petroleum Producers**

Suite 2100, 350 7th Avenue S.W.  
 Calgary, Alberta  
 Canada T2P 3N9  
 (403) 267-1100  
 (403) 261-4622 Fax  
<http://www.capp.ca>

**Illinois Petroleum Resources Board**

P.O. Box 491  
 Mount Vernon, IL 62864  
 (618) 242-2861  
 (618) 242-3418 Fax

**International Association of Drilling Contractors**

P.O. Box 4287/10370 Richmond Ave., Ste. 760  
 Houston, TX 77210-4287/77042  
 (713) 292-1945  
 (713) 292-1946  
<http://www.iadc.org>

**Louisiana Mid-Continent Oil & Gas Association**

801 North Blvd.  
 Baton Rouge, LA 70802  
 (225) 387-3205  
 (225) 344-5502 Fax  
<http://www.lmoga.com>

**Mid-Continent Oil & Gas Association**

6701 N. Broadway, Suite 300  
 Oklahoma City, OK 73116  
 (405) 843-5741  
 (405) 843-5746 Fax  
<http://www.okmoga.com>

**Nebraska Independent Oil & Gas Association**

P.O. Box 427  
 Kimball, NE 69145  
 (308) 235-2906  
 (308) 235-2108 Fax

**North Dakota Petroleum Council**

120 N 3rd St., P.O. Box 1395  
 Bismarck, ND 58502-1395  
 (701) 223-6380  
 (701) 222-0006 Fax  
<http://www.ndoil.org>

**Public Lands Advocacy**

1410 Grant St., Suite C-307  
 Denver, CO 80203  
 (303) 860-0212  
 (303) 860-0310 Fax  
<http://www.publiclandsadvocacy.org>

**Society of Petroleum Engineers**

P.O. Box 833836/222 Palisades Creek Drive  
 Richardson, TX 75083  
 (800) 456-6863  
 (972) 952-9435  
<http://www.spe.org>

**Southeastern Ohio Oil & Gas Association**

Rt. 1, Box 55-P  
 Marietta, OH 45750  
 (740) 374-3203  
 (740) 374-2840 Fax  
<http://www.sooga.org>

**Southwest Kansas Royalty Owners Association**

209 East 6th, Box 250  
 Hugoton, KS 67951  
 (620) 544-4333  
 (620) 544-2230 Fax  
<http://www.swkroa.com>

**Texas Oil & Gas Association**

304 W. 13th St.  
 Austin, TX 78701  
 (512) 478-6631  
 (512) 472-3859 Fax  
<http://www.txoga.org>

**Utah Petroleum Association**

533 West 2600 South, Suite 270  
 Bountiful, UT 84010  
 (801) 295-5399  
 (801) 295-5477 Fax  
<http://www.utahpetroleum.org>

**Western States Petroleum Association**

1415 L St., Ste. 600  
 Sacramento, CA 95814  
 (916) 444-9981  
<http://www.wspa.org>

**West Virginia Oil & Natural Gas Association**

P.O. Box 3231  
 Charleston, WV 25332-3231  
 (304) 343-1609

# State Rankings

| Crude Oil Wells Drilled | Natural Gas Wells Drilled | Crude Oil Production | Natural Gas Production |
|-------------------------|---------------------------|----------------------|------------------------|
| 1 Texas                 | 1 Texas                   | 1 Federal Offshore   | 1 Texas                |
| 2 California            | 2 Wyoming                 | 2 Texas              | 2 Federal Offshore     |
| 3 Oklahoma              | 3 Pennsylvania            | 3 Alaska             | 3 New Mexico           |
| 4 Kansas                | 4 Oklahoma                | 4 California         | 4 Oklahoma             |
| 5 New Mexico            | 5 Colorado                | 5 Louisiana          | 5 Wyoming              |
| 6 Louisiana             | 6 New Mexico              | 6 New Mexico         | 6 Louisiana            |
| 7 Ohio                  | 7 West Virginia           | 7 Oklahoma           | 7 Colorado             |
| 8 Montana               | 8 Louisiana               | 8 Wyoming            | 8 Alaska               |
| 9 Alaska                | 9 Kansas                  | 9 Kansas             | 9 Kansas               |
| 10 North Dakota         | 10 Montana                | 10 North Dakota      | 10 Alabama             |
| 11 Wyoming              | 11 Federal Offshore       | 11 Colorado          | 11 California          |
| 12 Federal Offshore     | 12 Michigan               | 12 Montana           | 12 Utah                |
| 13 Utah                 | 13 Alabama                | 13 Mississippi       | 13 Michigan            |
| 14 Illinois             | 14 Utah                   | 14 Utah              | 14 West Virginia       |
| 15 Indiana              | 15 Virginia               | 15 Illinois          | 15 Arkansas            |
| 16 Colorado             | 16 Mississippi            | 16 Alabama           | 16 Pennsylvania        |
| 17 Mississippi          | 17 Ohio                   | 17 Arkansas          | 17 Mississippi         |
| 18 Arkansas             | 18 Arkansas               | 18 Michigan          | 18 Ohio                |
| 19 Alabama              | 19 Indiana                | 19 Ohio              | 19 Kentucky            |
| 20 Nebraska             | 20 California             | 20 Florida           | 20 Montana             |
| 21 Michigan             | 21 Alaska                 | 21 Nebraska          | 21 Virginia            |
| 22 West Virginia        | 22 Illinois               | 22 Kentucky          | 22 North Dakota        |
| 23 Missouri             | 23 Nebraska               | 23 Pennsylvania      | 23 New York            |
| 24 Tennessee            | 24 Kentucky               | 24 Indiana           | 24 Florida             |
|                         | 25 Tennessee              | 25 South Dakota      | 25 Tennessee           |
|                         |                           | 26 West Virginia     | 26 Indiana             |
|                         |                           | 27 Nevada            | 27 Nebraska            |
|                         |                           | 28 Tennessee         | 28 South Dakota        |
|                         |                           | 29 New York          | 29 Oregon              |
|                         |                           | 30 Missouri          | 30 Arizona             |
|                         |                           | 31 Arizona           | 31 Illinois            |
|                         |                           | 32 Virginia          | 32 Maryland            |
|                         |                           |                      | 33 Nevada              |

# Crude Oil Summary

| Year | Production |       | Imports | Supply |       | Exports | Demand   |        | Crude Reserves  |              | Price<br>Oil Wellhead<br>(\$/bbl.) |       |
|------|------------|-------|---------|--------|-------|---------|----------|--------|-----------------|--------------|------------------------------------|-------|
|      | Crude Oil  | NGL   | Total   | Total  | Other | Total   | Domestic | Total  | Proved Reserves | New Reserves |                                    |       |
|      |            |       |         |        |       |         |          |        |                 |              | (mill. bbls.)                      |       |
| 1958 | 6,710      | 807   | 7,517   | 1,700  | 65    | 9,282   | 276      | 9,118  | 9,394           | 30,536       | 2,608                              | 3.01  |
| 1959 | 7,054      | 879   | 7,933   | 1,780  | 86    | 9,799   | 211      | 9,526  | 9,737           | 31,719       | 3,667                              | 2.90  |
| 1960 | 7,035      | 929   | 7,964   | 1,815  | 147   | 9,926   | 202      | 9,798  | 10,000          | 31,613       | 2,365                              | 2.88  |
| 1961 | 7,183      | 991   | 8,174   | 1,917  | 179   | 10,270  | 174      | 9,976  | 10,150          | 31,759       | 2,658                              | 2.89  |
| 1962 | 7,332      | 1,021 | 8,353   | 2,082  | 175   | 10,610  | 168      | 10,400 | 10,568          | 31,389       | 2,181                              | 2.90  |
| 1963 | 7,542      | 1,098 | 8,640   | 2,123  | 202   | 10,965  | 208      | 10,743 | 10,951          | 30,970       | 2,174                              | 2.89  |
| 1964 | 7,614      | 1,155 | 8,769   | 2,258  | 217   | 11,244  | 202      | 11,023 | 11,225          | 30,991       | 2,665                              | 2.88  |
| 1965 | 7,804      | 1,210 | 9,014   | 2,468  | 220   | 11,702  | 187      | 11,513 | 11,700          | 31,352       | 3,048                              | 2.88  |
| 1966 | 8,295      | 1,284 | 9,579   | 2,573  | 246   | 12,398  | 198      | 12,085 | 12,283          | 31,452       | 2,964                              | 2.88  |
| 1967 | 8,810      | 1,409 | 10,219  | 2,537  | 293   | 13,049  | 307      | 12,560 | 12,867          | 31,377       | 2,962                              | 2.92  |
| 1968 | 9,096      | 1,504 | 10,600  | 2,840  | 347   | 13,787  | 231      | 13,393 | 13,624          | 30,707       | 2,455                              | 2.94  |
| 1969 | 9,238      | 1,590 | 10,828  | 3,166  | 339   | 14,333  | 233      | 14,137 | 14,370          | 29,632       | 2,120                              | 3.09  |
| 1970 | 9,637      | 1,660 | 11,297  | 3,419  | 355   | 15,071  | 259      | 14,697 | 14,956          | 39,001       | 2,689                              | 3.18  |
| 1971 | 9,463      | 1,694 | 11,157  | 3,925  | 438   | 15,520  | 224      | 15,213 | 15,437          | 38,063       | 2,318                              | 3.39  |
| 1972 | 9,441      | 1,744 | 11,185  | 4,741  | 431   | 16,357  | 222      | 16,367 | 16,589          | 36,339       | 1,558                              | 3.39  |
| 1973 | 9,208      | 1,738 | 10,946  | 6,256  | 472   | 17,674  | 231      | 17,308 | 17,539          | 35,300       | 2,146                              | 3.89  |
| 1974 | 8,774      | 1,688 | 10,462  | 6,112  | 478   | 17,052  | 221      | 16,652 | 16,873          | 34,250       | 1,994                              | 6.87  |
| 1975 | 8,375      | 1,632 | 10,007  | 6,056  | 631   | 16,694  | 209      | 16,322 | 16,531          | 32,682       | 1,318                              | 7.67  |
| 1976 | 8,132      | 1,604 | 9,736   | 7,313  | 577   | 17,626  | 223      | 17,461 | 17,684          | 30,942       | 1,085                              | 8.19  |
| 1977 | 8,245      | 1,618 | 9,863   | 8,808  | 531   | 19,202  | 243      | 18,431 | 18,674          | 31,780       | 1,140                              | 8.57  |
| 1978 | 8,707      | 1,567 | 10,274  | 8,364  | 315   | 18,953  | 362      | 18,847 | 19,209          | 31,355       | 2,583                              | 9.00  |
| 1979 | 8,552      | 1,583 | 10,135  | 8,456  | 503   | 19,094  | 471      | 18,516 | 18,987          | 29,810       | 1,410                              | 12.64 |
| 1980 | 8,597      | 1,573 | 10,170  | 6,909  | 616   | 17,695  | 544      | 17,056 | 17,600          | 29,805       | 2,970                              | 21.59 |
| 1981 | 8,572      | 1,609 | 10,181  | 5,995  | 392   | 16,568  | 595      | 16,058 | 16,653          | 29,426       | 2,570                              | 31.77 |
| 1982 | 8,649      | 1,550 | 10,199  | 5,113  | 478   | 15,790  | 815      | 15,296 | 16,111          | 27,858       | 1,382                              | 28.52 |
| 1983 | 8,688      | 1,559 | 10,247  | 5,051  | 503   | 15,801  | 739      | 15,231 | 15,970          | 27,735       | 2,897                              | 26.19 |
| 1984 | 8,879      | 1,630 | 10,509  | 5,437  | 587   | 16,533  | 722      | 15,726 | 16,448          | 28,446       | 3,748                              | 25.88 |
| 1985 | 8,971      | 1,609 | 10,580  | 5,067  | 640   | 16,287  | 781      | 15,726 | 16,507          | 28,416       | 3,022                              | 24.09 |
| 1986 | 8,680      | 1,551 | 10,231  | 6,223  | 764   | 17,218  | 785      | 16,281 | 17,066          | 26,889       | 1,446                              | 12.51 |
| 1987 | 8,349      | 1,595 | 9,944   | 6,678  | 768   | 17,390  | 764      | 16,665 | 17,429          | 27,256       | 3,240                              | 15.40 |
| 1988 | 8,151      | 1,625 | 9,776   | 7,402  | 840   | 18,018  | 815      | 17,283 | 18,098          | 26,825       | 2,380                              | 12.58 |
| 1989 | 7,626      | 1,546 | 9,172   | 8,060  | 853   | 18,085  | 859      | 17,325 | 18,184          | 26,501       | 2,262                              | 15.86 |
| 1990 | 7,335      | 1,559 | 8,894   | 8,017  | 1,025 | 17,936  | 857      | 16,988 | 17,845          | 26,254       | 2,258                              | 20.03 |
| 1991 | 7,417      | 1,659 | 9,076   | 7,626  | 1,047 | 17,749  | 1,001    | 16,714 | 17,715          | 24,682       | 940                                | 16.54 |
| 1992 | 7,171      | 1,697 | 8,868   | 7,888  | 1,114 | 17,870  | 949      | 17,033 | 17,953          | 23,745       | 1,509                              | 15.99 |
| 1993 | 6,847      | 1,736 | 8,583   | 8,620  | 1,152 | 18,355  | 1,003    | 17,237 | 18,240          | 22,957       | 1,551                              | 14.25 |
| 1994 | 6,662      | 1,727 | 8,389   | 8,996  | 1,291 | 18,676  | 942      | 17,718 | 18,660          | 22,457       | 1,768                              | 13.19 |
| 1995 | 6,560      | 1,762 | 8,322   | 8,835  | 1,517 | 18,674  | 949      | 17,725 | 18,674          | 22,351       | 2,107                              | 14.62 |
| 1996 | 6,465      | 1,830 | 8,295   | 9,478  | 1,516 | 19,290  | 981      | 18,309 | 19,215          | 22,017       | 1,839                              | 18.46 |
| 1997 | 6,452      | 1,817 | 8,253   | 10,162 | 1,193 | 19,623  | 1,003    | 18,620 | 19,623          | 22,546       | 2,667                              | 17.23 |
| 1998 | 6,252      | 1,759 | 8,011   | 10,708 | 1,143 | 19,862  | 945      | 18,917 | 19,862          | 21,034       | 479                                | 10.87 |
| 1999 | 5,881      | 1,850 | 7,731   | 10,852 | 1,876 | 20,459  | 940      | 19,519 | 20,459          | 21,765       | 2,683                              | 15.56 |
| 2000 | 5,822      | 1,911 | 7,733   | 11,459 | 1,549 | 20,741  | 1,040    | 19,701 | 20,741          | 22,045       | 2,160                              | 26.72 |
| 2001 | 5,801      | 1,868 | 7,669   | 11,871 | 1,080 | 20,620  | 971      | 19,649 | 20,620          | 22,446       | 2,316                              | 21.84 |
| 2002 | 5,746      | 1,880 | 7,626   | 11,530 | 1,589 | 20,745  | 984      | 19,761 | 20,745          | 22,677       | 2,106                              | 22.51 |
| 2003 | 5,681      | 1,719 | 7,400   | 12,264 | 1,397 | 21,061  | 1,027    | 20,034 | 21,061          | 21,891       | 1,091                              | 27.56 |

Sources: Energy Information Administration and American Petroleum Institute

Notes: Reserves estimated as of December 31 each year. Imports to Strategic Petroleum Reserve are excluded.

# Natural Gas Summary

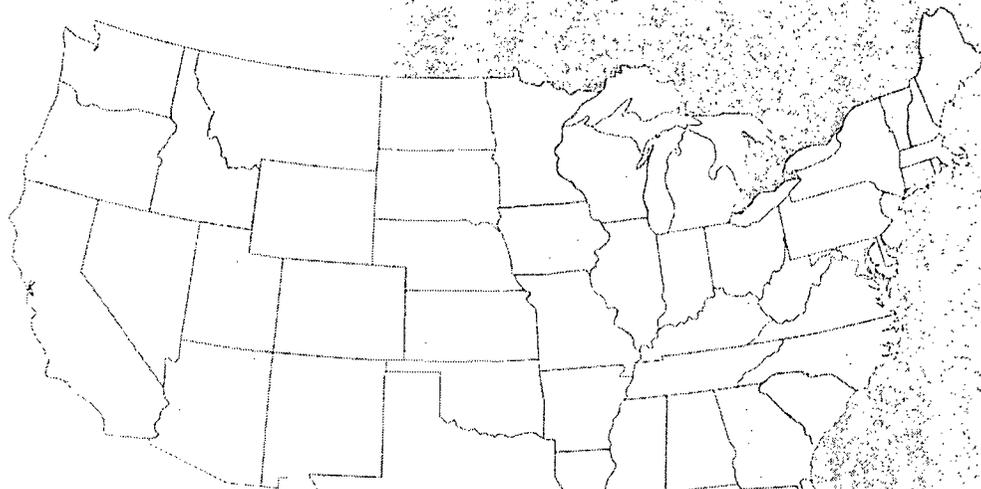
| Year | Production |        | Extraction<br>Loss | Imports<br>(Bcf) | Supply |        | Exports | Consumption | Gas Reserves    |              | Price<br>Gas Wellhead<br>(\$/Mcf) |
|------|------------|--------|--------------------|------------------|--------|--------|---------|-------------|-----------------|--------------|-----------------------------------|
|      | Marketed   | Dry    |                    |                  | Other  | Total  |         |             | Proved Reserves | New Reserves |                                   |
| 1957 | 10,680     | 10,246 | 434                | 38               | 478    | 10,766 | 42      | 9,846       | 246,569         | 20,297       | .11                               |
| 1958 | 11,030     | 10,572 | 458                | 136              | 582    | 11,329 | 39      | 10,303      | 254,142         | 19,058       | .12                               |
| 1959 | 12,046     | 11,548 | 498                | 134              | 650    | 12,350 | 18      | 11,321      | 262,597         | 20,895       | .13                               |
| 1960 | 12,771     | 12,228 | 543                | 156              | 701    | 13,096 | 11      | 11,967      | 263,759         | 14,253       | .14                               |
| 1961 | 13,254     | 12,662 | 592                | 219              | 686    | 13,578 | 11      | 12,489      | 267,728         | 17,421       | .15                               |
| 1962 | 13,877     | 13,253 | 624                | 402              | 838    | 14,509 | 16      | 13,267      | 273,766         | 19,750       | .16                               |
| 1963 | 14,747     | 14,077 | 670                | 406              | 899    | 15,399 | 17      | 13,970      | 276,151         | 18,418       | .16                               |
| 1964 | 15,547     | 14,824 | 723                | 443              | 866    | 16,153 | 20      | 14,814      | 281,251         | 20,447       | .15                               |
| 1965 | 16,040     | 15,287 | 753                | 456              | 934    | 16,703 | 26      | 15,280      | 286,469         | 21,470       | .16                               |
| 1966 | 17,207     | 16,468 | 739                | 480              | 1,116  | 18,089 | 25      | 16,452      | 289,333         | 20,355       | .16                               |
| 1967 | 18,171     | 17,386 | 785                | 564              | 1,052  | 19,084 | 82      | 17,388      | 292,908         | 21,956       | .16                               |
| 1968 | 19,322     | 18,494 | 828                | 652              | 1,236  | 20,476 | 94      | 18,632      | 287,350         | 13,816       | .16                               |
| 1969 | 20,698     | 19,831 | 867                | 727              | 1,329  | 21,938 | 51      | 20,056      | 275,109         | 8,482        | .17                               |
| 1970 | 21,921     | 21,015 | 906                | 821              | 1,388  | 23,294 | 70      | 21,139      | 290,746         | 37,598       | .17                               |
| 1971 | 22,493     | 21,610 | 883                | 935              | 1,427  | 24,052 | 80      | 21,793      | 278,806         | 10,136       | .18                               |
| 1972 | 22,532     | 21,624 | 908                | 1,019            | 1,679  | 24,400 | 78      | 22,101      | 266,085         | 9,791        | .19                               |
| 1973 | 22,648     | 21,731 | 917                | 1,033            | 1,456  | 24,297 | 77      | 22,049      | 249,950         | 6,471        | .22                               |
| 1974 | 21,601     | 20,713 | 887                | 959              | 1,624  | 23,373 | 77      | 21,223      | 237,132         | 8,501        | .30                               |
| 1975 | 20,109     | 19,236 | 872                | 953              | 1,687  | 21,949 | 73      | 19,538      | 228,200         | 10,786       | .45                               |
| 1976 | 19,952     | 19,098 | 854                | 964              | 1,640  | 21,767 | 65      | 19,946      | 216,026         | 7,368        | .58                               |
| 1977 | 20,025     | 19,163 | 863                | 1,011            | 1,654  | 21,884 | 56      | 19,521      | 207,413         | 12,978       | .79                               |
| 1978 | 19,974     | 19,122 | 852                | 966              | 1,817  | 21,958 | 53      | 19,627      | 208,033         | 19,425       | .91                               |
| 1979 | 20,471     | 19,663 | 808                | 1,253            | 1,620  | 22,592 | 56      | 20,241      | 200,997         | 12,221       | 1.18                              |
| 1980 | 20,180     | 19,403 | 777                | 985              | 1,385  | 21,822 | 49      | 19,877      | 199,021         | 16,723       | 1.59                              |
| 1981 | 19,956     | 19,181 | 775                | 904              | 1,499  | 21,643 | 59      | 19,404      | 201,730         | 21,446       | 1.98                              |
| 1982 | 18,582     | 17,820 | 762                | 933              | 1,647  | 20,452 | 52      | 18,001      | 201,512         | 17,288       | 2.46                              |
| 1983 | 16,884     | 16,094 | 790                | 918              | 1,523  | 18,590 | 55      | 16,835      | 200,247         | 14,523       | 2.59                              |
| 1984 | 18,304     | 17,466 | 838                | 843              | 1,894  | 20,258 | 55      | 17,951      | 197,463         | 14,409       | 2.66                              |
| 1985 | 17,270     | 16,454 | 816                | 950              | 2,005  | 19,464 | 55      | 17,281      | 193,369         | 11,891       | 2.51                              |
| 1986 | 16,859     | 16,059 | 800                | 750              | 1,364  | 18,234 | 61      | 16,221      | 191,586         | 13,827       | 1.94                              |
| 1987 | 17,433     | 16,621 | 812                | 993              | 1,484  | 19,152 | 54      | 17,211      | 187,211         | 11,739       | 1.67                              |
| 1988 | 17,918     | 17,103 | 816                | 1,294            | 1,807  | 20,278 | 74      | 18,030      | 168,024         | -2,517       | 1.69                              |
| 1989 | 18,095     | 17,311 | 785                | 1,382            | 2,917  | 21,717 | 107     | 19,119      | 167,116         | 16,075       | 1.69                              |
| 1990 | 18,594     | 17,810 | 784                | 1,532            | 2,265  | 21,693 | 86      | 19,174      | 169,346         | 19,463       | 1.71                              |
| 1991 | 18,532     | 17,698 | 835                | 1,773            | 2,699  | 22,299 | 129     | 19,562      | 167,062         | 14,918       | 1.64                              |
| 1992 | 18,712     | 17,840 | 872                | 2,138            | 2,805  | 22,999 | 216     | 20,228      | 165,015         | 15,376       | 1.74                              |
| 1993 | 18,982     | 18,095 | 886                | 2,350            | 3,105  | 23,690 | 140     | 20,790      | 162,415         | 15,189       | 2.04                              |
| 1994 | 19,710     | 18,821 | 889                | 2,624            | 2,598  | 24,205 | 162     | 21,247      | 163,837         | 19,744       | 1.85                              |
| 1995 | 19,506     | 18,599 | 908                | 2,841            | 3,333  | 24,927 | 154     | 22,207      | 165,146         | 19,275       | 1.55                              |
| 1996 | 19,751     | 18,854 | 958                | 2,937            | 3,725  | 25,669 | 153     | 22,610      | 166,474         | 21,456       | 2.17                              |
| 1997 | 19,866     | 18,902 | 964                | 2,994            | 3,641  | 25,694 | 157     | 22,737      | 167,223         | 19,960       | 2.32                              |
| 1998 | 19,961     | 19,024 | 938                | 3,152            | 2,975  | 25,310 | 159     | 22,246      | 164,041         | 15,538       | 1.96                              |
| 1999 | 19,805     | 18,832 | 973                | 3,585            | 2,586  | 25,166 | 163     | 22,405      | 167,406         | 22,293       | 2.19                              |
| 2000 | 20,198     | 19,182 | 1,016              | 3,782            | 3,053  | 26,261 | 244     | 23,333      | 177,427         | 29,240       | 3.68                              |
| 2001 | 20,570     | 19,616 | 954                | 3,977            | 2,110  | 26,076 | 373     | 22,239      | 183,460         | 25,812       | 4.00                              |
| 2002 | 19,885     | 18,928 | 957                | 4,015            | 2,734  | 26,193 | 516     | 23,007      | 186,946         | 22,839       | 2.95                              |
| 2003 | 19,912     | 19,036 | 876                | 3,996            | 2,635  | 26,359 | 692     | 22,375      | 189,044         | 21,523       | 4.88                              |

Sources: Reserves from American Gas Association and Energy Information Administration. All other data from Energy Information Administration.

# Drilling Summary

| Year | Seismic Crews |        | Rotary Rigs           |                      | Exploratory Wells |              | Total Well Completions |                  |                |       | Footage<br>(Total Drilled<br>in mill. ft.) |
|------|---------------|--------|-----------------------|----------------------|-------------------|--------------|------------------------|------------------|----------------|-------|--|
|      | Working       | Active | New-Field<br>Wildcats | Total<br>Exploratory | Oil<br>Wells      | Gas<br>Wells | Dry<br>Holes           | Service<br>Wells | Total<br>Wells |       |  |
| 1957 | 6,283         | 2,429  | 8,014                 | 14,714               | 28,012            | 4,620        | 20,976                 | 230              | 53,838         | 223.1 |  |
| 1958 | 5,064         | 1,923  | 6,950                 | 13,199               | 24,578            | 4,803        | 19,043                 | 1,615            | 50,039         | 198.2 |  |
| 1959 | 5,097         | 2,074  | 7,031                 | 13,191               | 25,800            | 5,029        | 19,265                 | 1,670            | 51,764         | 209.2 |  |
| 1960 | 4,625         | 1,750  | 7,320                 | 11,704               | 21,186            | 5,258        | 17,574                 | 2,733            | 46,751         | 190.7 |  |
| 1961 | 4,557         | 1,760  | 6,909                 | 10,992               | 21,101            | 5,664        | 17,106                 | 3,091            | 46,962         | 192.1 |  |
| 1962 | 3,915         | 1,637  | 6,794                 | 10,797               | 21,249            | 5,848        | 16,682                 | 2,400            | 46,179         | 198.6 |  |
| 1963 | 3,966         | 1,500  | 6,570                 | 10,664               | 20,288            | 4,751        | 16,347                 | 2,267            | 43,653         | 184.4 |  |
| 1964 | 4,102         | 1,502  | 6,623                 | 10,747               | 20,620            | 4,855        | 17,488                 | 2,273            | 45,236         | 189.9 |  |
| 1965 | 4,247         | 1,387  | 6,175                 | 9,466                | 18,761            | 4,724        | 16,025                 | 1,913            | 41,423         | 181.5 |  |
| 1966 | 3,672         | 1,273  | 6,158                 | 10,313               | 16,447            | 4,167        | 15,770                 | 2,152            | 38,536         | 165.5 |  |
| 1967 | 3,337         | 1,134  | 5,260                 | 8,878                | 15,329            | 3,659        | 13,246                 | 1,584            | 33,818         | 144.7 |  |
| 1968 | 3,268         | 1,169  | 5,205                 | 8,879                | 14,331            | 3,456        | 12,812                 | 2,315            | 32,914         | 149.3 |  |
| 1969 | 3,156         | 1,194  | 5,956                 | 9,701                | 14,368            | 4,083        | 13,736                 | 1,866            | 34,053         | 161.0 |  |
| 1970 | 2,340         | 1,028  | 4,829                 | 7,436                | 13,043            | 4,031        | 11,099                 | 1,369            | 29,542         | 142.0 |  |
| 1971 | 2,655         | 976    | 4,636                 | 7,131                | 11,903            | 3,983        | 10,382                 | 1,414            | 27,682         | 130.7 |  |
| 1972 | 3,016         | 1,107  | 5,011                 | 7,551                | 11,437            | 5,484        | 11,013                 | 1,486            | 29,420         | 142.5 |  |
| 1973 | 2,999         | 1,195  | 5,096                 | 7,771                | 10,251            | 6,975        | 10,466                 | 970              | 28,662         | 141.9 |  |
| 1974 | 3,662         | 1,471  | 5,946                 | 8,969                | 13,644            | 7,168        | 12,205                 | 1,398            | 34,415         | 153.8 |  |
| 1975 | 3,416         | 1,660  | 6,234                 | 9,459                | 16,979            | 8,169        | 13,736                 | 1,920            | 40,804         | 184.9 |  |
| 1976 | 3,140         | 1,656  | 5,856                 | 9,317                | 17,697            | 9,438        | 13,805                 | 1,674            | 42,614         | 187.3 |  |
| 1977 | 3,063         | 2,001  | 6,162                 | 10,140               | 18,700            | 12,119       | 15,036                 | 1,453            | 47,308         | 215.7 |  |
| 1978 | 4,148         | 2,255  | 6,731                 | 11,030               | 19,065            | 14,405       | 16,591                 | 1,610            | 51,671         | 238.4 |  |
| 1979 | 4,400         | 2,176  | 6,423                 | 10,735               | 20,689            | 15,166       | 16,035                 | 1,472            | 53,362         | 243.7 |  |
| 1980 | 4,962         | 2,910  | 7,332                 | 12,870               | 32,120            | 17,132       | 20,234                 | 2,076            | 71,562         | 311.4 |  |
| 1981 | 5,877         | 3,970  | 9,151                 | 17,430               | 42,520            | 19,742       | 26,972                 | 2,366            | 91,600         | 406.5 |  |
| 1982 | 5,676         | 3,105  | 7,386                 | 15,882               | 39,252            | 18,810       | 25,827                 | 2,212            | 86,101         | 375.4 |  |
| 1983 | 4,944         | 2,229  | 6,057                 | 13,845               | 37,396            | 14,505       | 23,837                 | 2,047            | 77,785         | 316.7 |  |
| 1984 | 4,655         | 2,428  | 6,528                 | 15,138               | 44,472            | 14,962       | 25,549                 | 2,251            | 87,234         | 368.8 |  |
| 1985 | 3,494         | 1,969  | 5,630                 | 12,208               | 36,458            | 12,917       | 21,431                 | 1,736            | 75,542         | 316.8 |  |
| 1986 | 2,016         | 964    | 3,484                 | 7,156                | 18,598            | 8,055        | 12,362                 | 834              | 39,849         | 177.6 |  |
| 1987 | 1,561         | 936    | 3,515                 | 6,903                | 16,441            | 8,114        | 11,698                 | 890              | 37,143         | 163.8 |  |
| 1988 | 1,512         | 936    | 3,271                 | 6,350                | 13,508            | 8,446        | 10,284                 | 953              | 33,191         | 155.2 |  |
| 1989 | 1,392         | 869    | 2,644                 | 5,251                | 10,412            | 9,483        | 8,468                  | 672              | 29,035         | 135.0 |  |
| 1990 | 1,493         | 1,010  | 2,685                 | 5,074                | 12,104            | 10,242       | 8,359                  | 802              | 31,417         | 149.5 |  |
| 1991 | 1,251         | 862    | 2,195                 | 4,399                | 11,733            | 9,020        | 7,664                  | 1,070            | 29,487         | 141.4 |  |
| 1992 | 847           | 721    | 1,762                 | 3,525                | 8,821             | 7,854        | 6,394                  | 989              | 24,058         | 121.3 |  |
| 1993 | 952           | 755    | 1,683                 | 3,603                | 9,144             | 10,285       | 6,594                  | 716              | 25,724         | 138.5 |  |
| 1994 | 1,087         | 775    | 1,613                 | 3,787                | 7,704             | 10,044       | 5,568                  | 669              | 23,985         | 130.6 |  |
| 1995 | 1,253         | 723    | 1,605                 | 3,402                | 8,736             | 8,923        | 5,425                  | 885              | 23,969         | 124.5 |  |
| 1996 | 1,307         | 779    | 1,676                 | 3,342                | 9,937             | 10,118       | 5,698                  | 791              | 26,544         | 138.7 |  |
| 1997 | 1,336         | 943    | 1,757                 | 3,269                | 12,028            | 11,838       | 6,354                  | 1,017            | 31,237         | 165.4 |  |
| 1998 | 1,566         | 827    | 1,478                 | 2,694                | 8,389             | 12,233       | 5,202                  | 838              | 26,662         | 143.6 |  |
| 1999 | 1,125         | 625    | 1,244                 | 2,068                | 5,419             | 12,663       | 3,930                  | 478              | 22,490         | 110.0 |  |
| 2000 | 727           | 918    | 1,435                 | 2,487                | 8,860             | 17,283       | 4,721                  | 930              | 31,794         | 148.9 |  |
| 2001 | 717           | 1,156  | 1,576                 | 3,109                | 9,581             | 21,601       | 4,667                  | 786              | 36,635         | 184.0 |  |
| 2002 | 674           | 830    | 1,324                 | 2,288                | 7,222             | 16,801       | 3,771                  | 747              | 28,541         | 145.0 |  |
| 2003 | 481           | 1,032  | 1,415                 | 2,580                | 8,710             | 20,715       | 4,011                  | 815              | 34,251         | 178.5 |  |

Sources: Seismic crews from EIA & IHS Energy Group & World Oil. Rotary rigs from Baker-Hughes. All other data from American Petroleum Institute.  
Notes: Total well completions include exploratory and development wells.



**Background Information**

**States**

|                                |    |
|--------------------------------|----|
| Number of states               | 50 |
| With oil and/or gas production | 33 |

**First year of production**

|                            |      |
|----------------------------|------|
| Crude oil (Pennsylvania)   | 1859 |
| Natural gas (Pennsylvania) | 1881 |

**Year and amount of peak production**

|                                    |      |
|------------------------------------|------|
| Crude oil — 3,517,450 thous. bbls. | 1970 |
| Natural gas — 22,647,549 MMcf      | 1973 |

**Deepest producing well (ft.)**

|                     |        |
|---------------------|--------|
| Crude oil (GOM)     | 23,257 |
| Natural gas (Texas) | 26,536 |

**Year and depth of deepest well drilled (ft.)**

|            |        |
|------------|--------|
| 2003 (GOM) | 31,824 |
|------------|--------|

**Cumulative number of total wells drilled**

as of 12/31/03 (excluding service wells)

|              |                  |             |
|--------------|------------------|-------------|
| Oil wells    | 1,888,338        | 54%         |
| Gas wells    | 560,960          | 16%         |
| Dry holes    | 1,031,228        | 30%         |
| <b>Total</b> | <b>3,480,526</b> | <b>100%</b> |

**Cumulative crude oil wellhead value** \$1,733,378,297

**Cumulative production & new reserves**

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total   | Natural Gas (Bcf) |
|------------|-----------|------------------|---------|-------------------|
| Reserves   | 204,247   | 45,631           | 249,878 | 1,174,221         |
| Production | 183,537   | 35,248           | 218,785 | 1,009,399         |

States with oil and/or gas production

**Value of Oil and Gas**

**Average wellhead price**

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$27.56 |
| Natural gas (\$/Mcf) | \$4.88  |

**Wellhead value of production**

(2003, in thous. \$)

|              |                      |
|--------------|----------------------|
| Crude oil    | \$56,848,040         |
| Natural gas  | \$97,169,594         |
| <b>Total</b> | <b>\$154,017,634</b> |

**Average natural gas price**

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$9.52 |
| Commercial consumers  | \$8.29 |
| Industrial consumers  | \$5.81 |
| Electric utilities    | \$5.54 |
| City Gate             | \$5.85 |

**Severance taxes paid**

(2003, in thous. \$)

\$5,372,380

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory  | Development   | Total         |
|--------------|--------------|---------------|---------------|
| Oil          | 338          | 7,703         | 8,041         |
| Gas          | 761          | 18,169        | 18,930        |
| Dry          | 1,230        | 2,259         | 3,489         |
| Service      | --           | 815           | 815           |
| <b>Total</b> | <b>2,329</b> | <b>28,946</b> | <b>31,275</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory     | Development      | Total            |
|--------------|-----------------|------------------|------------------|
| Oil          | 2,463.7         | 34,906.2         | 37,369.9         |
| Gas          | 5,773.7         | 104,438.8        | 110,212.5        |
| Dry          | 8,579.2         | 12,526.5         | 21,105.7         |
| Service      | --              | 2,572.1          | 2,572.1          |
| <b>Total</b> | <b>16,816.6</b> | <b>154,443.6</b> | <b>171,260.2</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 1,415  
10,353.5

### Average rotary rigs active

1,032

### World-wide rank

|                        | Crude Oil | Natural Gas |
|------------------------|-----------|-------------|
| Wells drilled          | 1st       | 1st         |
| Production (inc. NGLs) | 3rd       | 2nd         |
| Reserves (2002)        | 11th      | 6th         |

### Number of producing wells

(12/31/03)

|                 |                |
|-----------------|----------------|
| Crude oil       | 520,318        |
| Flowing         | 19,628         |
| Artificial lift | 500,690        |
| Natural gas     | 391,336        |
| <b>Total</b>    | <b>886,316</b> |

### Average production\*

|              | thous. bbls.     | thous. b/d   |
|--------------|------------------|--------------|
| Crude oil    | 2,062,701        | 5,651        |
| NGL (est.)   | 671,322          | 1,839        |
| <b>Total</b> | <b>2,734,023</b> | <b>7,490</b> |

### Natural gas marketed production

(MMcf)

19,911,802

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 3,964  |
| Natural gas (Mcf) | 50,882 |

### Average number of employees

|                                 |                  |
|---------------------------------|------------------|
| Oil and natural gas extraction  | 306,000          |
| Refining                        | 71,400           |
| Transportation                  | 151,500          |
| Wholesale                       | 152,300          |
| Retail                          | 880,100          |
| <b>Total petroleum industry</b> | <b>1,561,400</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL   | Total  |
|-------------------|-----------|-------|--------|
| New reserves      | 4,516     | 885   | 5,401  |
| Production        | 1,875     | 884   | 2,759  |
| Net annual change | 231       | 1     | 232    |
| Proved reserves   | 22,677    | 7,994 | 30,671 |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 2,705                   | 21,359             | 22,839     |
| Production        | 2,988                   | 17,260             | 19,353     |
| Net annual change | -283                    | 4,099              | 3,486      |
| Proved reserves   | 29,541                  | 166,020            | 186,946    |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 152.94           | 700,001            | 4,065,606                 |
| Gas          | 159.67           | 895,222            | 13,761,350                |
| Dry          | 250.60           | 1,455,327          | 4,670,145                 |
| <b>Total</b> | <b>171.20</b>    | <b>922,428</b>     | <b>22,497,101</b>         |

### Stripper wells

|                               |             |
|-------------------------------|-------------|
| Producing stripper wells      | 402,072     |
| Stripper well abandonments    | 13,635      |
| Crude oil production in bbls. | 323,776,606 |
| Crude oil production b/d      | 887,059     |
| Percentage of oil production  | 16%         |

### Stripper oil reserves

as of 1/1/03(thous. bbls.)

|              |                  |
|--------------|------------------|
| Primary      | 1,085,800        |
| Secondary    | 1,079,875        |
| <b>Total</b> | <b>2,165,675</b> |

### Natural gas stripper wells

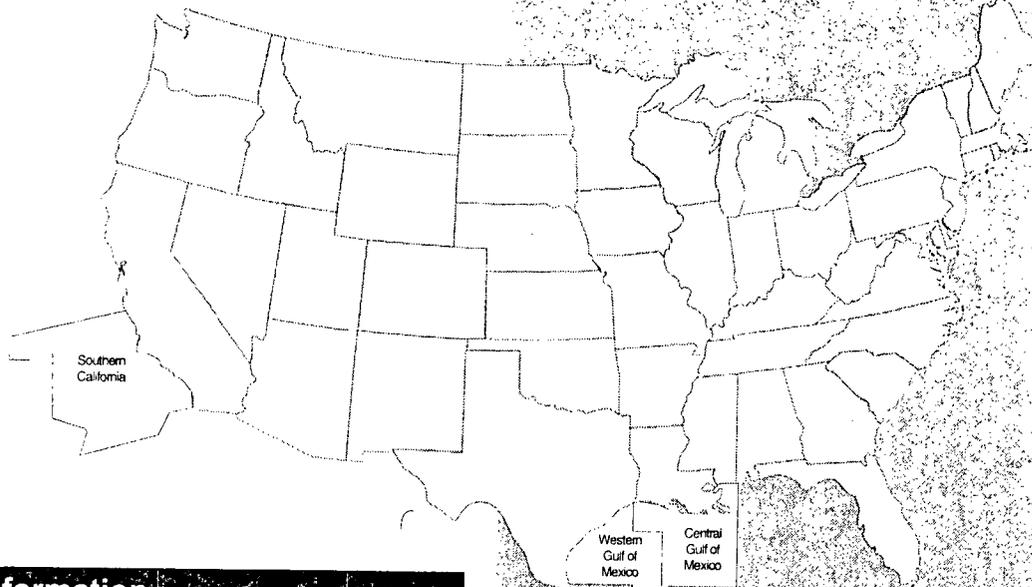
as of 1/1/03

|                               |               |
|-------------------------------|---------------|
| Producing stripper wells      | 245,961       |
| Stripper well abandonments    | 3,870         |
| Natural gas production in Mcf | 1,418,273,778 |

### Federal Onshore Mineral Lease Royalties

|                        |                        |
|------------------------|------------------------|
| Oil                    | \$1,373,087,660        |
| Gas                    | \$768,599,243          |
| <b>Total Royalties</b> | <b>\$5,353,954,610</b> |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799



**Background Information**

**Planning Areas**

|                                |    |
|--------------------------------|----|
| Number of areas                | 25 |
| With oil and/or gas production | 3  |

**First year of production**

1946

**Year and amount of peak production**

|                                  |      |
|----------------------------------|------|
| Crude oil — 591,589 thous. bbls. | 2001 |
| Natural gas — 5,248,041 MMcf     | 1997 |

**Deepest producing well (ft.)**

|             |        |
|-------------|--------|
| Water depth | 7,570  |
| Well depth  | 24,709 |

**Year and depth of deepest well drilled (ft.)**

|                    |        |
|--------------------|--------|
| Water depth (2001) | 10,011 |
| Well depth (2005)  | 30,505 |

**Cumulative number of total wells drilled**

as of 12/31/03 (excluding service wells)

|              |               |             |
|--------------|---------------|-------------|
| Oil wells    | 9,526         | 26%         |
| Gas wells    | 8,655         | 24%         |
| Dry holes    | 14,546        | 40%         |
| <b>Total</b> | <b>35,727</b> | <b>100%</b> |

**Cumulative crude oil wellhead value**

as of 12/31/03 (thous. \$)

\$213,377,552

**Cumulative production & new reserves**

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total  | Natural Gas (Bcf) |
|------------|-----------|------------------|--------|-------------------|
| Reserves   | 20,350    | 4,469            | 24,819 | 100,430           |
| Production | 13,798    | 2,344            | 16,142 | 56,397            |

□ States and Federal Offshore with oil and/or gas production

**Value of Oil and Gas**

**Average wellhead price**

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$28.48 |
| Natural gas (\$/Mcf) | NA      |

**Wellhead value of production**

(2003, in thous. \$)

|              |              |
|--------------|--------------|
| Crude oil    | \$16,755,752 |
| Natural gas  | NA           |
| <b>Total</b> | <b>NA</b>    |

**Federal Revenues**

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Bonuses      | \$1,147,014        |
| Rents        | \$245,964          |
| Royalties    | \$4,540,922        |
| <b>Total</b> | <b>\$5,933,900</b> |

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | 1           | 129         | 130        |
| Gas          | 38          | 319         | 357        |
| Dry          | 125         | 73          | 198        |
| Service      | --          | 3           | 3          |
| <b>Total</b> | <b>164</b>  | <b>521</b>  | <b>688</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory    | Development    | Total          |
|--------------|----------------|----------------|----------------|
| Oil          | 23.4           | 1,417.9        | 1,441.3        |
| Gas          | 402.9          | 3,370.0        | 3,772.9        |
| Dry          | 1,805.5        | 913.9          | 2,719.4        |
| Service      | --             | 61.0           | 61.0           |
| <b>Total</b> | <b>2,231.8</b> | <b>5,762.8</b> | <b>7,994.6</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 164  
2,231.8

### Average rotary rigs active

109

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 12th      | 11th        |
| Production      | 1st       | 2nd         |
| Reserves (2002) | 2nd       | 2nd         |

### Number of producing wells

(12/31/03)

|                 |              |
|-----------------|--------------|
| Crude oil       | 4,078        |
| Flowing         | 1,704        |
| Artificial lift | 2,374        |
| Natural gas     | 5,457        |
| <b>Total</b>    | <b>9,535</b> |

### Average production

|              | thous. bbls.   | thous. b/d   |
|--------------|----------------|--------------|
| Crude oil    | 588,334        | 1,612        |
| NGL (est.)   | 148,000        | 405          |
| <b>Total</b> | <b>736,334</b> | <b>2,017</b> |

### Natural gas marketed production

(MMcf)

4,505,443

### Average output per producing well

|                   |         |
|-------------------|---------|
| Crude oil (bbls.) | 144,270 |
| Natural gas (Mcf) | 825,626 |

### Number of operators

|                       |     |
|-----------------------|-----|
| Producing oil         | 120 |
| Producing natural gas | 126 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 657       | 181 | 838   |
| Production        | 483       | 184 | 667   |
| Net annual change | 174       | -3  | 171   |
| Proved reserves   | 5,009     | 973 | 4,036 |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 468                     | 2,345              | 2,637      |
| Production        | 1,027                   | 3,563              | 4,469      |
| Net annual change | -559                    | -1,218             | -1,832     |
| Proved reserves   | 8,090                   | 17,772             | 25,204     |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 984.04           | 11,882,158         | 903,055                   |
| Gas          | 973.80           | 11,647,575         | 2,329,515                 |
| Dry          | 1,121.63         | 14,148,101         | 2,235,400                 |
| <b>Total</b> | <b>1,031.13</b>  | <b>12,598,984</b>  | <b>5,467,959</b>          |

## 2003 Lease Statistics

### Prelease activities

G&G permits approved 119

### Postlease activities

Platform installations 122  
Platform removals 166  
Platforms in place 4,024

### Lease characteristics

Existing leases 6,822  
    <200 meters of water 2,894  
    200-400 meters of water 198  
    400-900 meters of water 489  
    >900 meters of water 3,241  
Acres under lease (mil.) 36.2  
Producing leases 1,656

### Oil & natural gas fields

Producing 741  
Non-producing 232  
Total 973

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
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## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 67 |
| With oil and/or gas production | 23 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1944 |
| Natural gas | 1904 |

### Year and amount of peak production

|                                 |      |
|---------------------------------|------|
| Crude oil — 22,153 thous. bbls. | 1980 |
| Natural gas — 378,877 MMcf      | 1996 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 18,750 |
| Natural gas | 21,805 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1995 | 24,256 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |               |             |
|--------------|---------------|-------------|
| Oil wells    | 1,202         | 11%         |
| Gas wells    | 5,370         | 49%         |
| Dry holes    | 4,332         | 40%         |
| <b>Total</b> | <b>10,904</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$) \$10,055,859

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 487       | 388              | 875   | 7,221             |
| Production | 467       | 356              | 823   | 5,973             |



□ Counties with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$28.97 |
| Natural gas (\$/Mcf) | \$5.93  |

### Wellhead value of production

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Crude oil    | \$228,689          |
| Natural gas  | \$2,052,640        |
| <b>Total</b> | <b>\$2,281,329</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |         |
|-----------------------|---------|
| Residential consumers | \$11.81 |
| Commercial consumers  | \$10.07 |
| Industrial consumers  | \$6.64  |
| Electric utilities    | \$5.80  |
| City Gate             | \$6.06  |

### Severance taxes paid

(2003, in thous. \$)

\$92,695

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | 2           | 5           | 7          |
| Gas          | 8           | 286         | 294        |
| Dry          | 14          | 18          | 32         |
| Service      | --          | --          | --         |
| <b>Total</b> | <b>24</b>   | <b>309</b>  | <b>333</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory  | Development  | Total        |
|--------------|--------------|--------------|--------------|
| Oil          | 17.2         | 58.4         | 75.6         |
| Gas          | 24.1         | 657.1        | 681.2        |
| Dry          | 93.6         | 78.8         | 172.4        |
| Service      | --           | --           | --           |
| <b>Total</b> | <b>135.0</b> | <b>794.3</b> | <b>929.2</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 19  
117.5

### Average rotary rigs active

3

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 19th      | 13th        |
| Production      | 16th      | 10th        |
| Reserves (2002) | 19th      | 11th        |

### Number of producing wells

(12/31/03)

|                 |              |
|-----------------|--------------|
| Crude oil       | 810          |
| Flowing         | 51           |
| Artificial lift | 759          |
| Natural gas     | 4,101        |
| <b>Total</b>    | <b>4,911</b> |

### Average production

|              | thous. bbls.  | thous. b/d |
|--------------|---------------|------------|
| Crude oil    | 7,894         | 22         |
| NGL (est.)   | 5,117         | 14         |
| <b>Total</b> | <b>13,011</b> | <b>36</b>  |

### Natural gas marketed production

(MMcf)

346,145

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 9,746  |
| Natural gas (Mcf) | 84,405 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 1,546  |
| Refining                       | 1,031  |
| Transportation                 | 2,450  |
| Wholesale                      | 2,973  |
| Retail                         | 19,432 |
| Total petroleum industry       | 27,432 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 14        | 0   | 14    |
| Production        | 5         | 7   | 12    |
| Net annual change | 9         | -7  | 2     |
| Proved reserves   | 51        | 57  | 108   |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 9                       | 325                | 334        |
| Production        | 4                       | 365                | 365        |
| Net annual change | 5                       | -40                | -31        |
| Proved reserves   | 31                      | 3,891              | 3,884      |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 182.19           | 1,799,600          | 8,998                     |
| Gas          | 319.59           | 746,928            | 154,614                   |
| Dry          | 445.32           | 2,525,625          | 60,615                    |
| <b>Total</b> | <b>335.02</b>    | <b>950,114</b>     | <b>224,227</b>            |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 639       |
| Stripper well abandonments    | 3         |
| Crude oil production in bbls. | 1,141,083 |
| Crude oil production b/d      | 3,126     |
| Percentage of oil production  | 13%       |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |              |
|--------------|--------------|
| Primary      | 1,021        |
| Secondary    | 1,107        |
| <b>Total</b> | <b>2,128</b> |

### Natural gas stripper wells

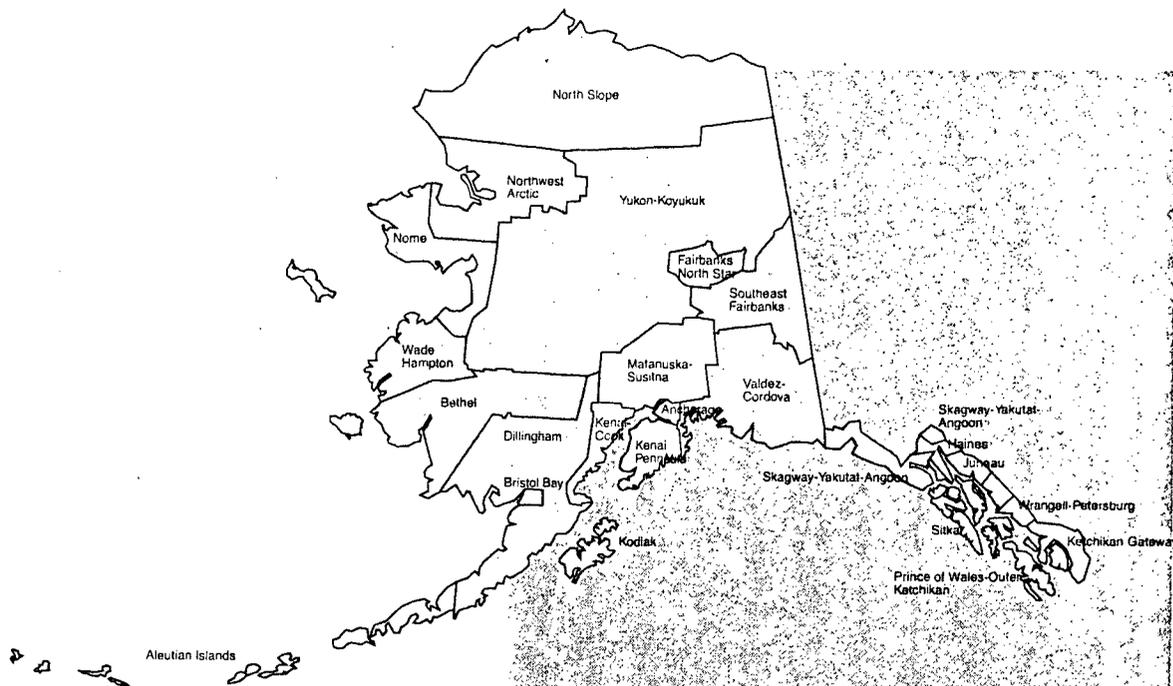
as of 1/1/03

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 1,696      |
| Stripper well abandonments    | 16         |
| Natural gas production in Mcf | 18,139,406 |

### Federal Onshore Mineral Lease Royalties

|                        |                     |
|------------------------|---------------------|
| Oil                    | \$649,209           |
| Gas                    | \$34,198,476        |
| <b>Total Royalties</b> | <b>\$34,512,763</b> |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799



## Background Information

### Areas

|                                |    |
|--------------------------------|----|
| Number of areas                | 15 |
| With oil and/or gas production | 5  |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1905 |
| Natural gas | 1945 |

### Year and amount of peak production

|                                  |      |
|----------------------------------|------|
| Crude oil — 738,143 thous. bbls. | 1988 |
| Natural gas — 555,402 MMcf       | 1994 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 21,980 |
| Natural gas | 17,318 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1998 | 23,855 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |              |             |
|--------------|--------------|-------------|
| Oil wells    | 3,590        | 79%         |
| Gas wells    | 210          | 5%          |
| Dry holes    | 724          | 16%         |
| <b>Total</b> | <b>4,524</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$) \$200,315,754

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total  | Natural Gas (Bcf) |
|------------|-----------|------------------|--------|-------------------|
| Reserves   | 19,496    | 510              | 20,006 | 19,220            |
| Production | 14,766    | 319              | 15,085 | 10,378            |

□ Areas with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$23.93 |
| Natural gas (\$/Mcf) | \$2.41  |

### Wellhead value of production

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Crude oil    | \$8,508,599        |
| Natural gas  | \$1,180,314        |
| <b>Total</b> | <b>\$9,688,913</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$4.39 |
| Commercial consumers  | \$3.58 |
| Industrial consumers  | \$1.75 |
| Electric utilities    | \$2.33 |
| City Gate             | \$2.33 |

### Severance taxes paid

(2003, in thous. \$)

\$1,093,356

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | 1           | 163         | 164        |
| Gas          | 5           | 16          | 21         |
| Dry          | 8           | 8           | 16         |
| Service      | --          | 30          | 30         |
| <b>Total</b> | <b>14</b>   | <b>217</b>  | <b>231</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory  | Development    | Total          |
|--------------|--------------|----------------|----------------|
| Oil          | 2.2          | 1,131.9        | 1,134.1        |
| Gas          | 55.0         | 86.3           | 141.3          |
| Dry          | 87.9         | 84.5           | 172.4          |
| Service      | --           | 318.2          | 318.2          |
| <b>Total</b> | <b>145.1</b> | <b>1,620.9</b> | <b>1,766.0</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 10

### Average rotary rigs active

10

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 9th       | 21st        |
| Production      | 3rd       | 8th         |
| Reserves (2002) | 3rd       | 8th         |

### Number of producing wells

(12/31/02)

|                 |              |
|-----------------|--------------|
| Crude oil       | 1,634        |
| Flowing         | 541          |
| Artificial lift | 1,093        |
| Natural gas     | 124          |
| <b>Total</b>    | <b>1,758</b> |

### Average production

|              | thous. bbls.   | thous. b/d |
|--------------|----------------|------------|
| Crude oil    | 355,562        | 974        |
| NGL (est.)   | 1,479          | 4          |
| <b>Total</b> | <b>357,041</b> | <b>978</b> |

### Natural gas marketed production

(MMcf)

489,757

### Average output per producing well

|                   |           |
|-------------------|-----------|
| Crude oil (bbls.) | 217,602   |
| Natural gas (Mcf) | 3,949,653 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 8,329  |
| Refining                       | 377    |
| Transportation                 | 212    |
| Wholesale                      | 1,178  |
| Retail                         | 1,783  |
| Total petroleum industry       | 11,879 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 188       | 20  | 208   |
| Production        | 361       | 20  | 381   |
| Net annual change | -173      | 0   | -173  |
| Proved reserves   | 4,678     | 405 | 5,083 |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 46                      | 48                 | 128        |
| Production        | 262                     | 200                | 460        |
| Net annual change | -216                    | -152               | -332       |
| Proved reserves   | 6,376                   | 2,157              | 8,468      |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 710.05           | 7,489,429          | 419,408                   |
| Gas          | 1,173.10         | 9,447,375          | 75,579                    |
| Dry          | 1,044.51         | 10,377,133         | 155,657                   |
| <b>Total</b> | <b>809.13</b>    | <b>8,236,000</b>   | <b>650,644</b>            |

### Stripper wells

|                               |   |
|-------------------------------|---|
| Producing stripper wells      | 0 |
| Stripper well abandonments    | 0 |
| Crude oil production in bbls. | 0 |
| Crude oil production b/d      | 0 |
| Percentage of oil production  | 0 |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|           |   |
|-----------|---|
| Primary   | 0 |
| Secondary | 0 |
| Total     | 0 |

### Natural gas stripper wells

as of 1/1/03

|                               |   |
|-------------------------------|---|
| Producing stripper wells      | 0 |
| Stripper well abandonments    | 0 |
| Natural gas production in Mcf | 0 |

### Federal Onshore Mineral Lease Royalties

|                 |              |
|-----------------|--------------|
| Oil             | \$6,001,893  |
| Gas             | \$8,102,847  |
| Total Royalties | \$15,162,727 |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799

## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 15 |
| With oil and/or gas production | 1  |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1958 |
| Natural gas | 1955 |

### Year and amount of peak production

|                                |      |
|--------------------------------|------|
| Crude oil — 3,370 thous. bbls. | 1968 |
| Natural gas — 3,161 MMcf       | 1966 |

### Deepest producing well (ft.)

|             |       |
|-------------|-------|
| Crude oil   | 6,793 |
| Natural gas | 5,992 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1980 | 18,013 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |            |             |
|--------------|------------|-------------|
| Oil wells    | 49         | 10%         |
| Gas wells    | 40         | 8%          |
| Dry holes    | 412        | 82%         |
| <b>Total</b> | <b>501</b> | <b>100%</b> |

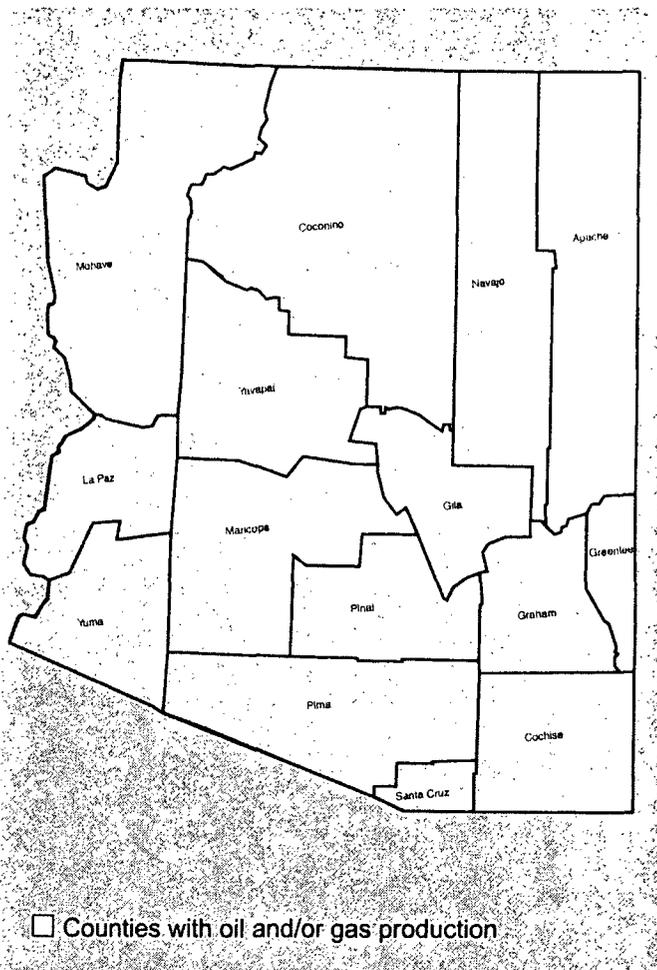
### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$) \$70,797,357

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude<br>Oil | NGL<br>(mill. bbls) | Total | Natural<br>Gas (Bcf) |
|------------|--------------|---------------------|-------|----------------------|
| Reserves   | NA           | 0                   | NA    | NA                   |
| Production | NA           | 0                   | NA    | NA                   |



## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$26.63 |
| Natural gas (\$/Mcf) | \$4.33  |

### Wellhead value of production

(2003, in thous. \$)

|              |                |
|--------------|----------------|
| Crude oil    | \$1,252        |
| Natural gas  | \$1,918        |
| <b>Total</b> | <b>\$3,170</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |         |
|-----------------------|---------|
| Residential consumers | \$11.31 |
| Commercial consumers  | \$7.84  |
| Industrial consumers  | \$6.54  |
| Electric utilities    | \$5.14  |
| City Gate             | \$4.87  |

### Severance taxes paid

(2002/2003FY, in thous. \$)

\$8,377

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total |
|--------------|-------------|-------------|-------|
| Oil          | --          | --          | --    |
| Gas          | --          | --          | --    |
| Dry          | --          | --          | --    |
| Service      | --          | --          | --    |
| <b>Total</b> | --          | --          | --    |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development | Total |
|--------------|-------------|-------------|-------|
| Oil          | --          | --          | --    |
| Gas          | --          | --          | --    |
| Dry          | --          | --          | --    |
| Service      | --          | --          | --    |
| <b>Total</b> | --          | --          | --    |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 0

### Average rotary rigs active

0

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | --        | --          |
| Production      | 31st      | 30th        |
| Reserves (2002) | NA        | NA          |

### Number of producing wells

(12/31/03)

|                 |           |
|-----------------|-----------|
| Crude oil       | 17        |
| Flowing         | 0         |
| Artificial lift | 17        |
| Natural gas     | 6         |
| <b>Total</b>    | <b>23</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 47           | --         |
| NGL (est.)   | --           | --         |
| <b>Total</b> | <b>47</b>    |            |

### Natural gas marketed production

(MMcf)

443

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 2,765  |
| Natural gas (Mcf) | 73,833 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 200    |
| Refining                       | ND     |
| Transportation                 | ND     |
| Wholesale                      | 1,182  |
| Retail                         | 16,474 |
| Total petroleum industry       | 17,856 |

Compiled by IPAA July 2005

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | NA        | NA  | NA    |
| Production        | NA        | NA  | NA    |
| Net annual change | NA        | NA  | NA    |
| Proved reserves   | NA        | NA  | NA    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | NA                      | NA                 | NA         |
| Production        | NA                      | NA                 | NA         |
| Net annual change | NA                      | NA                 | NA         |
| Proved reserves   | NA                      | NA                 | NA         |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | --               | --                 | --                        |
| Gas          | --               | --                 | --                        |
| Dry          | --               | --                 | --                        |
| <b>Total</b> | --               | --                 | --                        |

### Stripper wells

|                               |        |
|-------------------------------|--------|
| Producing stripper wells      | 17     |
| Stripper well abandonments    | 0      |
| Crude oil production in bbls. | 23,951 |
| Crude oil production b/d      | 66     |
| Percentage of oil production  | 38%    |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |            |
|--------------|------------|
| Primary      | 230        |
| Secondary    | 0          |
| <b>Total</b> | <b>230</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |       |
|-------------------------------|-------|
| Producing stripper wells      | 4     |
| Stripper well abandonments    | 0     |
| Natural gas production in Mcf | 3,387 |

### Federal Onshore Mineral Lease Royalties

|                        |                     |
|------------------------|---------------------|
| Oil                    | \$172,091           |
| Gas                    | \$29,658            |
| <b>Total Royalties</b> | <b>\$39,323,331</b> |

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Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799

## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 75 |
| With oil and/or gas production | 24 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1921 |
| Natural gas | 1889 |

### Year and amount of peak production

|                                 |      |
|---------------------------------|------|
| Crude oil — 77,398 thous. bbls. | 1925 |
| Natural gas — 224,446 MMcf      | 1996 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 11,804 |
| Natural gas | 11,804 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1992 | 20,661 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |               |             |
|--------------|---------------|-------------|
| Oil wells    | 18,160        | 48%         |
| Gas wells    | 5,646         | 15%         |
| Dry holes    | 14,120        | 37%         |
| <b>Total</b> | <b>37,926</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$) \$10,189,877

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 1,802     | 94               | 1,896 | 8,990             |
| Production | 1,738     | 89               | 1,827 | 7,226             |



□ Counties with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$26.57 |
| Natural gas (\$/Mcf) | \$5.17  |

### Wellhead value of production

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Crude oil    | \$191,995          |
| Natural gas  | \$876,827          |
| <b>Total</b> | <b>\$1,068,822</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |         |
|-----------------------|---------|
| Residential consumers | \$10.33 |
| Commercial consumers  | \$7.67  |
| Industrial consumers  | \$6.94  |
| Electric utilities    | \$4.37  |
| City Gate             | \$6.07  |

### Severance taxes paid

(2003, in thous. \$)

\$8,355

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | 0           | 13          | 13         |
| Gas          | 4           | 173         | 177        |
| Dry          | 8           | 27          | 35         |
| Service      | --          | --          | --         |
| <b>Total</b> | <b>12</b>   | <b>213</b>  | <b>225</b> |

### Total footage drilled

| (thous. ft.) | Exploratory | Development    | Total          |
|--------------|-------------|----------------|----------------|
| Oil          | --          | 81.0           | 81.0           |
| Gas          | 28.9        | 953.8          | 982.7          |
| Dry          | 68.6        | 141.8          | 210.4          |
| Service      | --          | --             | --             |
| <b>Total</b> | <b>97.5</b> | <b>1,176.6</b> | <b>1,274.1</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

|                      |      |
|----------------------|------|
|                      | 10   |
| Footage (thous. ft.) | 80.4 |

### Average rotary rigs active

2

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 18th      | 18th        |
| Production      | 17th      | 15th        |
| Reserves (2002) | 20th      | 18th        |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 6,727         |
| Flowing         | 53            |
| Artificial lift | 6,674         |
| Natural gas     | 5,134         |
| <b>Total</b>    | <b>11,861</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 7,226        | 20         |
| NGL (est.)   | 236          | 1          |
| <b>Total</b> | <b>7,462</b> | <b>21</b>  |

### Natural gas marketed production

(MMcf)

169,599

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 1,074  |
| Natural gas (Mcf) | 33,034 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 1,838  |
| Refining                       | 458    |
| Transportation                 | 1,645  |
| Wholesale                      | 1,590  |
| Retail                         | 13,109 |
| Total petroleum industry       | 18,640 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 13        | -1  | 12    |
| Production        | 7         | 0   | 7     |
| Net annual change | 6         | -1  | 5     |
| Proved reserves   | 49        | 4   | 53    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 13                      | 180                | 191        |
| Production        | 5                       | 153                | 157        |
| Net annual change | 8                       | 27                 | 34         |
| Proved reserves   | 38                      | 1,616              | 1,650      |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 130.93           | 972,167            | 5,833                     |
| Gas          | 88.82            | 481,027            | 53,394                    |
| Dry          | 56.41            | 319,579            | 12,144                    |
| <b>Total</b> | <b>82.90</b>     | <b>460,458</b>     | <b>71,371</b>             |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 3,362     |
| Stripper well abandonments    | 42        |
| Crude oil production in bbls. | 3,087,798 |
| Crude oil production b/d      | 8,460     |
| Percentage of oil production  | 42%       |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 35,056        |
| Secondary    | 29,983        |
| <b>Total</b> | <b>65,039</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 1,719      |
| Stripper well abandonments    | 24         |
| Natural gas production in Mcf | 15,574,407 |

### Federal Onshore Mineral Lease Royalties

|                        |                    |
|------------------------|--------------------|
| Oil                    | \$8,680            |
| Gas                    | \$2,392,613        |
| <b>Total Royalties</b> | <b>\$2,432,786</b> |

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Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799

## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 58 |
| With oil and/or gas production | 29 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1861 |
| Natural gas | 1889 |

### Year and amount of peak production

|                                  |      |
|----------------------------------|------|
| Crude oil — 423,877 thous. bbls. | 1985 |
| Natural gas — 714,893 MMcf       | 1968 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 14,570 |
| Natural gas | 12,576 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1987 | 24,426 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |                |             |
|--------------|----------------|-------------|
| Oil wells    | 130,521        | 80%         |
| Gas wells    | 4,379          | 3%          |
| Dry holes    | 28,298         | 17%         |
| <b>Total</b> | <b>163,198</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

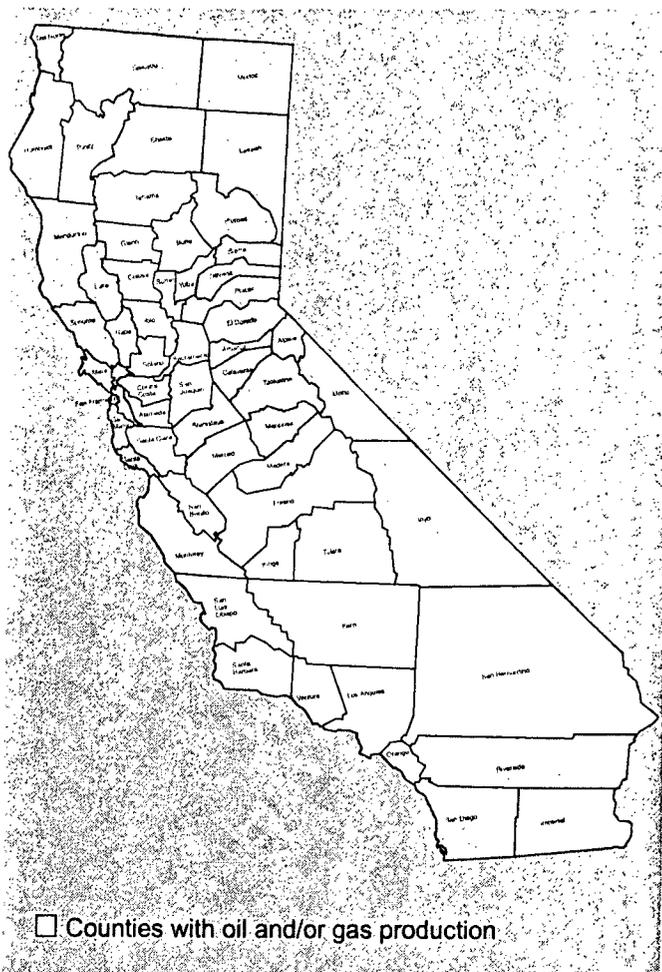
as of 12/31/03 (thous. \$)

\$179,324,581

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total  | Natural Gas (Bcf) |
|------------|-----------|------------------|--------|-------------------|
| Reserves   | 30,336    | 1,474            | 31,810 | 44,983            |
| Production | 23,917    | 1,359            | 25,276 | 35,723            |



## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$26.29 |
| Natural gas (\$/Mcf) | \$5.04  |

### Wellhead value of production

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Crude oil    | \$6,535,168        |
| Natural gas  | \$337,216          |
| <b>Total</b> | <b>\$6,872,384</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$9.13 |
| Commercial consumers  | \$8.15 |
| Industrial consumers  | \$7.19 |
| Electric utilities    | \$5.49 |
| City Gate             | \$5.16 |

### Severance taxes paid

(2003, in thous. \$)

\$214,473

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | 3           | 1,748        | 1,751        |
| Gas          | 6           | 47           | 53           |
| Dry          | 19          | 68           | 87           |
| Service      | --          | 387          | 387          |
| <b>Total</b> | <b>28</b>   | <b>2,250</b> | <b>2,278</b> |

### Total footage drilled

| (thous. ft.) | Exploratory  | Development    | Total          |
|--------------|--------------|----------------|----------------|
| Oil          | 4.8          | 3,892.3        | 3,897.1        |
| Gas          | 31.8         | 240.6          | 272.4          |
| Dry          | 143.9        | 223.1          | 367.0          |
| Service      | --           | 688.2          | 688.2          |
| <b>Total</b> | <b>180.5</b> | <b>5,044.2</b> | <b>5,224.7</b> |

(Note: Totals may not add due to rounding.)

|                                   |       |
|-----------------------------------|-------|
| <b>New-field wildcats drilled</b> | 15    |
| Footage (thous. ft.)              | 113.6 |

|                                   |    |
|-----------------------------------|----|
| <b>Average rotary rigs active</b> | 22 |
|-----------------------------------|----|

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 2nd       | 20th        |
| Production      | 4th       | 11th        |
| Reserves (2002) | 4th       | 14th        |

### Number of producing wells

| (12/31/03)      |               |
|-----------------|---------------|
| Crude oil       | 46,350        |
| Flowing         | 2,120         |
| Artificial lift | 44,230        |
| Natural gas     | 1,190         |
| <b>Total</b>    | <b>47,540</b> |

### Average production

|              | thous. bbls.   | thous. b/d |
|--------------|----------------|------------|
| Crude oil    | 248,580        | 681        |
| NGL (est.)   | 9,614          | 26         |
| <b>Total</b> | <b>258,194</b> | <b>707</b> |

|  |         |
|--|---------|
| <b>Natural gas marketed production</b> | 337,216 |
| (MMcf)                                 |         |

### Average output per producing well

|                   |         |
|-------------------|---------|
| Crude oil (bbls.) | 5,363   |
| Natural gas (Mcf) | 283,375 |

### Average number of employees

|                                 |                |
|---------------------------------|----------------|
| Oil and natural gas extraction  | 14,526         |
| Refining                        | 14,054         |
| Transportation                  | 32,681         |
| Wholesale                       | 10,800         |
| Retail                          | 55,555         |
| <b>Total petroleum industry</b> | <b>127,616</b> |

Compiled by IPAA July 2005

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 263       | 29  | 292   |
| Production        | 257       | 10  | 267   |
| Net annual change | 6         | 19  | 25    |
| Proved reserves   | 3,633     | 95  | 3,728 |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 194                     | 42                 | 201        |
| Production        | 216                     | 88                 | 291        |
| Net annual change | -22                     | -46                | -90        |
| Proved reserves   | 1,900                   | 796                | 2,591      |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 203.58           | 438,704            | 666,830                   |
| Gas          | 99.11            | 508,400            | 5,084                     |
| Dry          | 297.23           | 1,243,786          | 52,239                    |
| <b>Total</b> | <b>206.75</b>    | <b>460,657</b>     | <b>724,153</b>            |

### Stripper wells

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 24,420     |
| Stripper well abandonments    | 2,452      |
| Crude oil production in bbls. | 35,030,269 |
| Crude oil production b/d      | 95,973     |
| Percentage of oil production  | 14%        |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |                |
|--------------|----------------|
| Primary      | 66,253         |
| Secondary    | 58,753         |
| <b>Total</b> | <b>125,006</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 446       |
| Stripper well abandonments    | 69        |
| Natural gas production in Mcf | 3,506,947 |

### Federal Onshore Mineral Lease Royalties

|                        |                     |
|------------------------|---------------------|
| Oil                    | \$34,470,878        |
| Gas                    | \$2,465,424         |
| <b>Total Royalties</b> | <b>\$53,912,462</b> |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
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## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 63 |
| With oil and/or gas production | 36 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1887 |
| Natural gas | 1893 |

### Year and amount of peak production

|                                 |      |
|---------------------------------|------|
| Crude oil — 58,516 thous. bbls. | 1956 |
| Natural gas — 1,011,285 MMcf    | 2003 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 12,704 |
| Natural gas | 17,654 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1986 | 22,092 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |               |             |
|--------------|---------------|-------------|
| Oil wells    | 12,011        | 22%         |
| Gas wells    | 18,529        | 35%         |
| Dry holes    | 22,959        | 43%         |
| <b>Total</b> | <b>53,499</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$) \$19,539,572

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 2,069     | 808              | 2,877 | 26,673            |
| Production | 1,895     | 428              | 2,323 | 13,166            |

Counties with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$30.71 |
| Natural gas (\$/Mcf) | \$4.54  |

### Wellhead value of production

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Crude oil    | \$658,207          |
| Natural gas  | \$4,591,234        |
| <b>Total</b> | <b>\$5,249,441</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$5.62 |
| Commercial consumers  | \$4.82 |
| Industrial consumers  | \$4.79 |
| Electric utilities    | \$2.62 |
| City Gate             | \$2.72 |

### Severance taxes paid

(2003, in thous. \$)

\$23,613

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | 8           | 28           | 36           |
| Gas          | 28          | 1,431        | 1,459        |
| Dry          | 45          | 45           | 90           |
| Service      | --          | 4            | 4            |
| <b>Total</b> | <b>81</b>   | <b>1,508</b> | <b>1,589</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory  | Development    | Total          |
|--------------|--------------|----------------|----------------|
| Oil          | 50.3         | 142.7          | 193.0          |
| Gas          | 160.1        | 8,045.4        | 8,205.5        |
| Dry          | 258.6        | 176.0          | 434.6          |
| Service      | --           | 12.4           | 12.4           |
| <b>Total</b> | <b>469.0</b> | <b>8,376.5</b> | <b>8,845.5</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 47  
257.2

### Average rotary rigs active

39

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 16th      | 5th         |
| Production      | 11th      | 7th         |
| Reserves (2002) | 13th      | 6th         |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 5,941         |
| Flowing         | 0             |
| Artificial lift | 5,941         |
| Natural gas     | 18,774        |
| <b>Total</b>    | <b>24,715</b> |

### Average production

|              | thous. bbls.  | thous. b/d |
|--------------|---------------|------------|
| Crude oil    | 21,433        | 59         |
| NGL (est.)   | 21,050        | 58         |
| <b>Total</b> | <b>42,483</b> | <b>116</b> |

### Natural gas marketed production

(MMcf)

1,011,285

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 3,608  |
| Natural gas (Mcf) | 53,866 |

### Average number of employees

|                                 |               |
|---------------------------------|---------------|
| Oil and natural gas extraction  | 8,361         |
| Refining                        | 390           |
| Transportation                  | 2,036         |
| Wholesale                       | 2,162         |
| Retail                          | 13,954        |
| <b>Total petroleum industry</b> | <b>26,903</b> |

Compiled by IPAA July 2005

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 35        | 78  | 113   |
| Production        | 17        | 27  | 44    |
| Net annual change | 18        | 51  | 69    |
| Proved reserves   | 214       | 396 | 610   |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 155                     | 2,241              | 2,325      |
| Production        | 83                      | 914                | 964        |
| Net annual change | 72                      | 1,327              | 1,361      |
| Proved reserves   | 1,097                   | 13,251             | 13,888     |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 165.00           | 835,381            | 17,543                    |
| Gas          | 119.60           | 685,014            | 767,901                   |
| Dry          | 87.64            | 424,238            | 26,727                    |
| <b>Total</b> | <b>118.88</b>    | <b>674,000</b>     | <b>812,171</b>            |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 5,384     |
| Stripper well abandonments    | 119       |
| Crude oil production in bbls. | 4,643,717 |
| Crude oil production b/d      | 12,723    |
| Percentage of oil production  | 26%       |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 13,830        |
| Secondary    | 10,510        |
| <b>Total</b> | <b>24,340</b> |

### Natural gas stripper wells

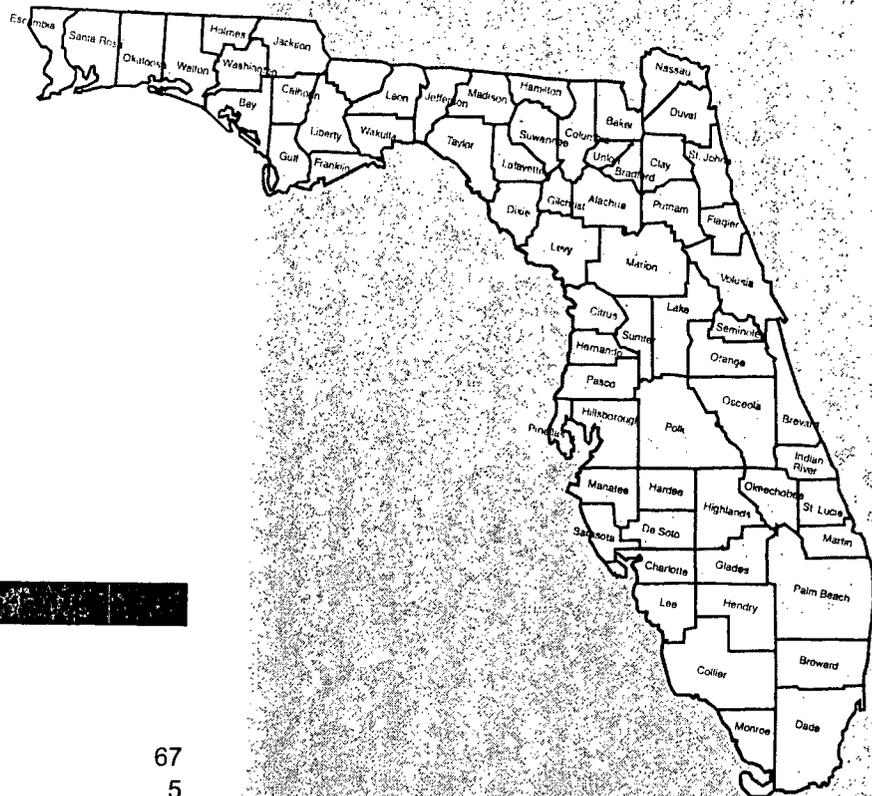
as of 1/1/03

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 6,701      |
| Stripper well abandonments    | 33         |
| Natural gas production in Mcf | 60,945,434 |

### Federal Onshore Mineral Lease Royalties

|                        |                      |
|------------------------|----------------------|
| Oil                    | \$15,435,561         |
| Gas                    | \$74,678,625         |
| <b>Total Royalties</b> | <b>\$149,082,470</b> |

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□ Counties with oil and/or gas production

## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 67 |
| With oil and/or gas production | 5  |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1943 |
| Natural gas | 1943 |

### Year and amount of peak production

|                                 |      |
|---------------------------------|------|
| Crude oil — 47,536 thous. bbls. | 1978 |
| Natural gas — 51,595 MMcf       | 1978 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 16,656 |
| Natural gas | 17,452 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1975 | 18,670 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |              |             |
|--------------|--------------|-------------|
| Oil wells    | 290          | 28%         |
| Gas wells    | 4            | 0%          |
| Dry holes    | 739          | 72%         |
| <b>Total</b> | <b>1,032</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$) \$9,352,458

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 739       | 93               | 832   | 691               |
| Production | 670       | 86               | 756   | 589               |

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |    |
|----------------------|----|
| Crude oil (\$/bbl.)  | NA |
| Natural gas (\$/Mcf) | NA |

### Wellhead value of production

(2003, in thous. \$)

|             |    |
|-------------|----|
| Crude oil   | NA |
| Natural gas | NA |
| Total       | NA |

### Average natural gas price

(2003, \$/Mcf)

|                       |         |
|-----------------------|---------|
| Residential consumers | \$16.17 |
| Commercial consumers  | \$10.39 |
| Industrial consumers  | \$6.82  |
| Electric utilities    | \$5.87  |
| City Gate             | \$5.87  |

### Severance taxes paid

(2003, in thous. \$)

\$5,469

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total |
|--------------|-------------|-------------|-------|
| Oil          | --          | --          | --    |
| Gas          | --          | --          | --    |
| Dry          | --          | --          | --    |
| Service      | --          | --          | --    |
| <b>Total</b> | --          | --          | --    |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development | Total |
|--------------|-------------|-------------|-------|
| Oil          | --          | --          | --    |
| Gas          | --          | --          | --    |
| Dry          | --          | --          | --    |
| Service      | --          | --          | --    |
| <b>Total</b> | --          | --          | --    |

### New-field wildcats drilled

Footage (thous. ft.) 0

### Average rotary rigs active

0

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | --        | --          |
| Production      | 20th      | 24th        |
| Reserves (2002) | 16th      | 24th        |

### Number of producing wells

(12/31/03)

|                 |           |
|-----------------|-----------|
| Crude oil       | 70        |
| Flowing         | 20        |
| Artificial lift | 50        |
| Natural gas     | --        |
| <b>Total</b>    | <b>70</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 3,262        | 9          |
| NGL (est.)   | 800          | 2          |
| <b>Total</b> | <b>4,062</b> | <b>11</b>  |

### Natural gas marketed production

(MMcf)

3,087

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 46,600 |
| Natural gas (Mcf) | NA     |

### Average number of employees

|                                 |               |
|---------------------------------|---------------|
| Oil and natural gas extraction  | 1,579         |
| Refining                        | 394           |
| Transportation                  | 1,923         |
| Wholesale                       | 5,532         |
| Retail                          | 38,948        |
| <b>Total petroleum industry</b> | <b>48,376</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 2         | 3   | 5     |
| Production        | 4         | 1   | 5     |
| Net annual change | -2        | 2   | 0     |
| Proved reserves   | 73        | 14  | 87    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 11                      | --                 | 11         |
| Production        | 5                       | --                 | 4          |
| Net annual change | 6                       | --                 | 7          |
| Proved reserves   | 102                     | --                 | 91         |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | --               | --                 | --                        |
| Gas          | --               | --                 | --                        |
| Dry          | --               | --                 | --                        |
| <b>Total</b> | <b>--</b>        | <b>--</b>          | <b>--</b>                 |

### Stripper wells

|                               |   |
|-------------------------------|---|
| Producing stripper wells      | 0 |
| Stripper well abandonments    | 0 |
| Crude oil production in bbls. | 0 |
| Crude oil production b/d      | 0 |
| Percentage of oil production  | 0 |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |          |
|--------------|----------|
| Primary      | 0        |
| Secondary    | 0        |
| <b>Total</b> | <b>0</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |   |
|-------------------------------|---|
| Producing stripper wells      | 0 |
| Stripper well abandonments    | 0 |
| Natural gas production in Mcf | 0 |

### Federal Onshore Mineral Lease Royalties

|                        |                 |
|------------------------|-----------------|
| Oil                    | \$20,622        |
| Gas                    | -               |
| <b>Total Royalties</b> | <b>\$20,622</b> |

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202-857-4722, FAX: 202-857-4799

## Background Information

### Counties

|                                |     |
|--------------------------------|-----|
| Number of counties             | 102 |
| With oil and/or gas production | 45  |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1889 |
| Natural gas | 1882 |

### Year and amount of peak production

|                                  |      |
|----------------------------------|------|
| Crude oil — 147,647 thous. bbls. | 1940 |
| Natural gas — 18,137 MMcf        | 1944 |

### Deepest producing well (ft.)

|             |       |
|-------------|-------|
| Crude oil   | 5,405 |
| Natural gas | 4,832 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1976 | 14,942 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |                |             |
|--------------|----------------|-------------|
| Oil wells    | 83,367         | 60%         |
| Gas wells    | 1,869          | 1%          |
| Dry holes    | 53,330         | 39%         |
| <b>Total</b> | <b>138,566</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03(thous. \$) \$19,864,402

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 3,573     | NA               | 3,573 | NA                |
| Production | 3,516     | NA               | 3,516 | NA                |



## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$29.10 |
| Natural gas (\$/Mcf) | NA      |

### Wellhead value of production

(2003, in thous. \$)

|              |                  |
|--------------|------------------|
| Crude oil    | \$340,470        |
| Natural gas  | NA               |
| <b>Total</b> | <b>\$340,470</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$8.65 |
| Commercial consumers  | \$8.26 |
| Industrial consumers  | \$7.23 |
| Electric utilities    | \$6.06 |
| City Gate             | \$5.97 |

### Severance taxes paid

(2003, in thous. \$) --

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | 4           | 113         | 117        |
| Gas          | --          | 14          | 14         |
| Dry          | 37          | 53          | 90         |
| Service      | --          | 23          | 23         |
| <b>Total</b> | <b>41</b>   | <b>203</b>  | <b>244</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | 9.8         | 277.3        | 287.1        |
| Gas          | --          | 9.4          | 9.4          |
| Dry          | 84.2        | 114.8        | 199.0        |
| Service      | --          | 28.2         | 28.2         |
| <b>Total</b> | <b>94.0</b> | <b>429.7</b> | <b>523.7</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 30  
74.1

### Average rotary rigs active

0

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 14th      | 22nd        |
| Production      | 15th      | 31st        |
| Reserves (2002) | 15th      | NA          |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 16,737        |
| Flowing         | 7             |
| Artificial lift | 16,730        |
| Natural gas     | 240           |
| <b>Total</b>    | <b>16,977</b> |

### Average production

|              | thous. bbls.  | thous. b/d |
|--------------|---------------|------------|
| Crude oil    | 11,700        | 32         |
| NGL (est.)   | 46,894        | 128        |
| <b>Total</b> | <b>58,594</b> | <b>161</b> |

### Natural gas marketed production

(MMcf)

174

### Average output per producing well

|                   |     |
|-------------------|-----|
| Crude oil (bbls.) | 699 |
| Natural gas (Mcf) | 725 |

### Average number of employees

|                                 |               |
|---------------------------------|---------------|
| Oil and natural gas extraction  | 1,962         |
| Refining                        | 6,516         |
| Transportation                  | 6,291         |
| Wholesale                       | 2,475         |
| Retail                          | 27,212        |
| <b>Total petroleum industry</b> | <b>44,456</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 24        | NA  | 24    |
| Production        | 9         | NA  | 9     |
| Net annual change | 15        | NA  | 15    |
| Proved reserves   | 107       | NA  | 107   |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | NA                      | NA                 | NA         |
| Production        | NA                      | NA                 | NA         |
| Net annual change | NA                      | NA                 | NA         |
| Proved reserves   | NA                      | NA                 | NA         |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 62.06            | 151,953            | 16,259                    |
| Gas          | 130.30           | 125,250            | 501                       |
| Dry          | 42.66            | 116,900            | 8,183                     |
| <b>Total</b> | <b>54.50</b>     | <b>137,807</b>     | <b>24,943</b>             |

### Stripper wells

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 17,466     |
| Stripper well abandonments    | 710        |
| Crude oil production in bbls. | 10,720,000 |
| Crude oil production b/d      | 29,370     |
| Percentage of oil production  | 89%        |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 14,662        |
| Secondary    | 14,681        |
| <b>Total</b> | <b>29,343</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |         |
|-------------------------------|---------|
| Producing stripper wells      | 172     |
| Stripper well abandonments    | 5       |
| Natural gas production in Mcf | 184,860 |

### Federal Onshore Mineral Lease Royalties

|                        |                  |
|------------------------|------------------|
| Oil                    | \$109,569        |
| Gas                    | -                |
| <b>Total Royalties</b> | <b>\$109,569</b> |

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## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 92 |
| With oil and/or gas production | 48 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1889 |
| Natural gas | 1885 |

### Year and amount of peak production

|                                 |      |
|---------------------------------|------|
| Crude oil — 12,833 thous. bbls. | 1953 |
| Natural gas — 2,241 MMcf        | 1936 |

### Deepest producing well (ft.)

|             |       |
|-------------|-------|
| Crude oil   | 8,429 |
| Natural gas | 3,355 |

### Year and depth of deepest well drilled (ft.)

|      |       |
|------|-------|
| 1998 | 8,429 |
|------|-------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |               |             |
|--------------|---------------|-------------|
| Oil wells    | 39,106        | 58%         |
| Gas wells    | 2,555         | 4%          |
| Dry holes    | 25,804        | 38%         |
| <b>Total</b> | <b>67,465</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$)

\$3,292,935

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 548       | NA               | 548   | NA                |
| Production | 541       | NA               | 541   | NA                |



□ Counties with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$28.38 |
| Natural gas (\$/Mcf) | \$5.41  |

### Wellhead value of production

(2003, in thous. \$)

|              |                 |
|--------------|-----------------|
| Crude oil    | \$52,929        |
| Natural gas  | \$7,920         |
| <b>Total</b> | <b>\$60,849</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$7.68 |
| Commercial consumers  | \$6.83 |
| Industrial consumers  | \$5.48 |
| Electric utilities    | \$3.85 |
| City Gate             | \$3.58 |

### Severance taxes paid

(2003, in thous. \$)

\$590

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | --          | 42          | 42         |
| Gas          | 20          | 50          | 70         |
| Dry          | 9           | 29          | 38         |
| Service      | --          | 2           | 2          |
| <b>Total</b> | <b>29</b>   | <b>123</b>  | <b>152</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development | Total        |
|--------------|-------------|-------------|--------------|
| Oil          | --          | 50.0        | 50.0         |
| Gas          | 23.3        | 9.3         | 32.6         |
| Dry          | 14.4        | 24.7        | 39.1         |
| Service      | --          | 1.5         | 1.5          |
| <b>Total</b> | <b>37.7</b> | <b>85.5</b> | <b>123.2</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 18

### Average rotary rigs active

0

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 15th      | 19th        |
| Production      | 24th      | 26th        |
| Reserves (2002) | 23rd      | NA          |

### Number of producing wells

(12/31/03)

|                 |              |
|-----------------|--------------|
| Crude oil       | 5,001        |
| Flowing         | 250          |
| Artificial lift | 4,751        |
| Natural gas     | 1,860        |
| <b>Total</b>    | <b>6,861</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 1,865        | 5          |
| NGL (est.)   | --           | --         |
| <b>Total</b> | <b>1,865</b> | <b>5</b>   |

### Natural gas marketed production

(MMcf)

1,464

### Average output per producing well

|                   |     |
|-------------------|-----|
| Crude oil (bbls.) | 373 |
| Natural gas (Mcf) | 787 |

### Average number of employees

|                                 |               |
|---------------------------------|---------------|
| Oil and natural gas extraction  | 324           |
| Refining                        | 419           |
| Transportation                  | 3,386         |
| Wholesale                       | 3,664         |
| Retail                          | 25,555        |
| <b>Total petroleum industry</b> | <b>33,348</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 5         | NA  | 5     |
| Production        | 2         | NA  | 2     |
| Net annual change | 3         | NA  | 3     |
| Proved reserves   | 15        | NA  | 15    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | NA                      | NA                 | NA         |
| Production        | NA                      | NA                 | NA         |
| Net annual change | NA                      | NA                 | NA         |
| Proved reserves   | NA                      | NA                 | NA         |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 58.52            | 111,536            | 3,123                     |
| Gas          | 196.65           | 152,667            | 1,832                     |
| Dry          | 44.42            | 86,476             | 1,816                     |
| <b>Total</b> | <b>65.37</b>     | <b>110,983</b>     | <b>6,770</b>              |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 4,956     |
| Stripper well abandonments    | 125       |
| Crude oil production in bbls. | 1,962,078 |
| Crude oil production b/d      | 5,576     |
| Percentage of oil production  | 100%      |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 7,690         |
| Secondary    | 7,615         |
| <b>Total</b> | <b>15,305</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 1,545     |
| Stripper well abandonments    | 2         |
| Natural gas production in Mcf | 1,309,120 |

### Federal Onshore Mineral Lease Royalties

|                        |          |
|------------------------|----------|
| Oil                    | --       |
| Gas                    | --       |
| <b>Total Royalties</b> | <b>-</b> |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
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## Background Information

### Counties

|                                |     |
|--------------------------------|-----|
| Number of counties             | 105 |
| With oil and/or gas production | 89  |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1889 |
| Natural gas | 1882 |

### Year and amount of peak production

|                                  |      |
|----------------------------------|------|
| Crude oil — 124,204 thous. bbls. | 1956 |
| Natural gas — 899,955 MMcf       | 1970 |

### Deepest producing well (ft.)

|             |       |
|-------------|-------|
| Crude oil   | 7,400 |
| Natural gas | 6,774 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1984 | 11,300 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |                |             |
|--------------|----------------|-------------|
| Oil wells    | 129,859        | 49%         |
| Gas wells    | 30,575         | 12%         |
| Dry holes    | 103,139        | 39%         |
| <b>Total</b> | <b>263,573</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$) \$43,467,914

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 6,257     | 1,422            | 7,679 | 44,069            |
| Production | 6,080     | 1,242            | 7,322 | 39,283            |

Counties with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$28.68 |
| Natural gas (\$/Mcf) | \$4.33  |

### Wellhead value of production

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Crude oil    | \$973,973          |
| Natural gas  | \$1,813,807        |
| <b>Total</b> | <b>\$2,787,780</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$7.24 |
| Commercial consumers  | \$6.51 |
| Industrial consumers  | \$3.61 |
| Electric utilities    | \$3.11 |
| City Gate             | \$4.12 |

### Severance taxes paid

(2003, in thous. \$)

\$59,895

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | 70          | 378          | 448          |
| Gas          | 51          | 657          | 708          |
| Dry          | 153         | 245          | 398          |
| Service      | --          | 40           | 40           |
| <b>Total</b> | <b>274</b>  | <b>1,320</b> | <b>1,594</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory    | Development    | Total          |
|--------------|----------------|----------------|----------------|
| Oil          | 317.8          | 1,150.9        | 1,468.7        |
| Gas          | 194.7          | 1,370.9        | 1,565.6        |
| Dry          | 675.1          | 797.7          | 1,472.8        |
| Service      | --             | 79.7           | 79.7           |
| <b>Total</b> | <b>1,187.6</b> | <b>3,399.2</b> | <b>4,586.8</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 151  
656.8

### Average rotary rigs active

9

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 4th       | 9th         |
| Production      | 9th       | 9th         |
| Reserves (2002) | 12th      | 9th         |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 40,500        |
| Flowing         | 550           |
| Artificial lift | 39,950        |
| Natural gas     | 18,639        |
| <b>Total</b>    | <b>59,139</b> |

### Average production

|              | thous. bbls.  | thous. b/d |
|--------------|---------------|------------|
| Crude oil    | 33,960        | 93         |
| NGL (est.)   | 29,336        | 80         |
| <b>Total</b> | <b>63,296</b> | <b>173</b> |

### Natural gas marketed production

(MMcf)

418,893

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 839    |
| Natural gas (Mcf) | 22,474 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 5,505  |
| Refining                       | 1,521  |
| Transportation                 | 2,960  |
| Wholesale                      | 2,073  |
| Retail                         | 11,058 |
| Total petroleum industry       | 23,117 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 53        | -14 | 39    |
| Production        | 32        | 25  | 57    |
| Net annual change | 21        | -39 | -18   |
| Proved reserves   | 237       | 263 | 500   |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | -31                     | 403                | 353        |
| Production        | 8                       | 495                | 471        |
| Net annual change | -39                     | -92                | -118       |
| Proved reserves   | 66                      | 5,263              | 4,983      |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 50.70            | 176,904            | 58,909                    |
| Gas          | 68.12            | 174,141            | 71,746                    |
| Dry          | 34.98            | 132,790            | 46,875                    |
| <b>Total</b> | <b>49.94</b>     | <b>161,685</b>     | <b>177,530</b>            |

### Stripper wells

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 33,317     |
| Stripper well abandonments    | 1,722      |
| Crude oil production in bbls. | 25,002,372 |
| Crude oil production b/d      | 68,500     |
| Percentage of oil production  | 77%        |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |                |
|--------------|----------------|
| Primary      | 57,870         |
| Secondary    | 52,076         |
| <b>Total</b> | <b>109,946</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |             |
|-------------------------------|-------------|
| Producing stripper wells      | 10,437      |
| Stripper well abandonments    | 298         |
| Natural gas production in Mcf | 124,877,543 |

### Federal Onshore Mineral Lease Royalties

|                        |                    |
|------------------------|--------------------|
| Oil                    | \$840,712          |
| Gas                    | \$3,663,650        |
| <b>Total Royalties</b> | <b>\$4,435,362</b> |

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## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total    |
|--------------|-------------|-------------|----------|
| Oil          | --          | --          | --       |
| Gas          | --          | 3           | 3        |
| Dry          | --          | 1           | 1        |
| Service      | --          | --          | --       |
| <b>Total</b> | --          | <b>4</b>    | <b>4</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | --          | --          | --         |
| Gas          | --          | 1.6         | 1.6        |
| Dry          | --          | 0.9         | 0.9        |
| Service      | --          | --          | --         |
| <b>Total</b> | --          | <b>1.7</b>  | <b>1.7</b> |

### New-field wildcats drilled

|                      |   |
|----------------------|---|
| Footage (thous. ft.) | 0 |
|----------------------|---|

### Average rotary rigs active

4

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | --        | 24th        |
| Production      | 22nd      | 19th        |
| Reserves (2002) | 21st      | 16th        |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 18,166        |
| Flowing         | 4             |
| Artificial lift | 18,162        |
| Natural gas     | 12,551        |
| <b>Total</b>    | <b>30,717</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 2,538        | 7          |
| NGL (est.)   | 1,334        | 4          |
| <b>Total</b> | <b>3,872</b> | <b>11</b>  |

### Natural gas marketed production

(MMcf)

87,608

### Average output per producing well

|                   |       |
|-------------------|-------|
| Crude oil (bbls.) | 140   |
| Natural gas (Mcf) | 6,980 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 1,688  |
| Refining                       | 1,190  |
| Transportation                 | 3,132  |
| Wholesale                      | 1,949  |
| Retail                         | 20,670 |
| Total petroleum industry       | 28,629 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 10        | -3  | 7     |
| Production        | 2         | 3   | 5     |
| Net annual change | 10        | -6  | 4     |
| Proved reserves   | 27        | 66  | 93    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 0                       | 132                | 126        |
| Production        | 0                       | 83                 | 79         |
| Net annual change | 0                       | 49                 | 47         |
| Proved reserves   | 25                      | 1,974              | 1,907      |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 76.84            | 127,833            | 8,437                     |
| Gas          | 62.25            | 225,316            | 118,516                   |
| Dry          | 81.16            | 115,010            | 23,462                    |
| <b>Total</b> | <b>65.32</b>     | <b>188,964</b>     | <b>150,415</b>            |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 19,462    |
| Stripper well abandonments    | 237       |
| Crude oil production in bbls. | 2,049,971 |
| Crude oil production b/d      | 5,616     |
| Percentage of oil production  | 75%       |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 3,892         |
| Secondary    | 7,415         |
| <b>Total</b> | <b>11,307</b> |

### Natural gas stripper wells

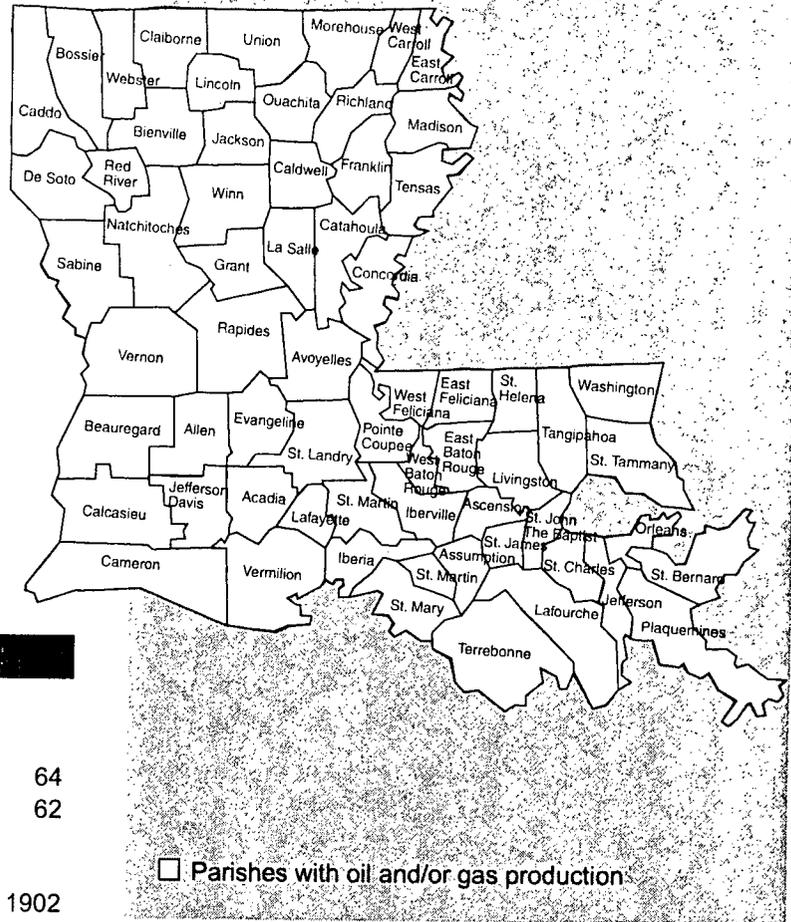
as of 1/1/03

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 16,010     |
| Stripper well abandonments    | 52         |
| Natural gas production in Mcf | 78,444,980 |

### Federal Onshore Mineral Lease Royalties

|                        |                 |
|------------------------|-----------------|
| Oil                    | \$1,415         |
| Gas                    | \$71,913        |
| <b>Total Royalties</b> | <b>\$73,328</b> |

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Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799



## Background Information

### Parishes

|                                |    |
|--------------------------------|----|
| Number of parishes             | 64 |
| With oil and/or gas production | 62 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1902 |
| Natural gas | 1905 |

### Year and amount of peak production

|                                  |      |
|----------------------------------|------|
| Crude oil — 935,243 thous. bbls. | 1971 |
| Natural gas — 8,242,423 MMcf     | 1973 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 22,856 |
| Natural gas | 21,862 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1981 | 25,703 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |                |             |
|--------------|----------------|-------------|
| Oil wells    | 90,102         | 43%         |
| Gas wells    | 41,174         | 20%         |
| Dry holes    | 78,075         | 37%         |
| <b>Total</b> | <b>209,351</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$)

\$249,287,022

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total  | Natural Gas (Bcf) |
|------------|-----------|------------------|--------|-------------------|
| Reserves   | 27,595    | 4,830            | 32,425 | 260,670           |
| Production | 18,489    | 3,138            | 21,627 | 142,516           |

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$30.31 |
| Natural gas (\$/Mcf) | \$5.64  |

### Wellhead value of production

(2003, in thous. \$)

|              |                     |
|--------------|---------------------|
| Crude oil    | \$2,740,721         |
| Natural gas  | \$7,616,250         |
| <b>Total</b> | <b>\$10,356,971</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$8.13 |
| Commercial consumers  | \$6.79 |
| Industrial consumers  | \$3.70 |
| Electric utilities    | \$3.66 |
| City Gate             | \$4.07 |

### Severance taxes paid

(2003, in thous. \$)

\$454,429

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | 6           | 252          | 258          |
| Gas          | 49          | 780          | 829          |
| Dry          | 93          | 321          | 414          |
| Service      | --          | --           | --           |
| <b>Total</b> | <b>148</b>  | <b>1,353</b> | <b>1,501</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory    | Development      | Total           |
|--------------|----------------|------------------|-----------------|
| Oil          | 49.8           | 1,812.2          | 1,862.0         |
| Gas          | 512.6          | 7,941.9          | 8,454.5         |
| Dry          | 879.5          | 2,792.5          | 3,672.0         |
| Service      | --             | --               | --              |
| <b>Total</b> | <b>1,441.9</b> | <b>112,546.7</b> | <b>13,988.5</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

|                      |         |
|----------------------|---------|
| Footage (thous. ft.) | 138     |
|                      | 1,343.7 |

### Average rotary rigs active

157

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 6th       | 8th         |
| Production      | 5th       | 6th         |
| Reserves (2002) | 8th       | 7th         |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 20,184        |
| Flowing         | 1,657         |
| Artificial lift | 18,527        |
| Natural gas     | 15,694        |
| <b>Total</b>    | <b>35,878</b> |

### Average production

|              | thous. bbls.   | thous. b/d |
|--------------|----------------|------------|
| Crude oil    | 90,423         | 248        |
| NGL (est.)   | 116,104        | 318        |
| <b>Total</b> | <b>206,527</b> | <b>566</b> |

### Natural gas marketed production

(MMcf)

1,350,399

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 4,480  |
| Natural gas (Mcf) | 86,046 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 42,909 |
| Refining                       | 10,084 |
| Transportation                 | 3,969  |
| Wholesale                      | 4,282  |
| Retail                         | 19,440 |
| Total petroleum industry       | 80,684 |

Compiled by IPAA July 2005

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | -3        | 0   | -3    |
| Production        | 60        | 68  | 128   |
| Net annual change | -63       | -68 | -131  |
| Proved reserves   | 501       | 323 | 824   |

### Natural gas reserves

as of 12/31/02(Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | -29                     | 558                | 487        |
| Production        | 97                      | 1,283              | 1,338      |
| Net annual change | -126                    | -725               | -851       |
| Proved reserves   | 670                     | 8,520              | 8,960      |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 553.81           | 3,955,149          | 609,093                   |
| Gas          | 448.09           | 4,590,176          | 2,483,285                 |
| Dry          | 562.95           | 5,408,609          | 1,660,443                 |
| <b>Total</b> | <b>495.54</b>    | <b>4,743,334</b>   | <b>4,752,821</b>          |

### Stripper wells

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 20,891     |
| Stripper well abandonments    | 731        |
| Crude oil production in bbls. | 14,999,393 |
| Crude oil production b/d      | 41,094     |
| Percentage of oil production  | 16%        |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |                |
|--------------|----------------|
| Primary      | 64,710         |
| Secondary    | 62,172         |
| <b>Total</b> | <b>126,882</b> |

### Natural gas stripper wells

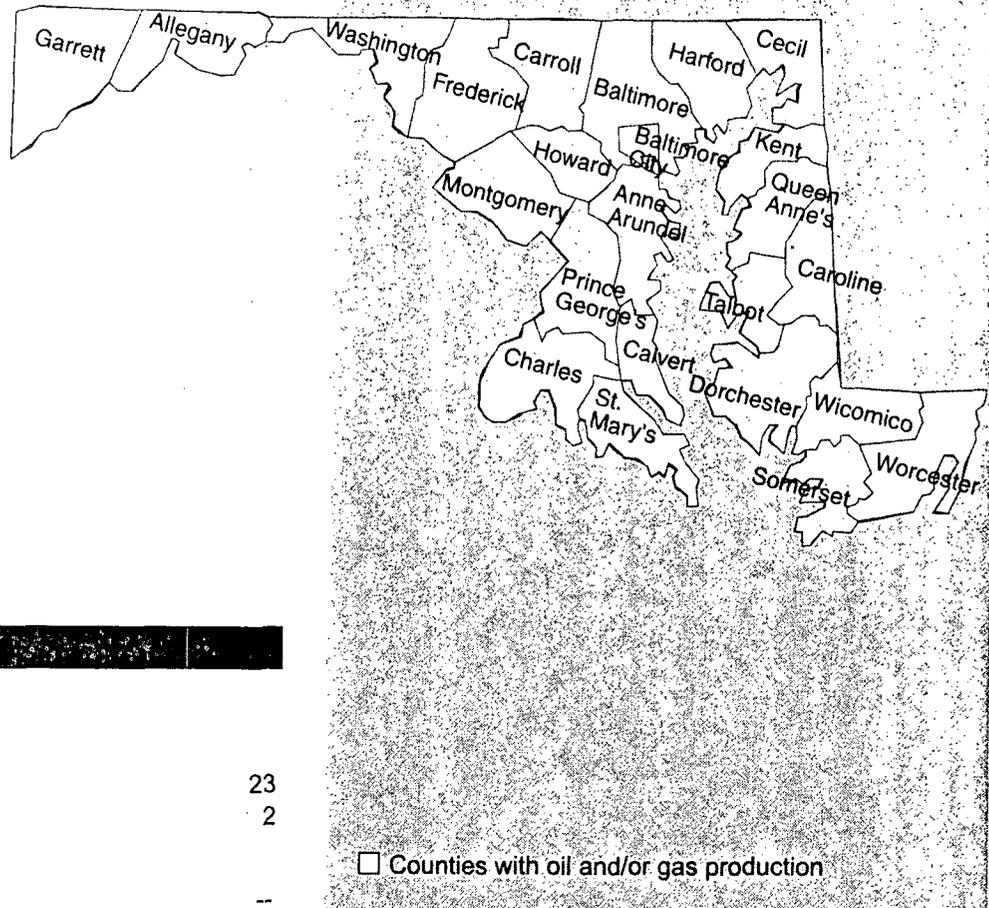
as of 1/1/03

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 9,595      |
| Stripper well abandonments    | 396        |
| Natural gas production in Mcf | 40,835,950 |

### Federal Onshore Mineral Lease Royalties

|                        |                     |
|------------------------|---------------------|
| Oil                    | \$26,995,243        |
| Gas                    | \$52,012,665        |
| <b>Total Royalties</b> | <b>\$79,404,734</b> |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
11201 15th St., N.W., Suite 300 Washington, D.C. 20005  
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## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 23 |
| With oil and/or gas production | 2  |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | --   |
| Natural gas | 1950 |

### Year and amount of peak production

|                          |      |
|--------------------------|------|
| Crude oil —              | --   |
| Natural gas — 4,543 MMcf | 1959 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 10,376 |
| Natural gas | 8,658  |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1973 | 11,617 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |            |             |
|--------------|------------|-------------|
| Oil wells    | 0          | 0%          |
| Gas wells    | 72         | 59%         |
| Dry holes    | 51         | 41%         |
| <b>Total</b> | <b>123</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$)

NA

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 0         | NA               | NA    | NA                |
| Production | 0         | NA               | NA    | NA                |

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |        |
|----------------------|--------|
| Crude oil (\$/bbl.)  | NA     |
| Natural gas (\$/Mcf) | \$4.50 |

### Wellhead value of production

(2003, in thous. \$)

|              |              |
|--------------|--------------|
| Crude oil    | NA           |
| Natural gas  | \$216        |
| <b>Total</b> | <b>\$216</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |         |
|-----------------------|---------|
| Residential consumers | \$11.01 |
| Commercial consumers  | \$8.12  |
| Industrial consumers  | \$9.57  |
| Electric utilities    | \$6.71  |
| City Gate             | \$6.87  |

### Severance taxes paid

(2003, in thous. \$)

\$1

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total |
|--------------|-------------|-------------|-------|
| Oil          | --          | --          | --    |
| Gas          | --          | --          | --    |
| Dry          | --          | --          | --    |
| Service      | --          | --          | --    |
| <b>Total</b> | --          | --          | --    |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development | Total |
|--------------|-------------|-------------|-------|
| Oil          | --          | --          | --    |
| Gas          | --          | --          | --    |
| Dry          | --          | --          | --    |
| Service      | --          | --          | --    |
| <b>Total</b> | --          | --          | --    |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) --

**Average rotary rigs active** 0

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | --        | --          |
| Production      | --        | 32nd        |
| Reserves (2002) | --        | NA          |

### Number of producing wells

(12/31/03)

|                 |           |
|-----------------|-----------|
| Crude oil       | 0         |
| Flowing         | 0         |
| Artificial lift | 0         |
| Natural gas     | 11        |
| <b>Total</b>    | <b>11</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | NA           | NA         |
| NGL (est.)   | NA           | NA         |
| <b>Total</b> | <b>NA</b>    | <b>NA</b>  |

### Natural gas marketed production

(MMcf)

48

### Average output per producing well

|                   |       |
|-------------------|-------|
| Crude oil (bbls.) | 0     |
| Natural gas (Mcf) | 4,364 |

### Average number of employees

|                                 |               |
|---------------------------------|---------------|
| Oil and natural gas extraction  | 203           |
| Refining                        | 38            |
| Transportation                  | 959           |
| Wholesale                       | 2,793         |
| Retail                          | 11,682        |
| <b>Total petroleum industry</b> | <b>15,675</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | NA        | NA  | NA    |
| Production        | NA        | NA  | NA    |
| Net annual change | NA        | NA  | NA    |
| Proved reserves   | NA        | NA  | NA    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | NA                      | NA                 | NA         |
| Production        | NA                      | NA                 | NA         |
| Net annual change | NA                      | NA                 | NA         |
| Proved reserves   | NA                      | NA                 | NA         |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | --               | --                 | --                        |
| Gas          | --               | --                 | --                        |
| Dry          | --               | --                 | --                        |
| <b>Total</b> | <b>--</b>        | <b>--</b>          | <b>--</b>                 |

### Stripper wells

|                               |    |
|-------------------------------|----|
| Producing stripper wells      | -- |
| Stripper well abandonments    | -- |
| Crude oil production in bbls. | -- |
| Crude oil production b/d      | -- |
| Percentage of oil production  | -- |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |           |
|--------------|-----------|
| Primary      | --        |
| Secondary    | --        |
| <b>Total</b> | <b>--</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |        |
|-------------------------------|--------|
| Producing stripper wells      | 6      |
| Stripper well abandonments    | 0      |
| Natural gas production in Mcf | 13,446 |

### Federal Onshore Mineral Lease Royalties

|                        |            |
|------------------------|------------|
| Oil                    | --         |
| Gas                    | --         |
| <b>Total Royalties</b> | <b>\$0</b> |

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## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 83 |
| With oil and/or gas production | 63 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1900 |
| Natural gas | 1909 |

### Year and amount of peak production

|                                 |      |
|---------------------------------|------|
| Crude oil — 34,862 thous. bbls. | 1979 |
| Natural gas — 311,614 MMcf      | 1997 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 10,515 |
| Natural gas | 13,513 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1975 | 17,466 |
|------|--------|

### Cumulative number of total wells drilled

|  |               |             |  |
|--|---------------|-------------|--|
| as of 12/31/03 (excluding service wells) |               |             |  |
| Oil wells                                | 14,761        | 32%         |  |
| Gas wells                                | 10,584        | 23%         |  |
| Dry holes                                | 20,855        | 45%         |  |
| <b>Total</b>                             | <b>46,200</b> | <b>100%</b> |  |

|  |              |
|--|--------------|
| <b>Cumulative crude oil wellhead value</b> | \$13,965,493 |
| as of 12/31/03 (thous. \$)                 |              |

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 1,265     | 284              | 1,549 | 8,766             |
| Production | 1,222     | 225              | 1,447 | 4,945             |

## Value of Oil and Gas

### Average wellhead price

|                      |         |
|----------------------|---------|
| (2003)               |         |
| Crude oil (\$/bbl.)  | \$29.18 |
| Natural gas (\$/Mcf) | \$4.01  |

### Wellhead value of production

|                      |                    |
|----------------------|--------------------|
| (2003, in thous. \$) |                    |
| Crude oil            | \$190,370          |
| Natural gas          | \$950,318          |
| <b>Total</b>         | <b>\$1,140,688</b> |

### Average natural gas price

|                       |        |
|-----------------------|--------|
| (2003, \$/Mcf)        |        |
| Residential consumers | \$7.31 |
| Commercial consumers  | \$6.93 |
| Industrial consumers  | \$5.52 |
| Electric utilities    | \$3.91 |
| City Gate             | \$5.32 |

|                             |          |
|-----------------------------|----------|
| <b>Severance taxes paid</b> | \$54,651 |
| (2003, in thous. \$)        |          |

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | 2           | 3           | 5          |
| Gas          | 1           | 311         | 312        |
| Dry          | 21          | 18          | 39         |
| Service      | --          | --          | --         |
| <b>Total</b> | <b>24</b>   | <b>332</b>  | <b>356</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | 7.1         | 14.9         | 22.0         |
| Gas          | 0.4         | 463.5        | 463.9        |
| Dry          | 80.7        | 50.7         | 131.4        |
| Service      | --          | --           | --           |
| <b>Total</b> | <b>88.2</b> | <b>529.1</b> | <b>617.3</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 21 79.8

### Average rotary rigs active

3

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 21st      | 12th        |
| Production      | 18th      | 13th        |
| Reserves (2002) | 18th      | 13th        |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 3,800         |
| Flowing         | 368           |
| Artificial lift | 3,432         |
| Natural gas     | 8,500         |
| <b>Total</b>    | <b>12,300</b> |

### Average production

|              | thous. bbls.  | thous. b/d |
|--------------|---------------|------------|
| Crude oil    | 6,524         | 18         |
| NGL (est.)   | 6,109         | 17         |
| <b>Total</b> | <b>12,633</b> | <b>35</b>  |

### Natural gas marketed production

(MMcf)

236,987

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 1,717  |
| Natural gas (Mcf) | 27,881 |

### Average number of employees

|                                 |               |
|---------------------------------|---------------|
| Oil and natural gas extraction  | 2,164         |
| Refining                        | ND            |
| Transportation                  | 4,268         |
| Wholesale                       | 3,289         |
| Retail                          | 27,230        |
| <b>Total petroleum industry</b> | <b>36,951</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 21        | 8   | 29    |
| Production        | 6         | 4   | 10    |
| Net annual change | 15        | 4   | 19    |
| Proved reserves   | 61        | 47  | 108   |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 83                      | 442                | 520        |
| Production        | 28                      | 218                | 242        |
| Net annual change | 55                      | 224                | 278        |
| Proved reserves   | 214                     | 3,097              | 3,254      |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 70.21            | 299,433            | 8,983                     |
| Gas          | 138.89           | 207,064            | 55,079                    |
| Dry          | 82.50            | 320,455            | 10,575                    |
| <b>Total</b> | <b>114.35</b>    | <b>226,863</b>     | <b>74,638</b>             |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 3,428     |
| Stripper well abandonments    | 155       |
| Crude oil production in bbls. | 3,397,608 |
| Crude oil production b/d      | 9,309     |
| Percentage of oil production  | 47%       |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 18,273        |
| Secondary    | 17,557        |
| <b>Total</b> | <b>35,830</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 4,100      |
| Stripper well abandonments    | 65         |
| Natural gas production in Mcf | 55,623,429 |

### Federal Onshore Mineral Lease Royalties

|                        |                    |
|------------------------|--------------------|
| Oil                    | \$143,802          |
| Gas                    | \$957,876          |
| <b>Total Royalties</b> | <b>\$1,092,028</b> |

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1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799

## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 82 |
| With oil and/or gas production | 43 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1889 |
| Natural gas | 1923 |

### Year and amount of peak production

|                                 |      |
|---------------------------------|------|
| Crude oil — 65,119 thous. bbls. | 1970 |
| Natural gas — 181,238 MMcf      | 1981 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 21,533 |
| Natural gas | 21,727 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1986 | 25,500 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |               |             |
|--------------|---------------|-------------|
| Oil wells    | 8,295         | 31%         |
| Gas wells    | 2,412         | 9%          |
| Dry holes    | 16,163        | 60%         |
| <b>Total</b> | <b>26,870</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$)

\$18,457,015

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 2,628     | 126              | 2,754 | 9,286             |
| Production | 2,490     | 146              | 2,626 | 8,701             |



□ Counties with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$27.46 |
| Natural gas (\$/Mcf) | \$5.13  |

### Wellhead value of production

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Crude oil    | \$455,644          |
| Natural gas  | \$686,912          |
| <b>Total</b> | <b>\$1,142,556</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$9.74 |
| Commercial consumers  | \$7.74 |
| Industrial consumers  | \$6.35 |
| Electric utilities    | \$5.81 |
| City Gate             | \$6.19 |

### Severance taxes paid

(2003, in thous. \$)

\$43,413

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | 1           | 29          | 30         |
| Gas          | 7           | 173         | 180        |
| Dry          | 33          | 36          | 69         |
| Service      | --          | --          | --         |
| <b>Total</b> | <b>41</b>   | <b>238</b>  | <b>279</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory  | Development    | Total          |
|--------------|--------------|----------------|----------------|
| Oil          | 16.1         | 220.4          | 236.5          |
| Gas          | 41.2         | 1,199.9        | 1,241.1        |
| Dry          | 217.9        | 275.3          | 493.2          |
| Service      | --           | --             | --             |
| <b>Total</b> | <b>275.1</b> | <b>1,695.6</b> | <b>1,970.7</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

|                      |    |       |
|----------------------|----|-------|
| Footage (thous. ft.) | 33 | 215.0 |
|----------------------|----|-------|

### Average rotary rigs active

8

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 17th      | 16th        |
| Production      | 13th      | 17th        |
| Reserves (2002) | 14th      | 21st        |

### Number of producing wells

(12/31/03)

|                 |              |
|-----------------|--------------|
| Crude oil       | 2,890        |
| Flowing         | 460          |
| Artificial lift | 2,430        |
| Natural gas     | 1,355        |
| <b>Total</b>    | <b>4,245</b> |

### Average production

|              | thous. bbls.  | thous. b/d |
|--------------|---------------|------------|
| Crude oil    | 16,593        | 45         |
| NGL (est.)   | 8,562         | 23         |
| <b>Total</b> | <b>25,155</b> | <b>69</b>  |

### Natural gas marketed production

(MMcf)

133,901

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 5,742  |
| Natural gas (Mcf) | 98,820 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 3,760  |
| Refining                       | 145    |
| Transportation                 | 1,640  |
| Wholesale                      | 2,583  |
| Retail                         | 16,341 |
| Total petroleum industry       | 25,469 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 29        | 0   | 29    |
| Production        | 18        | 2   | 20    |
| Net annual change | 12        | -2  | 10    |
| Proved reserves   | 179       | 8   | 187   |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 12                      | 170                | 181        |
| Production        | 5                       | 94                 | 98         |
| Net annual change | 7                       | 76                 | 83         |
| Proved reserves   | 33                      | 713                | 744        |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 167.11           | 1,582,333          | 33,229                    |
| Gas          | 84.82            | 605,570            | 64,796                    |
| Dry          | 126.20           | 805,793            | 46,736                    |
| <b>Total</b> | <b>108.59</b>    | <b>778,285</b>     | <b>144,761</b>            |

### Stripper wells

|                               |         |
|-------------------------------|---------|
| Producing stripper wells      | 442     |
| Stripper well abandonments    | 109     |
| Crude oil production in bbls. | 562,190 |
| Crude oil production b/d      | 1,540   |
| Percentage of oil production  | 3%      |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 7,278         |
| Secondary    | 6,454         |
| <b>Total</b> | <b>13,732</b> |

### Natural gas stripper wells

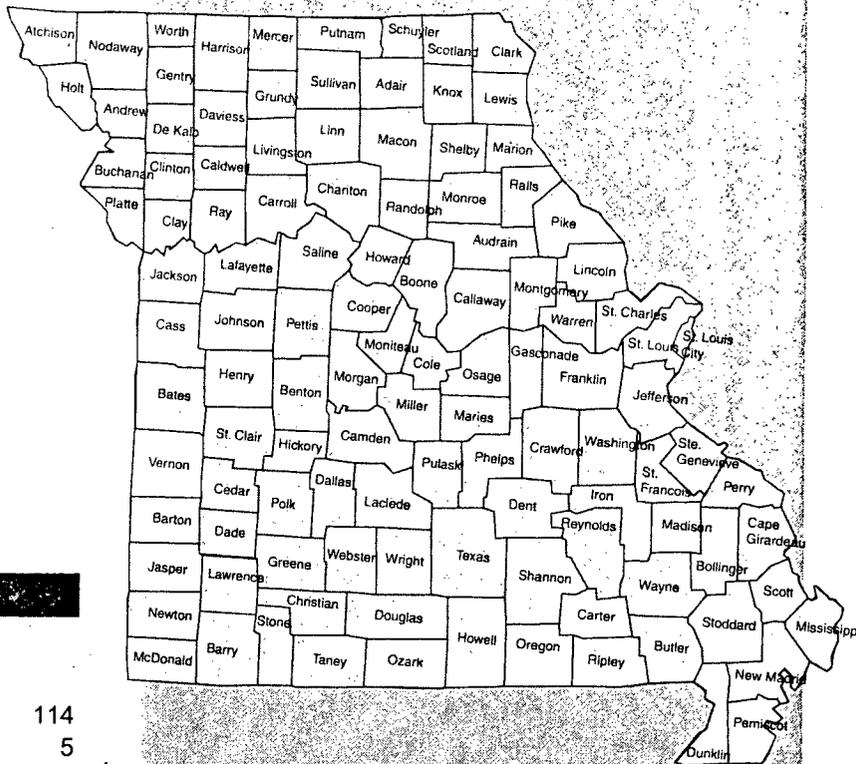
as of 1/1/03

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 260       |
| Stripper well abandonments    | 35        |
| Natural gas production in Mcf | 2,718,961 |

### Federal Onshore Mineral Lease Royalties

|                        |                     |
|------------------------|---------------------|
| Oil                    | \$1,204,575         |
| Gas                    | \$9,062,717         |
| <b>Total Royalties</b> | <b>\$10,271,177</b> |

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202-857-4722, FAX: 202-857-4799



□ Counties with oil and/or gas production

## Background Information

### Counties

|                                |     |
|--------------------------------|-----|
| Number of counties             | 114 |
| With oil and/or gas production | 5   |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1889 |
| Natural gas | 1887 |

### Year and amount of peak production

|                              |      |
|------------------------------|------|
| Crude oil — 285 thous. bbls. | 1984 |
| Natural gas — 1,369 MMcf     | 1938 |

### Deepest producing well (ft.)

|             |       |
|-------------|-------|
| Crude oil   | 3,680 |
| Natural gas | 765   |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1988 | 10,089 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |              |             |
|--------------|--------------|-------------|
| Oil wells    | 727          | 36%         |
| Gas wells    | 192          | 10%         |
| Dry holes    | 1,093        | 54%         |
| <b>Total</b> | <b>2,012</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$) \$92,549

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | NA        | NA               | NA    | NA                |
| Production | 7         | NA               | 7     | 15.1              |

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$26.45 |
| Natural gas (\$/Mcf) | NA      |

### Wellhead value of production

(2003, in thous. \$)

|              |                |
|--------------|----------------|
| Crude oil    | \$2,169        |
| Natural gas  | --             |
| <b>Total</b> | <b>\$2,169</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$9.49 |
| Commercial consumers  | \$8.59 |
| Industrial consumers  | \$7.93 |
| Electric utilities    | NA     |
| City Gate             | \$6.12 |

### Severance taxes paid

(2003, in thous. \$) --

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total |
|--------------|-------------|-------------|-------|
| Oil          | --          | 1           | 1     |
| Gas          | --          | --          | --    |
| Dry          | --          | --          | --    |
| Service      | --          | --          | --    |
| <b>Total</b> | --          | 1           | 1     |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development | Total |
|--------------|-------------|-------------|-------|
| Oil          | --          | 0.7         | 0.7   |
| Gas          | --          | --          | --    |
| Dry          | --          | --          | --    |
| Service      | --          | --          | --    |
| <b>Total</b> | --          | 0.7         | 0.7   |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 0

### Average rotary rigs active

0

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 23rd      | --          |
| Production      | 30th      | --          |
| Reserves (2002) | NA        | NA          |

### Number of producing wells

(12/31/03)

|                 |            |
|-----------------|------------|
| Crude oil       | 352        |
| Flowing         | 0          |
| Artificial lift | 352        |
| Natural gas     | 54         |
| <b>Total</b>    | <b>406</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 82           | --         |
| NGL (est.)   | --           | --         |
| <b>Total</b> | <b>82</b>    | <b>--</b>  |

### Natural gas marketed production

(MMcf)

--

### Average output per producing well

|                   |     |
|-------------------|-----|
| Crude oil (bbls.) | 233 |
| Natural gas (Mcf) | --  |

### Average number of employees

|                                 |               |
|---------------------------------|---------------|
| Oil and natural gas extraction  | 113           |
| Refining                        | 481           |
| Transportation                  | 3,510         |
| Wholesale                       | 2,571         |
| Retail                          | 25,733        |
| <b>Total petroleum industry</b> | <b>32,408</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | NA        | NA  | NA    |
| Production        | NA        | NA  | NA    |
| Net annual change | NA        | NA  | NA    |
| Proved reserves   | NA        | NA  | NA    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | NA                      | NA                 | NA         |
| Production        | NA                      | NA                 | NA         |
| Net annual change | NA                      | NA                 | NA         |
| Proved reserves   | NA                      | NA                 | NA         |

### Cost of drilling and equipping wells

| (Other)      | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 180.66           | 213,000            | 3,143                     |
| Gas          | 89.05            | 219,943            | 17,572                    |
| Dry          | 161.48           | 309,500            | 7,906                     |
| <b>Total</b> | <b>93.19</b>     | <b>225,585</b>     | <b>28,621</b>             |

### Stripper wells

|                               |        |
|-------------------------------|--------|
| Producing stripper wells      | 364    |
| Stripper well abandonments    | 4      |
| Crude oil production in bbls. | 95,071 |
| Crude oil production b/d      | 260    |
| Percentage of oil production  | 100%   |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |              |
|--------------|--------------|
| Primary      | 1,305        |
| Secondary    | 1,280        |
| <b>Total</b> | <b>2,585</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |    |
|-------------------------------|----|
| Producing stripper wells      | -- |
| Stripper well abandonments    | -- |
| Natural gas production in Mcf | -- |

### Federal Onshore Mineral Lease Royalties

|                        |                    |
|------------------------|--------------------|
| Oil                    | --                 |
| Gas                    | --                 |
| <b>Total Royalties</b> | <b>\$2,995,999</b> |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799



**Background Information**

**Counties**

|                                |    |
|--------------------------------|----|
| Number of counties             | 56 |
| With oil and/or gas production | 33 |

**First year of production**

|             |      |
|-------------|------|
| Crude oil   | 1916 |
| Natural gas | 1915 |

**Year and amount of peak production**

|                                 |      |
|---------------------------------|------|
| Crude oil — 48,460 thous. bbls. | 1968 |
| Natural gas — 86,075 MMcf       | 2002 |

**Deepest producing well (ft.)**

|             |        |
|-------------|--------|
| Crude oil   | 18,016 |
| Natural gas | 5,800  |

**Year and depth of deepest well drilled (ft.)**

|      |        |
|------|--------|
| 1999 | 18,016 |
|------|--------|

**Cumulative number of total wells drilled**

|  |               |             |  |
|--|---------------|-------------|--|
| as of 12/31/03 (excluding service wells) |               |             |  |
| Oil wells                                | 11,904        | 35%         |  |
| Gas wells                                | 7,344         | 21%         |  |
| Dry holes                                | 15,058        | 44%         |  |
| <b>Total</b>                             | <b>34,306</b> | <b>100%</b> |  |

**Cumulative crude oil wellhead value**

as of 12/31/03 (thous. \$) \$14,963,179

**Cumulative production & new reserves**

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 1,782     | 46               | 1,828 | 3,914             |
| Production | 1,530     | 42               | 1,572 | 3,030             |

□ Counties with oil and/or gas production

**Value of Oil and Gas**

**Average wellhead price**

|                      |         |
|----------------------|---------|
| (2003)               |         |
| Crude oil (\$/bbl.)  | \$28.66 |
| Natural gas (\$/Mcf) | \$3.73  |

**Wellhead value of production**

|                      |                  |
|----------------------|------------------|
| (2003, in thous. \$) |                  |
| Crude oil            | \$556,491        |
| Natural gas          | \$320,881        |
| <b>Total</b>         | <b>\$877,372</b> |

**Average natural gas price**

|                       |        |
|-----------------------|--------|
| (2003, \$/Mcf)        |        |
| Residential consumers | \$7.08 |
| Commercial consumers  | \$7.08 |
| Industrial consumers  | \$4.41 |
| Electric utilities    | \$5.89 |
| City Gate             | \$5.04 |

**Severance taxes paid**

(2003, in thous. \$) \$50,304

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | 64          | 161         | 225        |
| Gas          | 57          | 436         | 493        |
| Dry          | 59          | 41          | 100        |
| Service      | --          | 21          | 21         |
| <b>Total</b> | <b>180</b>  | <b>659</b>  | <b>839</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory    | Development    | Total          |
|--------------|----------------|----------------|----------------|
| Oil          | 750.0          | 989.7          | 1,739.7        |
| Gas          | 117.9          | 560.0          | 677.9          |
| Dry          | 200.5          | 132.3          | 332.8          |
| Service      | --             | 61.5           | 61.5           |
| <b>Total</b> | <b>1,068.4</b> | <b>1,743.5</b> | <b>2,811.9</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 116 662.1

### Average rotary rigs active

14

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 8th       | 10th        |
| Production      | 12th      | 20th        |
| Reserves (2002) | 10th      | 20th        |

### Number of producing wells

(12/31/03)

|                 |              |
|-----------------|--------------|
| Crude oil       | 2,868        |
| Flowing         | 125          |
| Artificial lift | 2,743        |
| Natural gas     | 3,932        |
| <b>Total</b>    | <b>6,800</b> |

### Average production

|              | thous. bbls.  | thous. b/d |
|--------------|---------------|------------|
| Crude oil    | 19,417        | 53         |
| NGL (est.)   | 474           | 1          |
| <b>Total</b> | <b>19,891</b> | <b>55</b>  |

### Natural gas marketed production

(MMcf)

86,027

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 6,770  |
| Natural gas (Mcf) | 21,879 |

### Average number of employees

|                                 |              |
|---------------------------------|--------------|
| Oil and natural gas extraction  | 1,291        |
| Refining                        | 914          |
| Transportation                  | 505          |
| Wholesale                       | 721          |
| Retail                          | 4,824        |
| <b>Total petroleum industry</b> | <b>8,255</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 46        | 2   | 48    |
| Production        | 18        | 1   | 19    |
| Net annual change | 28        | 1   | 29    |
| Proved reserves   | 288       | 6   | 294   |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 17                      | 68                 | 85         |
| Production        | 8                       | 70                 | 77         |
| Net annual change | 9                       | -2                 | 8          |
| Proved reserves   | 94                      | 820                | 908        |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 175.90           | 2,033,596          | 115,915                   |
| Gas          | 92.94            | 177,929            | 49,820                    |
| Dry          | 146.45           | 413,607            | 34,743                    |
| <b>Total</b> | <b>139.97</b>    | <b>476,197</b>     | <b>200,479</b>            |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 2,274     |
| Stripper well abandonments    | 65        |
| Crude oil production in bbls. | 1,842,960 |
| Crude oil production b/d      | 5,049     |
| Percentage of oil production  | 11%       |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 28,525        |
| Secondary    | 34,865        |
| <b>Total</b> | <b>63,390</b> |

### Natural gas stripper wells

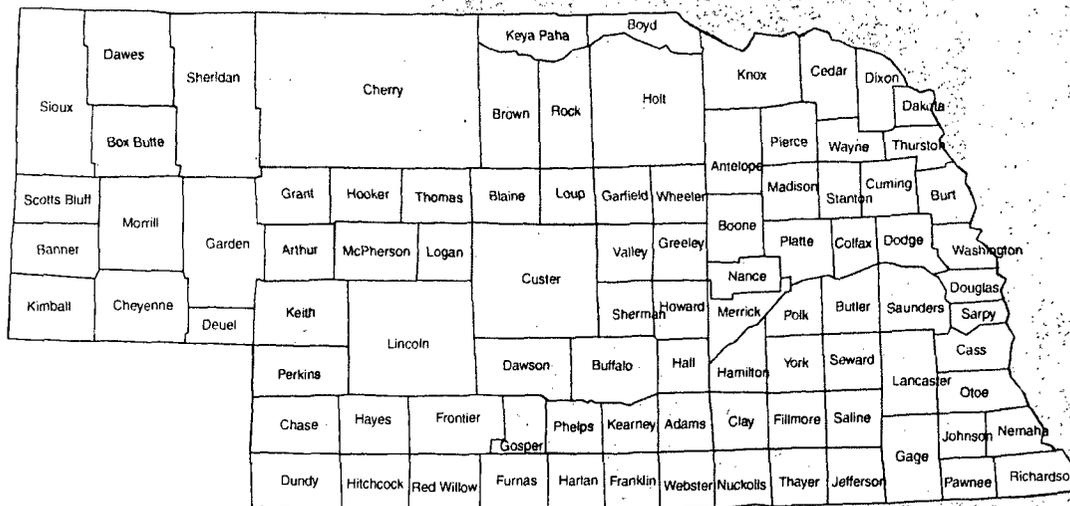
as of 1/1/03

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 3,533      |
| Stripper well abandonments    | 59         |
| Natural gas production in Mcf | 25,286,348 |

### Federal Onshore Mineral Lease Royalties

|                        |                     |
|------------------------|---------------------|
| Oil                    | \$9,149,232         |
| Gas                    | \$6,121,055         |
| <b>Total Royalties</b> | <b>\$50,035,367</b> |

For more information please contact: Information Services  
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1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799



## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 93 |
| With oil and/or gas production | 18 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1939 |
| Natural gas | 1950 |

### Year and amount of peak production

|                                 |      |
|---------------------------------|------|
| Crude oil — 24,894 thous. bbls. | 1962 |
| Natural gas — 15,743 MMcf       | 1961 |

### Deepest producing well (ft.)

|             |       |
|-------------|-------|
| Crude oil   | 8,630 |
| Natural gas | 5,832 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1997 | 13,128 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |               |             |
|--------------|---------------|-------------|
| Oil wells    | 5,569         | 30%         |
| Gas wells    | 311           | 2%          |
| Dry holes    | 12,403        | 68%         |
| <b>Total</b> | <b>18,283</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$)

\$4,013,229

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 508       | NA               | 508   | NA                |
| Production | 497       | NA               | 497   | NA                |

□ Counties with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$28.63 |
| Natural gas (\$/Mcf) | \$3.17  |

### Wellhead value of production

(2003, in thous. \$)

|              |                 |
|--------------|-----------------|
| Crude oil    | \$78,876        |
| Natural gas  | \$4,609         |
| <b>Total</b> | <b>\$83,485</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$7.83 |
| Commercial consumers  | \$6.90 |
| Industrial consumers  | \$5.86 |
| Electric utilities    | \$5.13 |
| City Gate             | \$5.70 |

### Severance taxes paid

(2003, in thous. \$)

\$1,845

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total     |
|--------------|-------------|-------------|-----------|
| Oil          | 2           | 4           | 6         |
| Gas          | --          | 4           | 4         |
| Dry          | 20          | 8           | 28        |
| Service      | --          | --          | --        |
| <b>Total</b> | <b>22</b>   | <b>16</b>   | <b>38</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development | Total        |
|--------------|-------------|-------------|--------------|
| Oil          | 8.5         | 17.0        | 25.5         |
| Gas          | --          | 16.3        | 16.3         |
| Dry          | 79.4        | 39.1        | 118.5        |
| Service      | --          | --          | --           |
| <b>Total</b> | <b>87.9</b> | <b>72.4</b> | <b>160.3</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

|                      |      |
|----------------------|------|
|                      | 15   |
| Footage (thous. ft.) | 57.0 |

### Average rotary rigs active

0

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 20th      | 23rd        |
| Production      | 21st      | 27th        |
| Reserves (2002) | 22nd      | NA          |

### Number of producing wells

(12/31/03)

|                 |              |
|-----------------|--------------|
| Crude oil       | 1,097        |
| Flowing         | 0            |
| Artificial lift | 1,097        |
| Natural gas     | 110          |
| <b>Total</b>    | <b>1,207</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 2,755        | 8          |
| NGL (est.)   | 17           | --         |
| <b>Total</b> | <b>2,772</b> | <b>8</b>   |

### Natural gas marketed production

(MMcf)

1,454

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 2,511  |
| Natural gas (Mcf) | 13,218 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 241    |
| Refining                       | ND     |
| Transportation                 | 1,608  |
| Wholesale                      | 424    |
| Retail                         | 9,281  |
| Total petroleum industry       | 11,554 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 6         | NA  | 6     |
| Production        | 3         | NA  | 3     |
| Net annual change | 3         | NA  | 3     |
| Proved reserves   | 18        | NA  | 18    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | NA                      | NA                 | NA         |
| Production        | NA                      | NA                 | NA         |
| Net annual change | NA                      | NA                 | NA         |
| Proved reserves   | NA                      | NA                 | NA         |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 121.88           | 585,444            | 5,269                     |
| Gas          | 74.12            | 282,500            | 1,130                     |
| Dry          | 61.32            | 297,063            | 4,753                     |
| <b>Total</b> | <b>82.01</b>     | <b>384,552</b>     | <b>11,152</b>             |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 1,451     |
| Stripper well abandonments    | 100       |
| Crude oil production in bbls. | 1,717,983 |
| Crude oil production b/d      | 4,707     |
| Percentage of oil production  | 62%       |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |              |
|--------------|--------------|
| Primary      | 2,495        |
| Secondary    | 4,490        |
| <b>Total</b> | <b>6,985</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |         |
|-------------------------------|---------|
| Producing stripper wells      | 99      |
| Stripper well abandonments    | 8       |
| Natural gas production in Mcf | 750,809 |

### Federal Onshore Mineral Lease Royalties

|                        |                  |
|------------------------|------------------|
| Oil                    | \$100,216        |
| Gas                    | -                |
| <b>Total Royalties</b> | <b>\$100,655</b> |

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1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799

## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 17 |
| With oil and/or gas production | 2  |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1954 |
| Natural gas | NA   |

### Year and amount of peak production

|                                |      |
|--------------------------------|------|
| Crude oil — 3,230 thous. bbls. | 1988 |
| Natural gas —                  | NA   |

### Deepest producing well (ft.)

|             |       |
|-------------|-------|
| Crude oil   | 8,694 |
| Natural gas | NA    |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1980 | 19,562 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |            |             |
|--------------|------------|-------------|
| Oil wells    | 107        | 19%         |
| Gas wells    | 1          | 0%          |
| Dry holes    | 473        | 81%         |
| <b>Total</b> | <b>581</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

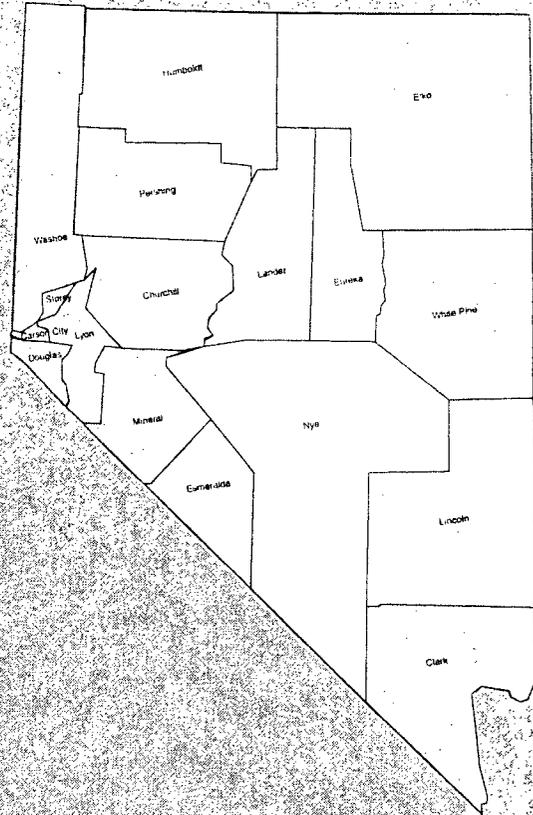
as of 12/31/03 (thous. \$)

\$788,628

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude<br>Oil | NGL<br>(mill. bbls) | Total | Natural<br>Gas (Bcf) |
|------------|--------------|---------------------|-------|----------------------|
| Reserves   | NA           | NA                  | NA    | NA                   |
| Production | NA           | NA                  | NA    | NA                   |



□ Counties with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$24.54 |
| Natural gas (\$/Mcf) | --      |

### Wellhead value of production

(2003, in thous. \$)

|              |                 |
|--------------|-----------------|
| Crude oil    | \$12,098        |
| Natural gas  | --              |
| <b>Total</b> | <b>\$12,098</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$8.96 |
| Commercial consumers  | \$7.29 |
| Industrial consumers  | \$8.68 |
| Electric utilities    | \$5.31 |
| City Gate             | \$5.67 |

### Severance taxes paid

(2003, in thous. \$)

\$248

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total    |
|--------------|-------------|-------------|----------|
| Oil          | --          | --          | --       |
| Gas          | --          | --          | --       |
| Dry          | 2           | --          | 2        |
| Service      | --          | --          | --       |
| <b>Total</b> | <b>2</b>    | <b>--</b>   | <b>2</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | --          | --          | --         |
| Gas          | --          | --          | --         |
| Dry          | 5.2         | --          | 5.2        |
| Service      | --          | --          | --         |
| <b>Total</b> | <b>5.2</b>  | <b>--</b>   | <b>5.2</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

|                      |   |
|----------------------|---|
| Footage (thous. ft.) | 2 |
|----------------------|---|

### Average rotary rigs active

1

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | --        | --          |
| Production      | 27th      | 33rd        |
| Reserves (2002) | NA        | NA          |

### Number of producing wells

(12/31/03)

|                 |           |
|-----------------|-----------|
| Crude oil       | 63        |
| Flowing         | 22        |
| Artificial lift | 41        |
| Natural gas     | 4         |
| <b>Total</b>    | <b>69</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 493          | 1          |
| NGL (est.)   | --           | --         |
| <b>Total</b> | <b>493</b>   | <b>1</b>   |

### Natural gas marketed production

(MMcf)

NA

### Average output per producing well

|                   |       |
|-------------------|-------|
| Crude oil (bbls.) | 7,825 |
| Natural gas (Mcf) | NA    |

### Average number of employees

|                                |       |
|--------------------------------|-------|
| Oil and natural gas extraction | 139   |
| Refining                       | 141   |
| Transportation                 | ND    |
| Wholesale                      | 476   |
| Retail                         | 8,475 |
| Total petroleum industry       | 9,231 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | NA        | NA  | NA    |
| Production        | NA        | NA  | NA    |
| Net annual change | NA        | NA  | NA    |
| Proved reserves   | NA        | NA  | NA    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | NA                      | NA                 | NA         |
| Production        | NA                      | NA                 | NA         |
| Net annual change | NA                      | NA                 | NA         |
| Proved reserves   | NA                      | NA                 | NA         |

### Cost of drilling and equipping wells

| (Other)      | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 180.66           | 213,000            | 3,143                     |
| Gas          | 89.05            | 219,943            | 17,572                    |
| Dry          | 161.48           | 309,500            | 7,906                     |
| <b>Total</b> | <b>93.19</b>     | <b>225,585</b>     | <b>28,621</b>             |

### Stripper wells

|                               |   |
|-------------------------------|---|
| Producing stripper wells      | 0 |
| Stripper well abandonments    | 0 |
| Crude oil production in bbls. | 0 |
| Crude oil production b/d      | 0 |
| Percentage of oil production  | 0 |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |          |
|--------------|----------|
| Primary      | 0        |
| Secondary    | 0        |
| <b>Total</b> | <b>0</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |   |
|-------------------------------|---|
| Producing stripper wells      | 0 |
| Stripper well abandonments    | 0 |
| Natural gas production in Mcf | 0 |

### Federal Onshore Mineral Lease Royalties

|                        |                    |
|------------------------|--------------------|
| Oil                    | \$964,996          |
| Gas                    | -                  |
| <b>Total Royalties</b> | <b>\$5,186,475</b> |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300 Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799

## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 33 |
| With oil and/or gas production | 9  |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1911 |
| Natural gas | 1924 |

### Year and amount of peak production

|                                  |      |
|----------------------------------|------|
| Crude oil — 129,227 thous. bbls. | 1969 |
| Natural gas — 1,689,125 MMcf     | 2001 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 17,652 |
| Natural gas | 17,515 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1968 | 22,926 |
|------|--------|

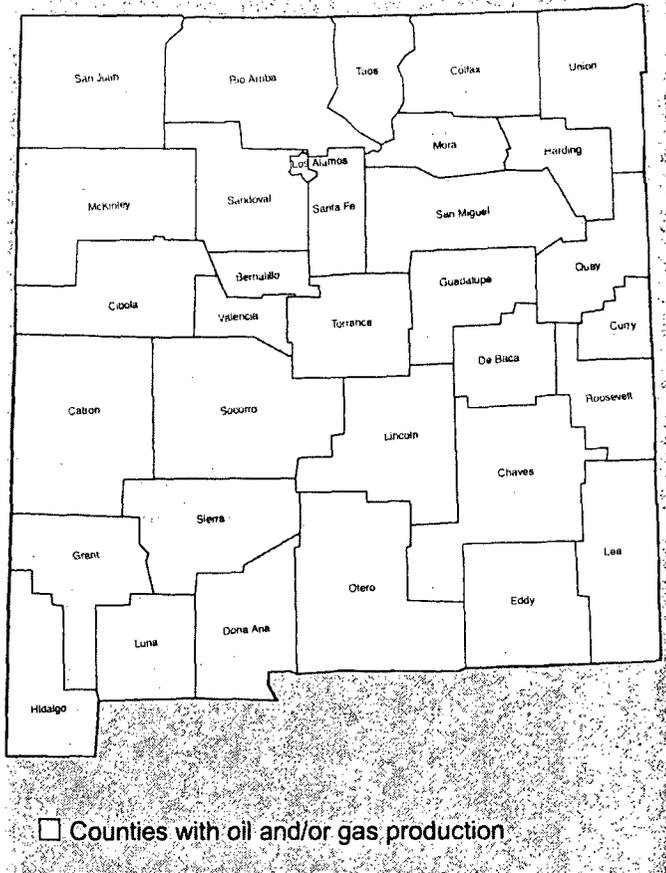
### Cumulative number of total wells drilled

|  |               |             |  |
|--|---------------|-------------|--|
| as of 12/31/03 (excluding service wells) |               |             |  |
| Oil wells                                | 38,129        | 48%         |  |
| Gas wells                                | 26,628        | 34%         |  |
| Dry holes                                | 14,534        | 18%         |  |
| <b>Total</b>                             | <b>79,291</b> | <b>100%</b> |  |

|  |              |
|--|--------------|
| <b>Cumulative crude oil wellhead value</b> | \$48,557,765 |
| as of 12/31/03 (thous. \$)                 |              |

### Cumulative production & new reserves

|            |  |                  |       |                   |
|------------|--|------------------|-------|-------------------|
|            | production as of 12/31/03, reserves as of 12/31/02 |                  |       |                   |
|            | Crude Oil  | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
| Reserves   | 6,895  | 2,929            | 9,824 | 75,349            |
| Production | 6,312  | 2,145            | 8,457 | 59,441            |



## Value of Oil and Gas

### Average wellhead price

|                      |         |
|----------------------|---------|
| (2003)               |         |
| Crude oil (\$/bbl.)  | \$29.52 |
| Natural gas (\$/Mcf) | \$4.56  |

### Wellhead value of production

|                      |                    |
|----------------------|--------------------|
| (2003, in thous. \$) |                    |
| Crude oil            | \$1,965,264        |
| Natural gas          | \$7,314,308        |
| <b>Total</b>         | <b>\$9,279,572</b> |

### Average natural gas price

|                       |        |
|-----------------------|--------|
| (2003, \$/Mcf)        |        |
| Residential consumers | \$8.41 |
| Commercial consumers  | \$6.89 |
| Industrial consumers  | \$5.48 |
| Electric utilities    | NA     |
| City Gate             | \$4.78 |

|                             |           |
|-----------------------------|-----------|
| <b>Severance taxes paid</b> | \$571,862 |
| (2003, in thous. \$)        |           |

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | 6           | 425          | 431          |
| Gas          | 34          | 1,028        | 1,062        |
| Dry          | 35          | 67           | 102          |
| Service      | --          | 5            | 5            |
| <b>Total</b> | <b>75</b>   | <b>1,525</b> | <b>1,600</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory  | Development    | Total          |
|--------------|--------------|----------------|----------------|
| Oil          | 30.5         | 2,628.2        | 2,658.7        |
| Gas          | 272.8        | 5,898.4        | 6,171.2        |
| Dry          | 246.0        | 407.7          | 653.7          |
| Service      | --           | 38.5           | 38.5           |
| <b>Total</b> | <b>549.3</b> | <b>8,972.8</b> | <b>9,522.1</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

|                      |    |
|----------------------|----|
| Footage (thous. ft.) | 43 |
|----------------------|----|

### Average rotary rigs active

65

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 5th       | 6th         |
| Production      | 6th       | 3rd         |
| Reserves (2002) | 5th       | 4th         |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 27,527        |
| Flowing         | 3,217         |
| Artificial lift | 24,310        |
| Natural gas     | 36,437        |
| <b>Total</b>    | <b>63,964</b> |

### Average production

|              | thous. bbls.   | thous. b/d |
|--------------|----------------|------------|
| Crude oil    | 66,574         | 182        |
| NGL (est.)   | 57,693         | 158        |
| <b>Total</b> | <b>124,267</b> | <b>340</b> |

### Natural gas marketed production

(MMcf)

1,604,015

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 2,419  |
| Natural gas (Mcf) | 44,022 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 10,571 |
| Refining                       | ND     |
| Transportation                 | 1,405  |
| Wholesale                      | 1,959  |
| Retail                         | 7,634  |
| Total petroleum industry       | 21,569 |

Compiled by IPAA July 2005

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 59        | 47  | 106   |
| Production        | 64        | 82  | 146   |
| Net annual change | -5        | -35 | -40   |
| Proved reserves   | 710       | 838 | 1,548 |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 272                     | 1,256              | 1,430      |
| Production        | 237                     | 1,397              | 1,524      |
| Net annual change | 35                      | -141               | -94        |
| Proved reserves   | 1,482                   | 16,971             | 17,320     |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 100.81           | 668,013            | 211,760                   |
| Gas          | 117.58           | 717,634            | 557,602                   |
| Dry          | 183.37           | 1,280,110          | 93,448                    |
| <b>Total</b> | <b>117.35</b>    | <b>739,340</b>     | <b>862,810</b>            |

### Stripper wells

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 13,379     |
| Stripper well abandonments    | 217        |
| Crude oil production in bbls. | 13,386,587 |
| Crude oil production b/d      | 36,676     |
| Percentage of oil production  | 20%        |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 22,016        |
| Secondary    | 16,609        |
| <b>Total</b> | <b>38,625</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 9,232      |
| Stripper well abandonments    | 172        |
| Natural gas production in Mcf | 81,059,390 |

### Federal Onshore Mineral Lease Royalties

|                        |                      |
|------------------------|----------------------|
| Oil                    | \$115,335,572        |
| Gas                    | \$278,647,389        |
| <b>Total Royalties</b> | <b>\$460,119,172</b> |

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202-857-4722, FAX: 202-857-4799



## 2003 Industry Statistics

### Number of wells drilled\*

|              | Exploratory | Development | Total     |
|--------------|-------------|-------------|-----------|
| Oil          | 0           | 32          | 32        |
| Gas          | 14          | 30          | 44        |
| Dry          | 19          | 2           | 21        |
| Service      | --          | 2           | 2         |
| <b>Total</b> | <b>33</b>   | <b>64</b>   | <b>99</b> |

### Total footage drilled\*

(thous. ft.)

|              | Exploratory  | Development  | Total        |
|--------------|--------------|--------------|--------------|
| Oil          | 0.5          | 45.4         | 45.9         |
| Gas          | 47.0         | 70.5         | 117.5        |
| Dry          | 137.3        | 12.2         | 149.5        |
| Service      | --           | 5.4          | 5.4          |
| <b>Total</b> | <b>184.8</b> | <b>133.5</b> | <b>318.3</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled\*

|                      |   |
|----------------------|---|
| Footage (thous. ft.) | 9 |
|----------------------|---|

### Average rotary rigs active

3

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | --        | --          |
| Production      | 29th      | 23rd        |
| Reserves (2002) | NA        | 23rd        |

### Number of producing wells

(12/31/03)

|                 |              |
|-----------------|--------------|
| Crude oil       | 2,763        |
| Flowing         | 0            |
| Artificial lift | 2,763        |
| Natural gas     | 5,723        |
| <b>Total</b>    | <b>8,486</b> |

### Average production

|              | thous. bbls. | thous. b/d  |
|--------------|--------------|-------------|
| Crude oil    | 157.5        | 0.43        |
| NGL (est.)   | --           | --          |
| <b>Total</b> | <b>157.5</b> | <b>0.43</b> |

### Natural gas marketed production

(MMcf)

35,044

### Average output per producing well

|                   |       |
|-------------------|-------|
| Crude oil (bbls.) | 57    |
| Natural gas (Mcf) | 6,314 |

### Average number of employees

|                                 |               |
|---------------------------------|---------------|
| Oil and natural gas extraction  | 812           |
| Refining                        | 769           |
| Transportation                  | 4,188         |
| Wholesale                       | 16,167        |
| Retail                          | 29,747        |
| <b>Total petroleum industry</b> | <b>51,683</b> |

Compiled by IPAA July 2005

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | NA        | NA  | NA    |
| Production        | NA        | NA  | NA    |
| Net annual change | NA        | NA  | NA    |
| Proved reserves   | NA        | NA  | NA    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | -7                      | 39                 | 32         |
| Production        | 0                       | 35                 | 35         |
| Net annual change | -7                      | 4                  | -3         |
| Proved reserves   | 0                       | 315                | 315        |

### Cost of drilling and equipping wells

| (Appalachian) | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|---------------|------------------|--------------------|---------------------------|
| Oil           | 51.61            | 157,180            | 105,939                   |
| Gas           | 51.31            | 208,774            | 484,148                   |
| Dry           | 50.77            | 203,109            | 24,170                    |
| <b>Total</b>  | <b>51.34</b>     | <b>197,383</b>     | <b>614,257</b>            |

### Stripper wells

|                               |         |
|-------------------------------|---------|
| Producing stripper wells      | 2,758   |
| Stripper well abandonments    | 65      |
| Crude oil production in bbls. | 174,766 |
| Crude oil production b/d      | 479     |
| Percentage of oil production  | 100%    |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |              |
|--------------|--------------|
| Primary      | 808          |
| Secondary    | 261          |
| <b>Total</b> | <b>1,069</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 5,442      |
| Stripper well abandonments    | 41         |
| Natural gas production in Mcf | 10,637,283 |

### Federal Onshore Mineral Lease Royalties

|                        |                 |
|------------------------|-----------------|
| Oil                    | --              |
| Gas                    | \$11,402        |
| <b>Total Royalties</b> | <b>\$11,745</b> |

\* State data

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202-857-4722, FAX: 202-857-4799



**Background Information**

**Counties**

|                                |    |
|--------------------------------|----|
| Number of counties             | 53 |
| With oil and/or gas production | 17 |

**First year of production**

|             |      |
|-------------|------|
| Crude oil   | 1951 |
| Natural gas | 1907 |

**Year and amount of peak production**

|                                 |      |
|---------------------------------|------|
| Crude oil — 52,654 thous. bbls. | 1984 |
| Natural gas — 72,633 MMcf       | 1985 |

**Deepest producing well (ft.)**

|                                    |        |
|------------------------------------|--------|
| Crude oil (18,262 MD horizontal)   | 14,352 |
| Natural gas (16,510 MD horizontal) | 14,792 |

**Year and depth of deepest well drilled (ft.)**

|                                  |        |
|----------------------------------|--------|
| 1978 (18,262 MD horizontal-2000) | 15,380 |
|----------------------------------|--------|

**Cumulative number of total wells drilled\***

as of 12/31/03 (excluding service wells)

|              |               |             |
|--------------|---------------|-------------|
| Oil wells    | 7,497         | 54%         |
| Gas wells    | 209           | 2%          |
| Dry holes    | 6,191         | 44%         |
| <b>Total</b> | <b>13,897</b> | <b>100%</b> |

**Cumulative crude oil wellhead value**

as of 12/31/03 (thous. \$) \$22,123,837

**Cumulative production & new reserves**

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 1,732     | 223              | 1,955 | 2,557             |
| Production | 1,431     | 158              | 1,589 | 2,152             |

Counties with oil and/or gas production

**Value of Oil and Gas**

**Average wellhead price**

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$29.27 |
| Natural gas (\$/Mcf) | \$3.53  |

**Wellhead value of production**

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Crude oil    | \$841,893          |
| Natural gas  | \$204,338          |
| <b>Total</b> | <b>\$1,046,231</b> |

**Average natural gas price**

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$7.25 |
| Commercial consumers  | \$6.89 |
| Industrial consumers  | \$6.22 |
| Electric utilities    | \$6.84 |
| City Gate             | \$5.79 |

**Severance taxes paid**

(2003, in thous. \$)

\$66,846

## 2003 Industry Statistics

### Number of wells drilled\*

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | 2           | 88          | 90         |
| Gas          | --          | 11          | 11         |
| Dry          | 3           | 8           | 11         |
| Service      | --          | 7           | 7          |
| <b>Total</b> | <b>5</b>    | <b>114</b>  | <b>119</b> |

### Total footage drilled\*

(thous. ft.)

|              | Exploratory | Development    | Total          |
|--------------|-------------|----------------|----------------|
| Oil          | 19.9        | 1,387.1        | 1,407.0        |
| Gas          | --          | 18.4           | 18.4           |
| Dry          | 25.2        | 72.0           | 97.2           |
| Service      | --          | 108.6          | 108.6          |
| <b>Total</b> | <b>45.1</b> | <b>1,586.1</b> | <b>1,631.2</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 6  
19.9

### Average rotary rigs active

14

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 10th      | --          |
| Production      | 10th      | 22nd        |
| Reserves (2002) | 9th       | 22nd        |

### Number of producing wells\*

(12/31/03)

|                 |              |
|-----------------|--------------|
| Crude oil       | 3,118        |
| Flowing         | 153          |
| Artificial lift | 2,965        |
| Natural gas     | 94           |
| <b>Total</b>    | <b>3,212</b> |

### Average production\*

|              | thous. bbls.  | thous. b/d |
|--------------|---------------|------------|
| Crude oil    | 28,763        | 79         |
| NGL (est.)   | 647           | 2          |
| <b>Total</b> | <b>29,410</b> | <b>81</b>  |

### Natural gas marketed production\*

(MMcf)

57,886

### Average output per producing well\*

|                   |         |
|-------------------|---------|
| Crude oil (bbls.) | 9,432   |
| Natural gas (Mcf) | 154,511 |

### Average number of employees

|                                |       |
|--------------------------------|-------|
| Oil and natural gas extraction | 1,763 |
| Refining                       | ND    |
| Transportation                 | 1,193 |
| Wholesale                      | 92    |
| Retail                         | 3,966 |
| Total petroleum industry       | 7,014 |

Compiled by IPAA July 2005

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 47        | -5  | 42    |
| Production        | 33        | 5   | 38    |
| Net annual change | 14        | -10 | 4     |
| Proved reserves   | 342       | 47  | 389   |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 89                      | -1                 | 81         |
| Production        | 44                      | 15                 | 53         |
| Net annual change | 45                      | -16                | 28         |
| Proved reserves   | 315                     | 209                | 471        |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 203.51           | 2,563,651          | 220,474                   |
| Gas          | 137.05           | 783,000            | 2,349                     |
| Dry          | 130.78           | 950,353            | 16,156                    |
| <b>Total</b> | <b>195.23</b>    | <b>2,254,519</b>   | <b>238,979</b>            |

### Stripper wells\*

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 1,394     |
| Stripper well abandonments    | 38        |
| Crude oil production in bbls. | 2,288,191 |
| Crude oil production b/d      | 6,269     |
| Percentage of oil production  | 8%        |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 25,540        |
| Secondary    | 25,035        |
| <b>Total</b> | <b>50,575</b> |

### Natural gas stripper wells\*

as of 1/1/03

|                               |         |
|-------------------------------|---------|
| Producing stripper wells      | 67      |
| Stripper well abandonments    | 2       |
| Natural gas production in Mcf | 762,017 |

### Federal Onshore Mineral Lease Royalties

|                        |                     |
|------------------------|---------------------|
| Oil                    | \$14,983,400        |
| Gas                    | \$1,713,680         |
| <b>Total Royalties</b> | <b>\$19,130,877</b> |

\* State data

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## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 88 |
| With oil and/or gas production | 71 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1860 |
| Natural gas | 1884 |

### Year and amount of peak production

|                                 |      |
|---------------------------------|------|
| Crude oil — 23,941 thous. bbls. | 1896 |
| Natural gas — 186,480 MMcf      | 1984 |

### Deepest producing well (ft.)

|             |       |
|-------------|-------|
| Crude oil   | 7,805 |
| Natural gas | 8,953 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1967 | 11,442 |
|------|--------|

### Cumulative number of total wells drilled\*

as of 12/31/03 (excluding service wells)

|              |                |             |
|--------------|----------------|-------------|
| Oil wells    | 139,968        | 52%         |
| Gas wells    | 88,139         | 33%         |
| Dry holes    | 42,201         | 15%         |
| <b>Total</b> | <b>270,308</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$)

\$7,885,721

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude<br>Oil | NGL<br>(mill. bbls) | Total | Natural<br>Gas (Bcf) |
|------------|--------------|---------------------|-------|----------------------|
| Reserves   | 1,128        | NA                  | 1,128 | 9,453                |
| Production | 1,079        | NA                  | 1,079 | 8,655                |



## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$27.64 |
| Natural gas (\$/Mcf) | \$5.90  |

### Wellhead value of production

(2003, in thous. \$)

|              |                  |
|--------------|------------------|
| Crude oil    | \$159,091        |
| Natural gas  | \$552,387        |
| <b>Total</b> | <b>\$711,478</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$9.16 |
| Commercial consumers  | \$8.12 |
| Industrial consumers  | \$8.06 |
| Electric utilities    | \$6.19 |
| City Gate             | \$6.54 |

### Severance taxes paid

(2003, in thous. \$)

\$2,900

## 2003 Industry Statistics

### Number of wells drilled\*

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | 7           | 150         | 157        |
| Gas          | 12          | 271         | 283        |
| Dry          | 29          | 45          | 74         |
| Service      | --          | 2           | 2          |
| <b>Total</b> | <b>48</b>   | <b>466</b>  | <b>516</b> |

### Total footage drilled\*

(thous. ft.)

|              | Exploratory  | Development    | Total         |
|--------------|--------------|----------------|---------------|
| Oil          | 1.4          | 355.8          | 357.2         |
| Gas          | 80.5         | 1,799.1        | 1879.3        |
| Dry          | 161.7        | 336.3          | 528           |
| Service      | --           | 7.3            | 7.3           |
| <b>Total</b> | <b>243.2</b> | <b>2,528.5</b> | <b>2771.8</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled\*

|                      |      |
|----------------------|------|
| Footage (thous. ft.) | 23.2 |
|----------------------|------|

### Average rotary rigs active\*

8

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 7th       | 17th        |
| Production      | 19th      | 18th        |
| Reserves (2002) | 17th      | 19th        |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 29,039        |
| Flowing         | 128           |
| Artificial lift | 28,911        |
| Natural gas     | 33,828        |
| <b>Total</b>    | <b>62,867</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 5,647        | 16         |
| NGL (est.)   | 140          | --         |
| <b>Total</b> | <b>5,787</b> | <b>16</b>  |

### Natural gas marketed production

(MMcf)

93,641

### Average output per producing well\*

|                   |       |
|-------------------|-------|
| Crude oil (bbls.) | 194   |
| Natural gas (Mcf) | 2,768 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 4,580  |
| Refining                       | 2,097  |
| Transportation                 | 4,690  |
| Wholesale                      | 4,196  |
| Retail                         | 36,569 |
| Total petroleum industry       | 52,132 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 26        | NA  | 26    |
| Production        | 5         | NA  | 5     |
| Net annual change | 21        | NA  | 21    |
| Proved reserves   | 67        | NA  | 67    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 33                      | 201                | 234        |
| Production        | 27                      | 60                 | 87         |
| Net annual change | 6                       | 141                | 147        |
| Proved reserves   | 346                     | 772                | 1,117      |

### Cost of drilling and equipping wells

| (Appalachian) | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|---------------|------------------|--------------------|---------------------------|
| Oil           | 51.61            | 157,180            | 105,939                   |
| Gas           | 51.31            | 208,774            | 484,148                   |
| Dry           | 50.77            | 203,109            | 24,170                    |
| <b>Total</b>  | <b>51.34</b>     | <b>197,383</b>     | <b>614,257</b>            |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 28,850    |
| Stripper well abandonments    | 183       |
| Crude oil production in bbls. | 4,398,074 |
| Crude oil production b/d      | 12,050    |
| Percentage of oil production  | 73%       |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 32,200        |
| Secondary    | 106           |
| <b>Total</b> | <b>32,306</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 33,345     |
| Stripper well abandonments    | 398        |
| Natural gas production in Mcf | 75,993,000 |

### Federal Onshore Mineral Lease Royalties

|                        |                  |
|------------------------|------------------|
| Oil                    | \$32,285         |
| Gas                    | \$366,330        |
| <b>Total Royalties</b> | <b>\$399,241</b> |

\* State data

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300, Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799



□ Counties with oil and/or gas production

## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 77 |
| With oil and/or gas production | 71 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1891 |
| Natural gas | 1902 |

### Year and amount of peak production

|                                  |      |
|----------------------------------|------|
| Crude oil — 277,775 thous. bbls. | 1927 |
| Natural gas — 2,153,852 MMcf     | 1991 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 22,850 |
| Natural gas | 25,152 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1974 | 31,441 |
|------|--------|

### Cumulative number of total wells drilled\*

as of 12/31/03 (excluding service wells)

|              |                |             |
|--------------|----------------|-------------|
| Oil wells    | 243,126        | 57%         |
| Gas wells    | 64,227         | 15%         |
| Dry holes    | 121,938        | 28%         |
| <b>Total</b> | <b>429,291</b> | <b>100%</b> |

### Cumulative crude oil wellhead value\*

as of 12/31/03 (thous. \$)

\$97,882,567

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total  | Natural Gas (Bcf) |
|------------|-----------|------------------|--------|-------------------|
| Reserves   | 14,707    | 4,871            | 19,578 | 106,316           |
| Production | 14,312    | 4,111            | 18,423 | 105,938           |

## Value of Oil and Gas

### Average wellhead price\*

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$30.02 |
| Natural gas (\$/Mcf) | \$4.83  |

### Wellhead value of production\*

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Crude oil    | \$1,941,597        |
| Natural gas  | \$7,566,985        |
| <b>Total</b> | <b>\$9,508,582</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$8.89 |
| Commercial consumers  | \$8.38 |
| Industrial consumers  | \$7.46 |
| Electric utilities    | \$5.55 |
| City Gate             | \$5.87 |

### Severance taxes paid

(2003, in thous. \$)

\$600,980

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | 23          | 566          | 589          |
| Gas          | 90          | 1,793        | 1,883        |
| Dry          | 85          | 322          | 407          |
| Service      | --          | 22           | 22           |
| <b>Total</b> | <b>198</b>  | <b>2,703</b> | <b>2,901</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory    | Development     | Total           |
|--------------|----------------|-----------------|-----------------|
| Oil          | 177.3          | 2,626.7         | 2,804.0         |
| Gas          | 818.9          | 11,705.0        | 12,523.9        |
| Dry          | 485.7          | 1,740.6         | 2,226.3         |
| Service      | --             | 62.0            | 62.0            |
| <b>Total</b> | <b>1,481.9</b> | <b>16,134.3</b> | <b>17,616.2</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 89  
586.0

### Average rotary rigs active

129

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 3rd       | 4th         |
| Production      | 7th       | 4th         |
| Reserves (2002) | 6th       | 5th         |

### Number of producing wells

(12/31/03)

|                 |                |
|-----------------|----------------|
| Crude oil       | 83,389         |
| Flowing         | 0              |
| Artificial lift | 83,389         |
| Natural gas     | 34,283         |
| <b>Total</b>    | <b>117,672</b> |

### Average production

|              | thous. bbls.   | thous. b/d |
|--------------|----------------|------------|
| Crude oil    | 64,664         | 177        |
| NGL (est.)   | 55,619         | 152        |
| <b>Total</b> | <b>120,283</b> | <b>330</b> |

### Natural gas marketed production

(MMcf)

1,558,155

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 775    |
| Natural gas (Mcf) | 45,450 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 26,993 |
| Refining                       | 2,005  |
| Transportation                 | 5,949  |
| Wholesale                      | 3,719  |
| Retail                         | 13,419 |
| Total petroleum industry       | 52,085 |

Compiled by IPAA July 2005

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 100       | 73  | 173   |
| Production        | 58        | 72  | 130   |
| Net annual change | 42        | 1   | 43    |
| Proved reserves   | 598       | 695 | 1,293 |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 232                     | 2,762              | 2,846      |
| Production        | 164                     | 1,442              | 1,518      |
| Net annual change | 68                      | 1,320              | 1,328      |
| Proved reserves   | 1,177                   | 14,576             | 14,886     |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 92.25            | 461,776            | 229,041                   |
| Gas          | 112.59           | 717,443            | 1,040,293                 |
| Dry          | 86.23            | 497,683            | 172,696                   |
| <b>Total</b> | <b>105.07</b>    | <b>628,884</b>     | <b>1,442,030</b>          |

### Stripper wells

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 56,673     |
| Stripper well abandonments    | 774        |
| Crude oil production in bbls. | 56,299,808 |
| Crude oil production b/d      | 154,246    |
| Percentage of oil production  | 85%        |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |                |
|--------------|----------------|
| Primary      | 97,459         |
| Secondary    | 104,737        |
| <b>Total</b> | <b>202,196</b> |

### Natural gas stripper wells

as of 1/1/03

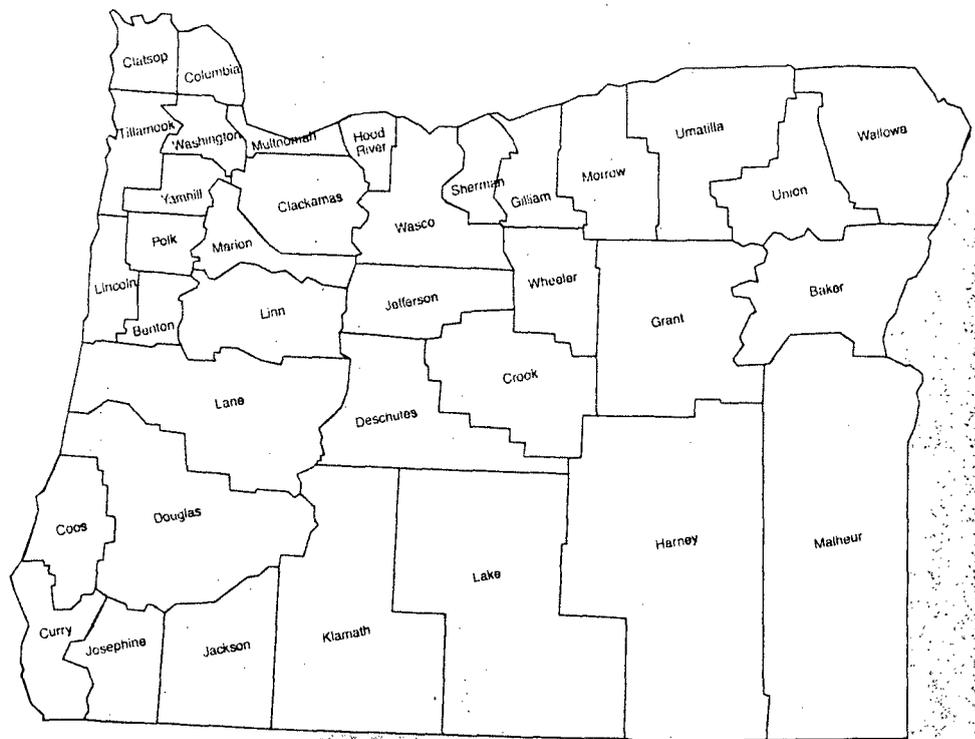
|                               |             |
|-------------------------------|-------------|
| Producing stripper wells      | 17,676      |
| Stripper well abandonments    | 365         |
| Natural gas production in Mcf | 153,207,218 |

### Federal Onshore Mineral Lease Royalties

|                        |                     |
|------------------------|---------------------|
| Oil                    | \$4,517,711         |
| Gas                    | \$12,930,057        |
| <b>Total Royalties</b> | <b>\$19,177,281</b> |

\* State data

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300, Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799



**Background Information**

**Counties**

|                                |    |
|--------------------------------|----|
| Number of counties             | 36 |
| With oil and/or gas production | 1  |

**First year of production**

|             |      |
|-------------|------|
| Crude oil   | NA   |
| Natural gas | 1979 |

**Year and amount of peak production**

|                          |         |
|--------------------------|---------|
| Crude oil —              | NA      |
| Natural gas — 5,000 MMcf | 1980/81 |

**Deepest producing well (ft.)**

|             |       |
|-------------|-------|
| Crude oil   | NA    |
| Natural gas | 3,027 |

**Year and depth of deepest well drilled (ft.)**

|      |        |
|------|--------|
| 1979 | 13,177 |
|------|--------|

**Cumulative number of total wells drilled**

as of 12/31/03 (excluding service wells)

|              |            |             |
|--------------|------------|-------------|
| Oil wells    | 0          | 0%          |
| Gas wells    | 50         | 13%         |
| Dry holes    | 332        | 87%         |
| <b>Total</b> | <b>382</b> | <b>100%</b> |

**Cumulative crude oil wellhead value**

as of 12/31/03 (thous. \$)

NA

**Cumulative production & new reserves**

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | NA        | NA               | NA    | NA                |
| Production | NA        | NA               | NA    | 70                |

**Value of Oil and Gas**

**Average wellhead price**

(2003)

|                      |    |
|----------------------|----|
| Crude oil (\$/bbl.)  | -- |
| Natural gas (\$/Mcf) | NA |

**Wellhead value of production**

(2003, in thous. \$)

|              |           |
|--------------|-----------|
| Crude oil    | --        |
| Natural gas  | NA        |
| <b>Total</b> | <b>NA</b> |

**Average natural gas price**

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$9.84 |
| Commercial consumers  | \$7.91 |
| Industrial consumers  | \$5.84 |
| Electric utilities    | \$4.53 |
| City Gate             | \$5.19 |

**Severance taxes paid**

(2003, in thous. \$)

\$89

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total |
|--------------|-------------|-------------|-------|
| Oil          | --          | --          | --    |
| Gas          | --          | --          | --    |
| Dry          | --          | --          | --    |
| Service      | --          | --          | --    |
| <b>Total</b> | --          | --          | --    |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development | Total |
|--------------|-------------|-------------|-------|
| Oil          | --          | --          | --    |
| Gas          | --          | --          | --    |
| Dry          | --          | --          | --    |
| Service      | --          | --          | --    |
| <b>Total</b> | --          | --          | --    |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 0

### Average rotary rigs active

0

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | --        | --          |
| Production      | --        | 29th        |
| Reserves (2002) | --        | NA          |

### Number of producing wells

(12/31/03)

|                 |           |
|-----------------|-----------|
| Crude oil       | 0         |
| Flowing         | 0         |
| Artificial lift | 0         |
| Natural gas     | 16        |
| <b>Total</b>    | <b>16</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | NA           | NA         |
| NGL (est.)   | NA           | NA         |
| <b>Total</b> | <b>NA</b>    | <b>NA</b>  |

### Natural gas marketed production

(MMcf)

731

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 0      |
| Natural gas (Mcf) | 45,688 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 41     |
| Refining                       | ND     |
| Transportation                 | 1,420  |
| Wholesale                      | 1,637  |
| Retail                         | 11,168 |
| Total petroleum industry       | 14,266 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | NA        | NA  | NA    |
| Production        | NA        | NA  | NA    |
| Net annual change | NA        | NA  | NA    |
| Proved reserves   | NA        | NA  | NA    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | NA                      | NA                 | NA         |
| Production        | NA                      | NA                 | NA         |
| Net annual change | NA                      | NA                 | NA         |
| Proved reserves   | NA                      | NA                 | NA         |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | NA               | NA                 | NA                        |
| Gas          | NA               | NA                 | NA                        |
| Dry          | NA               | NA                 | NA                        |
| <b>Total</b> | <b>NA</b>        | <b>NA</b>          | <b>NA</b>                 |

### Stripper wells

|                               |   |
|-------------------------------|---|
| Producing stripper wells      | 0 |
| Stripper well abandonments    | 0 |
| Crude oil production in bbls. | 0 |
| Crude oil production b/d      | 0 |
| Percentage of oil production  | 0 |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|           |   |
|-----------|---|
| Primary   | 0 |
| Secondary | 0 |
| Total     | 0 |

### Natural gas stripper wells

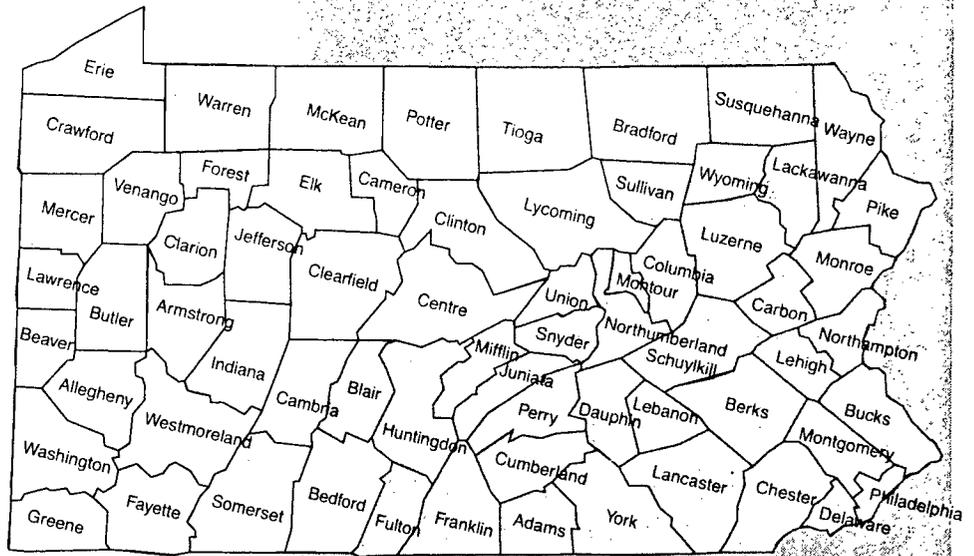
as of 1/1/03

|                               |   |
|-------------------------------|---|
| Producing stripper wells      | 0 |
| Stripper well abandonments    | 0 |
| Natural gas production in Mcf | 0 |

### Federal Onshore Mineral Lease Royalties

|                 |     |
|-----------------|-----|
| Oil             | --  |
| Gas             | --  |
| Total Royalties | \$0 |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300, Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799



**Background Information**

**Counties**

|                                |    |
|--------------------------------|----|
| Number of counties             | 67 |
| With oil and/or gas production | 31 |

**First year of production**

|             |      |
|-------------|------|
| Crude oil   | 1859 |
| Natural gas | 1881 |

**Year and amount of peak production**

|                                 |      |
|---------------------------------|------|
| Crude oil — 31,424 thous. bbls. | 1891 |
| Natural gas — 200,907 MMcf      | 2000 |

**Deepest producing well (ft.)**

|             |        |
|-------------|--------|
| Crude oil   | 8,484  |
| Natural gas | 13,186 |

**Year and depth of deepest well drilled (ft.)**

|      |        |
|------|--------|
| 1974 | 21,640 |
|------|--------|

**Cumulative number of total wells drilled**

as of 12/31/03 (excluding service wells)

|              |                |             |
|--------------|----------------|-------------|
| Oil wells    | 252,584        | 75%         |
| Gas wells    | 44,914         | 13%         |
| Dry holes    | 38,941         | 12%         |
| <b>Total</b> | <b>336,439</b> | <b>100%</b> |

**Cumulative crude oil wellhead value**

as of 12/31/03 (thous. \$) \$4,729,986

**Cumulative production & new reserves**

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 1,352     | NA               | 1,352 | 14,438            |
| Production | 1,351     | NA               | 1,351 | 12,577            |

Counties with oil and/or gas production

**Value of Oil and Gas**

**Average wellhead price**

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$29.60 |
| Natural gas (\$/Mcf) | NA      |

**Wellhead value of production**

(2003, in thous. \$)

|              |                 |
|--------------|-----------------|
| Crude oil    | \$68,672        |
| Natural gas  | NA              |
| <b>Total</b> | <b>\$68,672</b> |

**Average natural gas price**

(2003, \$/Mcf)

|                       |         |
|-----------------------|---------|
| Residential consumers | \$10.87 |
| Commercial consumers  | \$9.32  |
| Industrial consumers  | \$8.12  |
| Electric utilities    | \$7.10  |
| City Gate             | \$6.48  |

**Severance taxes paid**

(2003, in thous. \$) --

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | 10          | 390          | 400          |
| Gas          | 57          | 1,838        | 1,895        |
| Dry          | 1           | 8            | 9            |
| Service      | --          | --           | --           |
| <b>Total</b> | <b>68</b>   | <b>2,236</b> | <b>2,304</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory  | Development    | Total          |
|--------------|--------------|----------------|----------------|
| Oil          | 23.0         | 723.8          | 746.8          |
| Gas          | 251.1        | 7,013.5        | 7,264.6        |
| Dry          | 12.3         | 25.1           | 37.4           |
| Service      | --           | --             | --             |
| <b>Total</b> | <b>286.3</b> | <b>7,762.4</b> | <b>8,048.7</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 36

### Average rotary rigs active

10

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | --        | 3rd         |
| Production      | 23rd      | 16th        |
| Reserves (2002) | 24th      | 15th        |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 22,334        |
| Flowing         | 200           |
| Artificial lift | 22,134        |
| Natural gas     | 46,397        |
| <b>Total</b>    | <b>68,731</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 2,320        | 6          |
| NGL (est.)   | 499          | 1          |
| <b>Total</b> | <b>2,819</b> | <b>8</b>   |

### Natural gas marketed production

(MMcf)

159,827

### Average output per producing well

|                   |       |
|-------------------|-------|
| Crude oil (bbls.) | 104   |
| Natural gas (Mcf) | 3,445 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 3,798  |
| Refining                       | 4,869  |
| Transportation                 | 5,304  |
| Wholesale                      | 13,127 |
| Retail                         | 35,024 |
| Total petroleum industry       | 62,122 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 4         | NA  | 4     |
| Production        | 2         | NA  | 2     |
| Net annual change | 2         | NA  | 2     |
| Proved reserves   | 12        | NA  | 12    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | -25                     | 601                | 574        |
| Production        | 6                       | 127                | 133        |
| Net annual change | -31                     | 474                | 441        |
| Proved reserves   | 137                     | 2,088              | 2,216      |

### Cost of drilling and equipping wells

(Appalachian) Cost/ft.

|              | Cost/<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|---------------|--------------------|---------------------------|
| Oil          | 51.61         | 157,180            | 105,939                   |
| Gas          | 51.31         | 208,774            | 484,148                   |
| Dry          | 50.77         | 203,109            | 24,170                    |
| <b>Total</b> | <b>51.34</b>  | <b>197,383</b>     | <b>614,257</b>            |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 15,470    |
| Stripper well abandonments    | 210       |
| Crude oil production in bbls. | 2,324,000 |
| Crude oil production b/d      | 6,367     |
| Percentage of oil production  | 100%      |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 8,210         |
| Secondary    | 11,814        |
| <b>Total</b> | <b>20,024</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |             |
|-------------------------------|-------------|
| Producing stripper wells      | 40,830      |
| Stripper well abandonments    | 148         |
| Natural gas production in Mcf | 131,800,000 |

### Federal Onshore Mineral Lease Royalties

|                        |                 |
|------------------------|-----------------|
| Oil                    | \$170           |
| Gas                    | \$21,021        |
| <b>Total Royalties</b> | <b>\$39,345</b> |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300, Washington, D.C. 20005  
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Counties with oil and/or gas production

### Background Information

#### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 66 |
| With oil and/or gas production | 3  |

#### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1954 |
| Natural gas | 1979 |

#### Year and amount of peak production\*

|                                |      |
|--------------------------------|------|
| Crude oil — 1,668 thous. bbls. | 1988 |
| Natural gas — 4,369 MMcf       | 1989 |

#### Deepest producing well (ft.)\*

|             |        |
|-------------|--------|
| Crude oil   | 14,877 |
| Natural gas | 3,550  |

#### Year and depth of deepest well drilled (ft.)\*

|      |        |
|------|--------|
| 2003 | 14,877 |
|------|--------|

#### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |              |             |
|--------------|--------------|-------------|
| Oil wells    | 267          | 21%         |
| Gas wells    | 71           | 6%          |
| Dry holes    | 905          | 73%         |
| <b>Total</b> | <b>1,243</b> | <b>100%</b> |

#### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$)

\$754,667

#### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | NA        | NA               | NA    | NA                |
| Production | NA        | NA               | NA    | NA                |

### Value of Oil and Gas

#### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$28.94 |
| Natural gas (\$/Mcf) | \$4.98  |

#### Wellhead value of production

(2003, in thous. \$)

|              |                 |
|--------------|-----------------|
| Crude oil    | \$35,799        |
| Natural gas  | \$5,493         |
| <b>Total</b> | <b>\$41,292</b> |

#### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$8.49 |
| Commercial consumers  | \$7.12 |
| Industrial consumers  | \$5.78 |
| Electric utilities    | NA     |
| City Gate             | \$6.07 |

#### Severance taxes paid

(2003, in thous. \$)

\$1,239

## 2003 Industry Statistics

### Number of wells drilled\*

|              | Exploratory | Development | Total    |
|--------------|-------------|-------------|----------|
| Oil          | --          | --          | 3        |
| Gas          | --          | --          | 2        |
| Dry          | --          | --          | 4        |
| Service      | --          | --          | 0        |
| <b>Total</b> | --          | --          | <b>9</b> |

### Total footage drilled\*

(thous. ft.)

|              | Exploratory | Development | Total       |
|--------------|-------------|-------------|-------------|
| Oil          | --          | --          | 53.8        |
| Gas          | --          | --          | 2.4         |
| Dry          | --          | --          | 8.6         |
| Service      | --          | --          | 0           |
| <b>Total</b> | --          | --          | <b>64.8</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled\*

|                      |     |
|----------------------|-----|
| Footage (thous. ft.) | 5   |
|                      | 8.6 |

### Average rotary rigs active

0

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | --        | --          |
| Production      | 25th      | 28th        |
| Reserves (2002) | NA        | NA          |

### Number of producing wells\*

(12/31/03)

|                 |            |
|-----------------|------------|
| Crude oil       | 147        |
| Flowing         | 0          |
| Artificial lift | 147        |
| Natural gas     | 67         |
| <b>Total</b>    | <b>214</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 1,237        | 3          |
| NGL (est.)   | --           | --         |
| <b>Total</b> | <b>1,237</b> | <b>3</b>   |

### Natural gas marketed production

(MMcf)

1,103

### Average output per producing well\*

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 8,415  |
| Natural gas (Mcf) | 16,463 |

### Average number of employees

|                                 |              |
|---------------------------------|--------------|
| Oil and natural gas extraction  | 37           |
| Refining                        | ND           |
| Transportation                  | 230          |
| Wholesale                       | 1,358        |
| Retail                          | 5,824        |
| <b>Total petroleum industry</b> | <b>7,449</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | NA        | NA  | NA    |
| Production        | NA        | NA  | NA    |
| Net annual change | NA        | NA  | NA    |
| Proved reserves   | NA        | NA  | NA    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | NA                      | NA                 | NA         |
| Production        | NA                      | NA                 | NA         |
| Net annual change | NA                      | NA                 | NA         |
| Proved reserves   | NA                      | NA                 | NA         |

### Cost of drilling and equipping wells

| (Other)      | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 180.66           | 213,000            | 3,143                     |
| Gas          | 89.05            | 219,943            | 17,572                    |
| Dry          | 161.48           | 309,500            | 7,906                     |
| <b>Total</b> | <b>93.19</b>     | <b>225,585</b>     | <b>28,621</b>             |

### Stripper wells\*

|                               |        |
|-------------------------------|--------|
| Producing stripper wells      | 24     |
| Stripper well abandonments    | 2      |
| Crude oil production in bbls. | 51,461 |
| Crude oil production b/d      | 140    |
| Percentage of oil production  | 4%     |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |            |
|--------------|------------|
| Primary      | 142        |
| Secondary    | 136        |
| <b>Total</b> | <b>278</b> |

### Natural gas stripper wells\*

as of 1/1/03

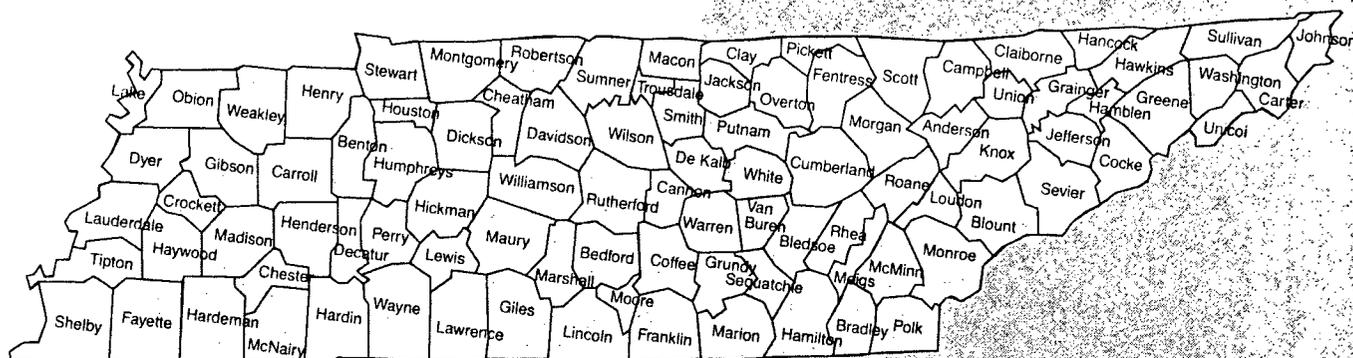
|                               |         |
|-------------------------------|---------|
| Producing stripper wells      | 56      |
| Stripper well abandonments    | 0       |
| Natural gas production in Mcf | 415,523 |

### Federal Onshore Mineral Lease Royalties

|                        |                  |
|------------------------|------------------|
| Oil                    | \$460,390        |
| Gas                    | \$44,482         |
| <b>Total Royalties</b> | <b>\$713,266</b> |

\*State data

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## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 95 |
| With oil and/or gas production | 12 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1860 |
| Natural gas | 1889 |

### Year and amount of peak production

|                                |      |
|--------------------------------|------|
| Crude oil — 1,132 thous. bbls. | 1982 |
| Natural gas — 5,022 MMcf       | 1984 |

### Deepest producing well (ft.)

|             |       |
|-------------|-------|
| Crude oil   | 3,297 |
| Natural gas | 4,624 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1982 | 11,540 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |              |             |
|--------------|--------------|-------------|
| Oil wells    | 1,939        | 28%         |
| Gas wells    | 1,782        | 25%         |
| Dry holes    | 3,297        | 47%         |
| <b>Total</b> | <b>7,018</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$) \$384,543

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | NA        | NA               | NA    | NA                |
| Production | 19.9      | NA               | 19.9  | 105               |

□ Counties with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$26.56 |
| Natural gas (\$/Mcf) | \$5.22  |

### Wellhead value of production

(2003, in thous. \$)

|              |                 |
|--------------|-----------------|
| Crude oil    | \$9,562         |
| Natural gas  | \$9,412         |
| <b>Total</b> | <b>\$18,974</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$9.64 |
| Commercial consumers  | \$8.88 |
| Industrial consumers  | \$6.32 |
| Electric utilities    | NA     |
| City Gate             | \$5.96 |

### Severance taxes paid

(2003, in thous. \$) \$592

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total    |
|--------------|-------------|-------------|----------|
| Oil          | --          | 1           | 1        |
| Gas          | --          | 1           | 1        |
| Dry          | --          | 4           | 4        |
| Service      | --          | --          | --       |
| <b>Total</b> | <b>--</b>   | <b>6</b>    | <b>6</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development | Total       |
|--------------|-------------|-------------|-------------|
| Oil          | --          | 1.5         | 1.5         |
| Gas          | --          | 2.7         | 2.7         |
| Dry          | --          | 7.1         | 7.1         |
| Service      | --          | --          | --          |
| <b>Total</b> | <b>--</b>   | <b>11.3</b> | <b>11.3</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

|                      |   |
|----------------------|---|
| Footage (thous. ft.) | 0 |
|----------------------|---|

### Average rotary rigs active

0

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 24th      | 25th        |
| Production      | 28th      | 25th        |
| Reserves (2002) | NA        | NA          |

### Number of producing wells

(12/31/03)

|                 |            |
|-----------------|------------|
| Crude oil       | 420        |
| Flowing         | 0          |
| Artificial lift | 420        |
| Natural gas     | 300        |
| <b>Total</b>    | <b>720</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 360          | 1          |
| NGL (est.)   | 0            | --         |
| <b>Total</b> | <b>360</b>   | <b>1</b>   |

### Natural gas marketed production

(MMcf)

1,803

### Average output per producing well

|                   |       |
|-------------------|-------|
| Crude oil (bbls.) | 857   |
| Natural gas (Mcf) | 6,010 |

### Average number of employees

|                                 |               |
|---------------------------------|---------------|
| Oil and natural gas extraction  | 547           |
| Refining                        | 628           |
| Transportation                  | 2,379         |
| Wholesale                       | 4,250         |
| Retail                          | 23,726        |
| <b>Total petroleum industry</b> | <b>31,531</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | NA        | NA  | NA    |
| Production        | NA        | NA  | NA    |
| Net annual change | NA        | NA  | NA    |
| Proved reserves   | NA        | NA  | NA    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | NA                      | NA                 | NA         |
| Production        | NA                      | NA                 | NA         |
| Net annual change | NA                      | NA                 | NA         |
| Proved reserves   | NA                      | NA                 | NA         |

### Cost of drilling and equipping wells

| (Other)      | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 180.66           | 213,000            | 3,143                     |
| Gas          | 89.05            | 219,943            | 17,572                    |
| Dry          | 161.48           | 309,500            | 7,906                     |
| <b>Total</b> | <b>93.19</b>     | <b>225,585</b>     | <b>28,621</b>             |

### Stripper wells

|                               |         |
|-------------------------------|---------|
| Producing stripper wells      | 424     |
| Stripper well abandonments    | 38      |
| Crude oil production in bbls. | 246,026 |
| Crude oil production b/d      | 674     |
| Percentage of oil production  | 78%     |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |            |
|--------------|------------|
| Primary      | 214        |
| Secondary    | 144        |
| <b>Total</b> | <b>358</b> |

### Natural gas stripper wells

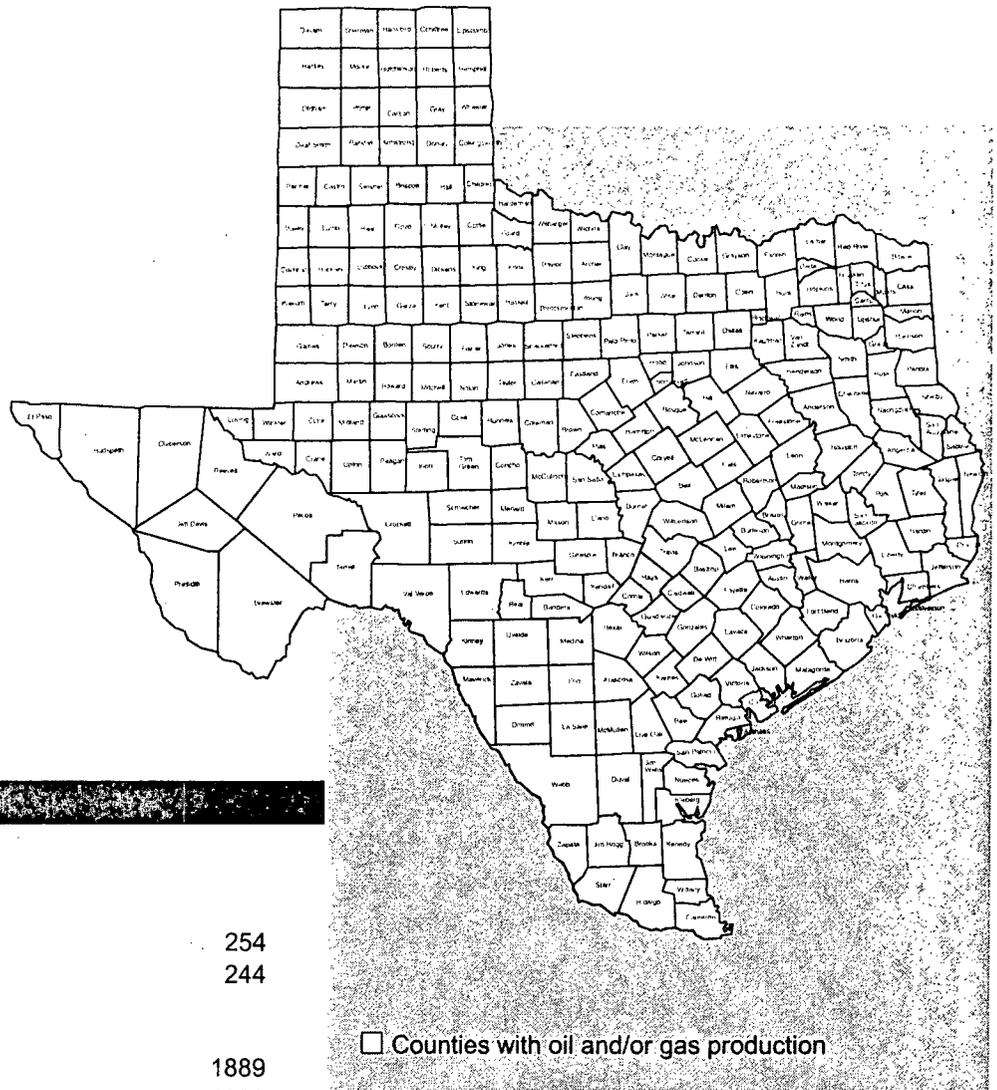
as of 1/1/03

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 401       |
| Stripper well abandonments    | 15        |
| Natural gas production in Mcf | 1,586,127 |

### Federal Onshore Mineral Lease Royalties

|                        |            |
|------------------------|------------|
| Oil                    | --         |
| Gas                    | --         |
| <b>Total Royalties</b> | <b>\$0</b> |

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## Background Information

### Counties

|                                |     |
|--------------------------------|-----|
| Number of counties             | 254 |
| With oil and/or gas production | 244 |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1889 |
| Natural gas | 1889 |

### Year and amount of peak production

|                                    |      |
|------------------------------------|------|
| Crude oil — 1,301,685 thous. bbls. | 1972 |
| Natural gas — 8,657,840 MMcf       | 1972 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 18,008 |
| Natural gas | 26,536 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1982 | 29,670 |
|------|--------|

### Cumulative number of total wells drilled

|  |                |  |             |
|--|----------------|--|-------------|
| as of 12/31/03 (excluding service wells) |                |  |             |
| Oil wells                                | 549,206        |  | 56%         |
| Gas wells                                | 121,671        |  | 12%         |
| Dry holes                                | 309,113        |  | 32%         |
| <b>Total</b>                             | <b>979,990</b> |  | <b>100%</b> |

|  |                      |
|--|----------------------|
| <b>Cumulative crude oil wellhead value</b> | <b>\$523,494,780</b> |
| as of 12/31/03 (thous. \$)                 |                      |

### Cumulative production & new reserves

|  |                  |                         |              |                          |
|--|------------------|-------------------------|--------------|--------------------------|
| production as of 12/31/03, reserves as of 12/31/02 |                  |                         |              |                          |
|  | <b>Crude Oil</b> | <b>NGL (mill. bbls)</b> | <b>Total</b> | <b>Natural Gas (Bcf)</b> |
| Reserves   | 71,355           | 18,805                  | 90,160       | 392,321                  |
| Production   | 67,527           | 15,867                  | 83,394       | 403,481                  |

## Value of Oil and Gas

### Average wellhead price

|                      |         |
|----------------------|---------|
| (2003)               |         |
| Crude oil (\$/bbl.)  | \$29.13 |
| Natural gas (\$/Mcf) | \$5.18  |

### Wellhead value of production

|                      |                     |
|----------------------|---------------------|
| (2003, in thous. \$) |                     |
| Crude oil            | \$11,851,279        |
| Natural gas          | \$27,161,677        |
| <b>Total</b>         | <b>\$39,012,956</b> |

### Average natural gas price

|                       |        |
|-----------------------|--------|
| (2003, \$/Mcf)        |        |
| Residential consumers | \$9.22 |
| Commercial consumers  | \$7.59 |
| Industrial consumers  | \$5.36 |
| Electric utilities    | \$5.47 |
| City Gate             | \$5.53 |

### Severance taxes paid

|                      |             |
|----------------------|-------------|
| (2003, in thous. \$) | \$1,492,743 |
|----------------------|-------------|

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | 92          | 2,650        | 2,742        |
| Gas          | 199         | 5,034        | 5,233        |
| Dry          | 446         | 808          | 1,254        |
| Service      | --          | 207          | 207          |
| <b>Total</b> | <b>737</b>  | <b>8,699</b> | <b>9,436</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory    | Development     | Total           |
|--------------|----------------|-----------------|-----------------|
| Oil          | 631.2          | 14,901.5        | 15,532.7        |
| Gas          | 1,994.5        | 43,930.9        | 45,925.4        |
| Dry          | 3,361.6        | 4,653.5         | 8,015.1         |
| Service      | --             | 865.6           | 865.6           |
| <b>Total</b> | <b>5,987.2</b> | <b>64,351.5</b> | <b>70,338.8</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 424  
3,382.4

### Average rotary rigs active

449

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 1st       | 1st         |
| Production      | 2nd*      | 1st         |
| Reserves (2002) | 1st       | 1st         |

\*First for state ranking but behind Federal Offshore.

### Number of producing wells

(12/31/03)

|                 |                |
|-----------------|----------------|
| Crude oil       | 154,428        |
| Flowing         | 7,499          |
| Artificial lift | 146,929        |
| Natural gas     | 66,315         |
| <b>Total</b>    | <b>220,743</b> |

### Average production

|              | thous. bbls.   | thous. b/d   |
|--------------|----------------|--------------|
| Crude oil    | 406,855        | 1,115        |
| NGL (est.)   | 267,431        | 733          |
| <b>Total</b> | <b>674,286</b> | <b>1,847</b> |

### Natural gas marketed production

(MMcf)

5,243,567

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 2,635  |
| Natural gas (Mcf) | 79,071 |

### Average number of employees

|                                |         |
|--------------------------------|---------|
| Oil and natural gas extraction | 177,577 |
| Refining                       | 21,485  |
| Transportation                 | 21,400  |
| Wholesale & products           | 7,665   |
| Retail                         | 67,860  |
| Total petroleum industry       | 295,987 |

Compiled by IPAA July 2005

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL   | Total |
|-------------------|-----------|-------|-------|
| New reserves      | 439       | 359   | 798   |
| Production        | 368       | 301   | 669   |
| Net annual change | 71        | 58    | 129   |
| Proved reserves   | 5,015     | 2,711 | 7,726 |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 956                     | 5,455              | 5,808      |
| Production        | 658                     | 4,727              | 5,038      |
| Net annual change | 298                     | 728                | 770        |
| Proved reserves   | 6,387                   | 41,104             | 44,297     |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 106.25           | 628,968            | 1,028,362                 |
| Gas          | 170.66           | 1,562,770          | 5,916,647                 |
| Dry          | 171.17           | 1,108,658          | 1,237,262                 |
| <b>Total</b> | <b>158.64</b>    | <b>3,300,396</b>   | <b>8,182,270</b>          |

### Stripper wells

|                               |             |
|-------------------------------|-------------|
| Producing stripper wells      | 124,551     |
| Stripper well abandonments    | 5,228       |
| Crude oil production in bbls. | 127,252,695 |
| Crude oil production b/d      | 348,638     |
| Percentage of oil production  | 31%         |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |                  |
|--------------|------------------|
| Primary      | 523,686          |
| Secondary    | 561,675          |
| <b>Total</b> | <b>1,085,361</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |             |
|-------------------------------|-------------|
| Producing stripper wells      | 32,200      |
| Stripper well abandonments    | 1,351       |
| Natural gas production in Mcf | 258,983,600 |

### Federal Onshore Mineral Lease Royalties

|                        |                     |
|------------------------|---------------------|
| Oil                    | \$6,248,322         |
| Gas                    | \$54,984,334        |
| <b>Total Royalties</b> | <b>\$60,658,250</b> |

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## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 29 |
| With oil and/or gas production | 9  |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1907 |
| Natural gas | 1886 |

### Year and amount of peak production

|                                 |      |
|---------------------------------|------|
| Crude oil — 42,301 thous. bbls. | 1975 |
| Natural gas — 348,140 MMcf      | 1994 |

### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 17,910 |
| Natural gas | 20,600 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1982 | 21,874 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |               |             |
|--------------|---------------|-------------|
| Oil wells    | 4,769         | 37%         |
| Gas wells    | 3,997         | 31%         |
| Dry holes    | 4,113         | 32%         |
| <b>Total</b> | <b>12,879</b> | <b>100%</b> |

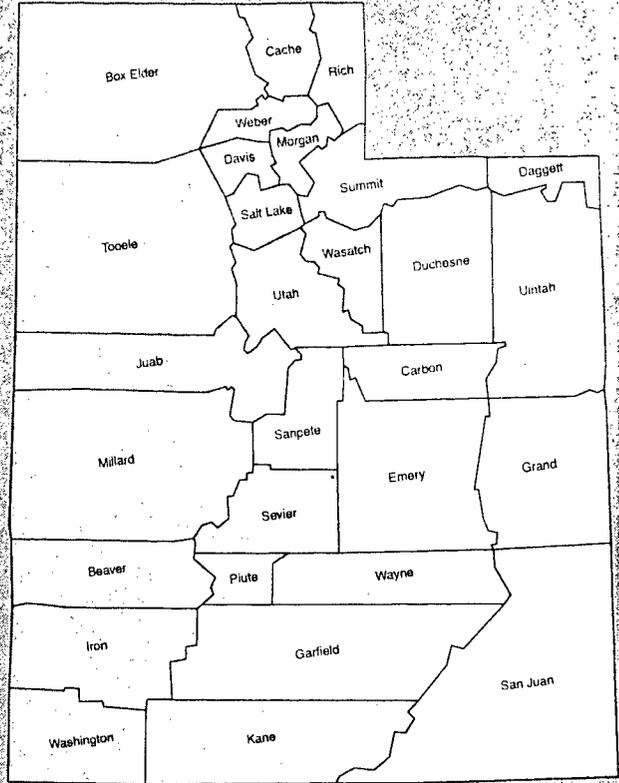
### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$) \$15,930,298

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 1,330     | 1,286            | 2,616 | 9,254             |
| Production | 1,148     | 199              | 1,347 | 5,337             |



□ Counties with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$28.88 |
| Natural gas (\$/Mcf) | \$4.11  |

### Wellhead value of production

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Crude oil    | \$378,270          |
| Natural gas  | \$1,101,718        |
| <b>Total</b> | <b>\$1,479,988</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$7.33 |
| Commercial consumers  | \$5.95 |
| Industrial consumers  | \$5.04 |
| Electric utilities    | \$3.89 |
| City Gate             | \$4.74 |

### Severance taxes paid

(2003, in thous. \$)

\$28,689

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | 10          | 108         | 118        |
| Gas          | 15          | 254         | 269        |
| Dry          | 8           | 23          | 31         |
| Service      | --          | --          | --         |
| <b>Total</b> | <b>33</b>   | <b>385</b>  | <b>418</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory  | Development    | Total          |
|--------------|--------------|----------------|----------------|
| Oil          | 50.7         | 631.6          | 682.3          |
| Gas          | 141.8        | 1,866.9        | 2,008.7        |
| Dry          | 40.0         | 130.1          | 170.1          |
| Service      | --           | --             | --             |
| <b>Total</b> | <b>232.5</b> | <b>2,628.6</b> | <b>2,861.1</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 10 60.4

### Average rotary rigs active

14

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 13th      | 14th        |
| Production      | 14th      | 12th        |
| Reserves (2002) | 11th      | 10th        |

### Number of producing wells

(12/31/03)

|                 |              |
|-----------------|--------------|
| Crude oil       | 1,955        |
| Flowing         | 59           |
| Artificial lift | 1,896        |
| Natural gas     | 3,143        |
| <b>Total</b>    | <b>5,098</b> |

### Average production

|              | thous. bbls.  | thous. b/d |
|--------------|---------------|------------|
| Crude oil    | 13,098        | 36         |
| NGL (est.)   | 2,785         | 8          |
| <b>Total</b> | <b>15,883</b> | <b>44</b>  |

### Natural gas marketed production

(MMcf)

268,058

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 6,700  |
| Natural gas (Mcf) | 85,287 |

### Average number of employees

|                                 |               |
|---------------------------------|---------------|
| Oil and natural gas extraction  | 2,656         |
| Refining                        | 749           |
| Transportation                  | 1,246         |
| Wholesale                       | 495           |
| Retail                          | 9,642         |
| <b>Total petroleum industry</b> | <b>14,788</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.) \* Combined with Wyoming

|                   | Crude Oil | NGL* | Total |
|-------------------|-----------|------|-------|
| New reserves      | -28       | 107  | 79    |
| Production        | 12        | 66   | 78    |
| Net annual change | -30       | 41   | 11    |
| Proved reserves   | 241       | 938  | 1,179 |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 77                      | -260               | -158       |
| Production        | 21                      | 275                | 286        |
| Net annual change | 56                      | -535               | -444       |
| Proved reserves   | 359                     | 3,915              | 4,135      |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 117.37           | 765,000            | 81,090                    |
| Gas          | 153.63           | 983,136            | 469,939                   |
| Dry          | 96.95            | 522,103            | 15,141                    |
| <b>Total</b> | <b>144.95</b>    | <b>923,604</b>     | <b>566,169</b>            |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 1,049     |
| Stripper well abandonments    | 16        |
| Crude oil production in bbls. | 1,445,945 |
| Crude oil production b/d      | 3,961     |
| Percentage of oil production  | 11%       |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 9,995         |
| Secondary    | 9,795         |
| <b>Total</b> | <b>19,790</b> |

### Natural gas stripper wells

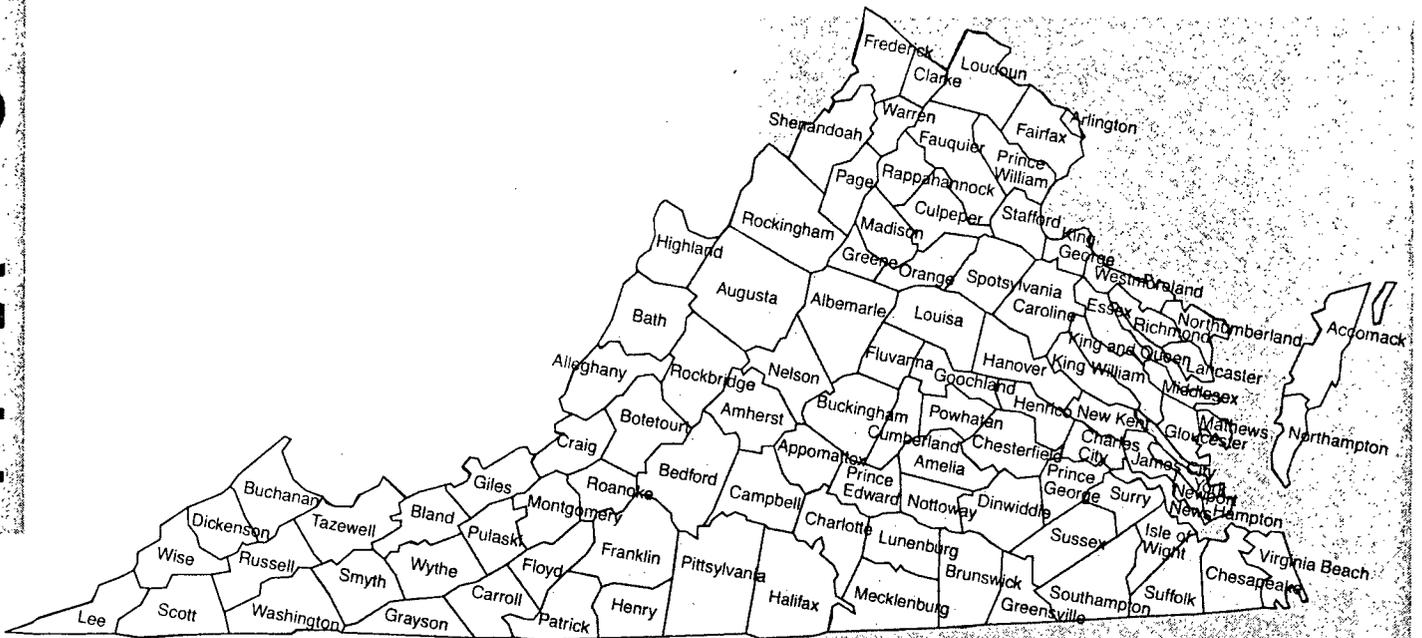
as of 1/1/03

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 929       |
| Stripper well abandonments    | 6         |
| Natural gas production in Mcf | 9,359,853 |

### Federal Onshore Mineral Lease Royalties

|                        |                     |
|------------------------|---------------------|
| Oil                    | \$26,737,705        |
| Gas                    | \$36,944,256        |
| <b>Total Royalties</b> | <b>\$88,162,215</b> |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
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## Background Information

### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 96 |
| With oil and/or gas production | 7  |

### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1943 |
| Natural gas | 1931 |

### Year and amount of peak production

|                             |      |
|-----------------------------|------|
| Crude oil — 65 thous. bbls. | 1983 |
| Natural gas — 81,086 MMcf   | 2003 |

### Deepest producing well (ft.)

|             |       |
|-------------|-------|
| Crude oil   | 7,238 |
| Natural gas | 7,238 |

### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1977 | 17,003 |
|------|--------|

### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |              |             |
|--------------|--------------|-------------|
| Oil wells    | 255          | 5%          |
| Gas wells    | 4,759        | 91%         |
| Dry holes    | 203          | 4%          |
| <b>Total</b> | <b>5,217</b> | <b>100%</b> |

### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$)

\$11,097

### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | NA        | NA               | NA    | 2,229             |
| Production | 0.5       | NA               | 0.5   | 946               |

□ Counties with oil and/or gas production

## Value of Oil and Gas

### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$26.23 |
| Natural gas (\$/Mcf) | \$4.65  |

### Wellhead value of production

(2003, in thous. \$)

|              |                  |
|--------------|------------------|
| Crude oil    | \$472            |
| Natural gas  | \$377,050        |
| <b>Total</b> | <b>\$377,522</b> |

### Average natural gas price

(2003, \$/Mcf)

|                       |         |
|-----------------------|---------|
| Residential consumers | \$11.84 |
| Commercial consumers  | \$9.47  |
| Industrial consumers  | \$5.97  |
| Electric utilities    | \$6.23  |
| City Gate             | \$6.57  |

### Severance taxes paid

(2003, in thous. \$)

--

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | --          | --          | --         |
| Gas          | 6           | 192         | 198        |
| Dry          | --          | --          | --         |
| Service      | --          | --          | --         |
| <b>Total</b> | <b>6</b>    | <b>192</b>  | <b>198</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | --          | --           | --           |
| Gas          | 33.7        | 534.6        | 568.3        |
| Dry          | --          | --           | --           |
| Service      | --          | --           | --           |
| <b>Total</b> | <b>33.7</b> | <b>534.6</b> | <b>568.3</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 5

### Average rotary rigs active

1

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | --        | --          |
| Production      | 32nd      | 21st        |
| Reserves (2002) | NA        | 17th        |

### Number of producing wells

(12/31/03)

|                 |              |
|-----------------|--------------|
| Crude oil       | 8            |
| Flowing         | 0            |
| Artificial lift | 8            |
| Natural gas     | 3,529        |
| <b>Total</b>    | <b>3,529</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 18           | --         |
| NGL (est.)   | --           | --         |
| <b>Total</b> | <b>18</b>    | <b>--</b>  |

### Natural gas marketed production

(MMcf)

81,086

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 2,250  |
| Natural gas (Mcf) | 22,977 |

### Average number of employees

|                                 |               |
|---------------------------------|---------------|
| Oil and natural gas extraction  | 926           |
| Refining                        | 321           |
| Transportation                  | 2,608         |
| Wholesale                       | 3,722         |
| Retail                          | 34,247        |
| <b>Total petroleum industry</b> | <b>41,317</b> |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | NA        | NA  | NA    |
| Production        | NA        | NA  | NA    |
| Net annual change | NA        | NA  | NA    |
| Proved reserves   | NA        | NA  | NA    |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 0                       | -4                 | -4         |
| Production        | 0                       | 75                 | 75         |
| Net annual change | 0                       | -79                | -79        |
| Proved reserves   | 0                       | 1,673              | 1,673      |

### Cost of drilling and equipping wells

| (Other)      | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 180.66           | 213,000            | 3,143                     |
| Gas          | 89.05            | 219,943            | 17,572                    |
| Dry          | 161.48           | 309,500            | 7,906                     |
| <b>Total</b> | <b>93.19</b>     | <b>225,585</b>     | <b>28,621</b>             |

### Stripper well

|                               |       |
|-------------------------------|-------|
| Producing stripper wells      | 13    |
| Stripper well abandonments    | 0     |
| Crude oil production in bbls. | 3,428 |
| Crude oil production b/d      | 9     |
| Percentage of oil production  | 16%   |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |            |
|--------------|------------|
| Primary      | 51         |
| Secondary    | 50         |
| <b>Total</b> | <b>101</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 127       |
| Stripper well abandonments    | 9         |
| Natural gas production in Mcf | 1,807,834 |

### Federal Onshore Mineral Lease Royalties

|                        |                    |
|------------------------|--------------------|
| Oil                    | \$0                |
| Gas                    | \$(192,885)        |
| <b>Total Royalties</b> | <b>\$(159,566)</b> |

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202-857-4722, FAX: 202-857-4799



## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development | Total      |
|--------------|-------------|-------------|------------|
| Oil          | --          | 5           | 5          |
| Gas          | 28          | 832         | 860        |
| Dry          | 2           | 20          | 22         |
| Service      | --          | 16          | 16         |
| <b>Total</b> | <b>30</b>   | <b>873</b>  | <b>903</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory  | Development    | Total          |
|--------------|--------------|----------------|----------------|
| Oil          | --           | 13.9           | 13.9           |
| Gas          | 123.5        | 3,354.5        | 3,478.0        |
| Dry          | 8.6          | 77.0           | 85.6           |
| Service      | --           | 51.8           | 51.8           |
| <b>Total</b> | <b>132.1</b> | <b>3,497.2</b> | <b>3,629.3</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) 12  
54.4

### Average rotary rigs active

16

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 22nd      | 7th         |
| Production      | 26th      | 14th        |
| Reserves (2002) | 25th      | 12th        |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 7,667         |
| Flowing         | 179           |
| Artificial lift | 7,488         |
| Natural gas     | 40,186        |
| <b>Total</b>    | <b>47,853</b> |

### Average production

|              | thous. bbls. | thous. b/d |
|--------------|--------------|------------|
| Crude oil    | 1,220        | 3          |
| NGL (est.)   | 8,577        | 24         |
| <b>Total</b> | <b>9,797</b> | <b>27</b>  |

### Natural gas marketed production

(MMcf)

187,723

### Average output per producing well

|                   |       |
|-------------------|-------|
| Crude oil (bbls.) | 159   |
| Natural gas (Mcf) | 4,671 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 2,662  |
| Refining                       | 921    |
| Transportation                 | 2,608  |
| Wholesale                      | 604    |
| Retail                         | 9,115  |
| Total petroleum industry       | 15,910 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.)

|                   | Crude Oil | NGL | Total |
|-------------------|-----------|-----|-------|
| New reserves      | 6         | -1  | 5     |
| Production        | 1         | 6   | 7     |
| Net annual change | 5         | -7  | -2    |
| Proved reserves   | 13        | 99  | 112   |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | -26                     | 901                | 876        |
| Production        | 1                       | 201                | 194        |
| Net annual change | -27                     | 700                | 682        |
| Proved reserves   | 21                      | 3,477              | 3,360      |

### Cost of drilling and equipping wells

(Appalachian) Cost/ft.

|              | Cost/<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|---------------|--------------------|---------------------------|
| Oil          | 51.61         | 157,180            | 105,939                   |
| Gas          | 51.31         | 208,774            | 484,148                   |
| Dry          | 50.77         | 203,109            | 24,170                    |
| <b>Total</b> | <b>51.34</b>  | <b>197,383</b>     | <b>614,257</b>            |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 8,210     |
| Stripper well abandonments    | 46        |
| Crude oil production in bbls. | 1,248,000 |
| Crude oil production b/d      | 3,419     |
| Percentage of oil production  | 90%       |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |              |
|--------------|--------------|
| Primary      | 4,139        |
| Secondary    | 3,785        |
| <b>Total</b> | <b>7,924</b> |

### Natural gas stripper wells

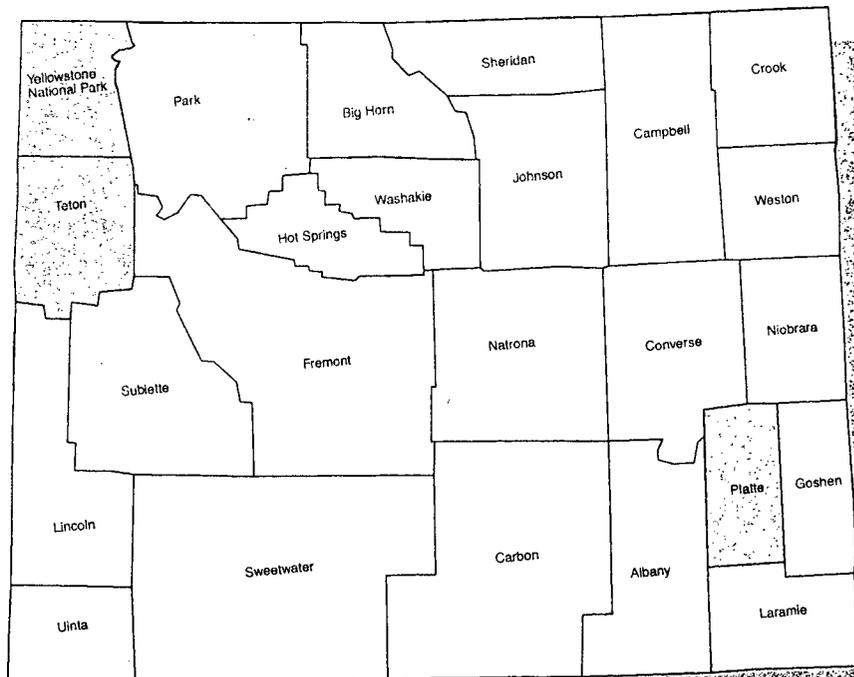
as of 1/1/03

|                               |             |
|-------------------------------|-------------|
| Producing stripper wells      | 37,528      |
| Stripper well abandonments    | 200         |
| Natural gas production in Mcf | 208,775,000 |

### Federal Onshore Mineral Lease Royalties

|                        |                  |
|------------------------|------------------|
| Oil                    | --               |
| Gas                    | \$286,144        |
| <b>Total Royalties</b> | <b>\$572,661</b> |

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### Background Information

#### Counties

|                                |    |
|--------------------------------|----|
| Number of counties             | 23 |
| With oil and/or gas production | 20 |

#### First year of production

|             |      |
|-------------|------|
| Crude oil   | 1894 |
| Natural gas | 1889 |

#### Year and amount of peak production

|                                  |      |
|----------------------------------|------|
| Crude oil — 160,345 thous. bbls. | 1970 |
| Natural gas — 1,539,318 MMcf     | 2003 |

#### Deepest producing well (ft.)

|             |        |
|-------------|--------|
| Crude oil   | 19,612 |
| Natural gas | 24,938 |

#### Year and depth of deepest well drilled (ft.)

|      |        |
|------|--------|
| 1979 | 25,764 |
|------|--------|

#### Cumulative number of total wells drilled

as of 12/31/03 (excluding service wells)

|              |               |             |
|--------------|---------------|-------------|
| Oil wells    | 28,937        | 37%         |
| Gas wells    | 24,686        | 32%         |
| Dry holes    | 24,004        | 31%         |
| <b>Total</b> | <b>77,627</b> | <b>100%</b> |

#### Cumulative crude oil wellhead value

as of 12/31/03 (thous. \$) \$63,448,891

#### Cumulative production & new reserves

production as of 12/31/03, reserves as of 12/31/02

|            | Crude Oil | NGL (mill. bbls) | Total | Natural Gas (Bcf) |
|------------|-----------|------------------|-------|-------------------|
| Reserves   | 6,942     | 1,759            | 8,701 | 43,707            |
| Production | 6,575     | 1,077            | 7,652 | 26,772            |

Counties with oil and/or gas production

### Value of Oil and Gas

#### Average wellhead price

(2003)

|                      |         |
|----------------------|---------|
| Crude oil (\$/bbl.)  | \$26.63 |
| Natural gas (\$/Mcf) | \$4.13  |

#### Wellhead value of production

(2003, in thous. \$)

|              |                    |
|--------------|--------------------|
| Crude oil    | \$1,396,877        |
| Natural gas  | \$6,357,383        |
| <b>Total</b> | <b>\$7,754,260</b> |

#### Average natural gas price

(2003, \$/Mcf)

|                       |        |
|-----------------------|--------|
| Residential consumers | \$7.14 |
| Commercial consumers  | \$5.69 |
| Industrial consumers  | \$6.12 |
| Electric utilities    | \$3.57 |
| City Gate             | \$2.52 |

#### Severance taxes paid

(2003, in thous. \$)

\$370,381

## 2003 Industry Statistics

### Number of wells drilled

|              | Exploratory | Development  | Total        |
|--------------|-------------|--------------|--------------|
| Oil          | 9           | 144          | 153          |
| Gas          | 87          | 2,573        | 2,660        |
| Dry          | 43          | 45           | 88           |
| Service      | --          | 42           | 42           |
| <b>Total</b> | <b>139</b>  | <b>2,804</b> | <b>2,943</b> |

### Total footage drilled

(thous. ft.)

|              | Exploratory    | Development    | Total           |
|--------------|----------------|----------------|-----------------|
| Oil          | 76.4           | 636.1          | 712.5           |
| Gas          | 905.8          | 8,191.7        | 9,097.5         |
| Dry          | 256.7          | 426.8          | 683.5           |
| Service      | --             | 212.0          | 212.0           |
| <b>Total</b> | <b>1,238.9</b> | <b>9,466.6</b> | <b>10,705.5</b> |

(Note: Totals may not add due to rounding.)

### New-field wildcats drilled

81

Footage (thous. ft.) 694.0

### Average rotary rigs active

54

### State-wide rank

|                 | Crude Oil | Natural Gas |
|-----------------|-----------|-------------|
| Wells drilled   | 11th      | 2nd         |
| Production      | 8th       | 5th         |
| Reserves (2002) | 7th       | 3rd         |

### Number of producing wells

(12/31/03)

|                 |               |
|-----------------|---------------|
| Crude oil       | 9,932         |
| Flowing         | 322           |
| Artificial lift | 9,610         |
| Natural gas     | 23,217        |
| <b>Total</b>    | <b>33,149</b> |

### Average production

|              | thous. bbls.  | thous. b/d |
|--------------|---------------|------------|
| Crude oil    | 52,455        | 144        |
| NGL (est.)   | 40,352        | 111        |
| <b>Total</b> | <b>92,807</b> | <b>254</b> |

### Natural gas marketed production

(MMcf)

1,539,318

### Average output per producing well

|                   |        |
|-------------------|--------|
| Crude oil (bbls.) | 5,281  |
| Natural gas (Mcf) | 66,301 |

### Average number of employees

|                                |        |
|--------------------------------|--------|
| Oil and natural gas extraction | 10,614 |
| Refining                       | 842    |
| Transportation                 | 741    |
| Wholesale                      | 431    |
| Retail                         | 4,207  |
| Total petroleum industry       | 16,835 |

## 2002 Latest Available Data

### Petroleum reserves

as of 12/31/02 (mill. bbls.) \*Combined with Utah

|                   | Crude Oil | NGL* | Total |
|-------------------|-----------|------|-------|
| New reserves      | 81        | 107  | 188   |
| Production        | 46        | 66   | 112   |
| Net annual change | 35        | 41   | 76    |
| Proved reserves   | 524       | 938  | 1,462 |

### Natural gas reserves

as of 12/31/02 (Bcf)

|                   | Associated<br>Dissolved | Non-<br>Associated | Dry<br>Gas |
|-------------------|-------------------------|--------------------|------------|
| New reserves      | 154                     | 3,434              | 3,517      |
| Production        | 81                      | 1,375              | 1,388      |
| Net annual change | 73                      | 2,059              | 2,129      |
| Proved reserves   | 561                     | 20,970             | 20,527     |

### Cost of drilling and equipping wells

|              | Cost/ft.<br>(\$) | Cost/<br>well (\$) | Total Cost<br>(thous. \$) |
|--------------|------------------|--------------------|---------------------------|
| Oil          | 156.60           | 709,425            | 56,754                    |
| Gas          | 167.49           | 412,050            | 1,206,069                 |
| Dry          | 190.56           | 1,225,533          | 128,681                   |
| <b>Total</b> | <b>168.90</b>    | <b>447,142</b>     | <b>1,391,505</b>          |

### Stripper wells

|                               |           |
|-------------------------------|-----------|
| Producing stripper wells      | 11,416    |
| Stripper well abandonments    | 228       |
| Crude oil production in bbls. | 8,430,429 |
| Crude oil production b/d      | 23,097    |
| Percentage of oil production  | 15%       |

### Stripper oil reserves

as of 1/1/03 (thous. bbls.)

|              |               |
|--------------|---------------|
| Primary      | 38,250        |
| Secondary    | 36,750        |
| <b>Total</b> | <b>75,000</b> |

### Natural gas stripper wells

as of 1/1/03

|                               |            |
|-------------------------------|------------|
| Producing stripper wells      | 11,817     |
| Stripper well abandonments    | 101        |
| Natural gas production in Mcf | 56,002,994 |

### Federal Onshore Mineral Lease Royalties

|                        |                        |
|------------------------|------------------------|
| Oil                    | \$78,687,666           |
| Gas                    | \$189,085,514          |
| <b>Total Royalties</b> | <b>\$1,696,298,826</b> |

For more information please contact: Information Services  
Department, Independent Petroleum Association of America,  
1201 15th St., N.W., Suite 300, Washington, D.C. 20005  
202-857-4722, FAX: 202-857-4799

# Rotary Rigs Operating

|                   | 1994       | 1995       | 1996       | 1997       | 1998       | 1999       | 2000       | 2001         | 2002       | 2003         |
|-------------------|------------|------------|------------|------------|------------|------------|------------|--------------|------------|--------------|
| Alabama           | 9          | 8          | 5          | 4          | 6          | 6          | 4          | 5            | 3          | 3            |
| Alaska            | 10         | 11         | 10         | 11         | 12         | 5          | 8          | 13           | 11         | 10           |
| Arizona           | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0            | 0          | 0            |
| Arkansas          | 9          | 11         | 9          | 10         | 6          | 3          | 4          | 2            | 1          | 2            |
| California        | 31         | 28         | 27         | 32         | 28         | 19         | 24         | 36           | 23         | 22           |
| Colorado          | 30         | 15         | 14         | 16         | 13         | 13         | 18         | 32           | 28         | 39           |
| Florida           | 1          | 1          | 1          | 0          | 0          | 0          | 0          | 0            | 0          | 1            |
| Illinois          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0            | 0          | 0            |
| Indiana           | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0            | 1          | 0            |
| Kansas            | 33         | 29         | 24         | 19         | 13         | 7          | 22         | 23           | 8          | 9            |
| Kentucky          | 3          | 2          | 3          | 5          | 3          | 6          | 5          | 6            | 5          | 4            |
| Louisiana         | 132        | 141        | 156        | 194        | 187        | 141        | 194        | 214          | 163        | 157          |
| Michigan          | 7          | 7          | 4          | 0          | 5          | 0          | 3          | 1            | 1          | 3            |
| Mississippi       | 8          | 7          | 9          | 6          | 14         | 2          | 11         | 14           | 8          | 8            |
| Montana           | 6          | 7          | 8          | 13         | 9          | 7          | 7          | 10           | 8          | 14           |
| Nebraska          | 1          | 0          | 0          | 1          | 1          | 4          | 1          | 0            | 0          | 0            |
| Nevada            | 2          | 1          | 1          | 0          | 0          | 0          | 0          | 0            | 0          | 1            |
| New Mexico        | 36         | 37         | 35         | 53         | 45         | 36         | 68         | 68           | 42         | 65           |
| New York          | 0          | 1          | 2          | 1          | 2          | 3          | 3          | 5            | 4          | 3            |
| North Dakota*     | 7          | 12         | 19         | 18         | 11         | 6          | 13         | 14           | 11         | 14           |
| Ohio              | 9          | 10         | 8          | 9          | 10         | 11         | 9          | 10           | 9          | 8            |
| Oklahoma          | 106        | 96         | 106        | 104        | 85         | 62         | 99         | 130          | 91         | 129          |
| Oregon            | 0          | 1          | 0          | 0          | 0          | 0          | 0          | 0            | 0          | 0            |
| Pennsylvania      | 10         | 8          | 11         | 10         | 11         | 8          | 9          | 11           | 11         | 10           |
| South Dakota      | 0          | 1          | 1          | 1          | 0          | 1          | 0          | 1            | 0          | 0            |
| Texas             | 274        | 251        | 283        | 358        | 303        | 227        | 343        | 462          | 338        | 449          |
| Utah              | 7          | 8          | 9          | 14         | 12         | 9          | 16         | 21           | 13         | 14           |
| Virginia          | 2          | 1          | 1          | 2          | 2          | 5          | 2          | 2            | 2          | 1            |
| West Virginia     | 11         | 10         | 12         | 15         | 14         | 14         | 14         | 18           | 13         | 16           |
| Wyoming           | 33         | 24         | 24         | 39         | 38         | 32         | 41         | 55           | 40         | 54           |
| Other             | 1          | 0          | 0          | 1          | 1          | 0          | 0          | 2            | 0          | 1            |
| <b>TOTAL U.S.</b> | <b>775</b> | <b>723</b> | <b>779</b> | <b>943</b> | <b>827</b> | <b>625</b> | <b>918</b> | <b>1,156</b> | <b>830</b> | <b>1,032</b> |
| <b>ONSHORE</b>    | <b>672</b> | <b>622</b> | <b>669</b> | <b>820</b> | <b>703</b> | <b>517</b> | <b>779</b> | <b>1,002</b> | <b>716</b> | <b>923</b>   |
| <b>OFFSHORE</b>   | <b>103</b> | <b>101</b> | <b>110</b> | <b>123</b> | <b>124</b> | <b>107</b> | <b>139</b> | <b>154</b>   | <b>114</b> | <b>109</b>   |

Source: Baker-Hughes and state data\*

Note: Data represent annual averages and include offshore rigs. Totals may not add due to rounding.

# New-Field Wildcat Wells Drilled

|                   | 1994         | 1995         | 1996         | 1997         | 1998         | 1999         | 2000         | 2001         | 2002         | 2003         |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Alabama           | 37           | 37           | 33           | 27           | 18           | 19           | 17           | 17           | 15           | 19           |
| Alaska            | 7            | 6            | 8            | 10           | 11           | 5            | 9            | 10           | 10           | 10           |
| Arizona           | 0            | 4            | 0            | 4            | 7            | 0            | 0            | 0            | 1            | 0            |
| Arkansas          | 10           | 28           | 19           | 22           | 15           | 13           | 12           | 18           | 10           | 10           |
| California        | 10           | 14           | 38           | 30           | 22           | 33           | 37           | 34           | 31           | 15           |
| Colorado          | 94           | 130          | 91           | 78           | 58           | 51           | 42           | 65           | 39           | 47           |
| Florida           | 0            | 0            | 1            | 0            | 0            | 0            | 0            | 0            | 0            | 0            |
| Illinois          | 44           | 33           | 38           | 57           | 25           | 17           | 22           | 37           | 18           | 30           |
| Indiana           | 6            | 15           | 35           | 19           | 21           | 8            | 5            | 19           | 10           | 18           |
| Kansas            | 166          | 152          | 179          | 180          | 118          | 85           | 140          | 210          | 166          | 151          |
| Kentucky          | 22           | 47           | 30           | 31           | 13           | 3            | 2            | 1            | 1            | 0            |
| Louisiana         | 95           | 128          | 156          | 175          | 104          | 117          | 176          | 148          | 143          | 138          |
| Michigan          | 62           | 40           | 52           | 55           | 44           | 25           | 20           | 19           | 25           | 21           |
| Mississippi       | 66           | 35           | 34           | 30           | 27           | 29           | 26           | 21           | 37           | 33           |
| Missouri          | 0            | 0            | 1            | 0            | 1            | 2            | 0            | 1            | 2            | 0            |
| Montana           | 31           | 53           | 57           | 65           | 62           | 45           | 56           | 87           | 96           | 116          |
| Nebraska          | 29           | 22           | 15           | 23           | 15           | 9            | 13           | 12           | 14           | 15           |
| Nevada            | 13           | 17           | 18           | 8            | 6            | 1            | 2            | 1            | 2            | 2            |
| New Mexico        | 24           | 25           | 35           | 35           | 27           | 30           | 32           | 47           | 23           | 43           |
| New York*         | 1            | 1            | 3            | 1            | 5            | 6            | 9            | 25           | 32           | 9            |
| North Dakota*     | 21           | 45           | 73           | 42           | 25           | 18           | 18           | 17           | 9            | 6            |
| Ohio*             | 29           | 28           | 26           | 8            | 21           | 1            | 0            | 5            | 6            | 2            |
| Oklahoma          | 73           | 74           | 91           | 97           | 59           | 57           | 65           | 91           | 67           | 89           |
| Oregon            | 0            | 0            | 0            | 0            | 1            | 0            | 0            | 0            | 0            | 0            |
| Pennsylvania      | 4            | 3            | 0            | 1            | 2            | 4            | 4            | 23           | 15           | 36           |
| South Dakota*     | 3            | 1            | 8            | 8            | 5            | 1            | 2            | 0            | 6            | 5            |
| Tennessee         | 4            | 4            | 8            | 4            | 1            | 7            | 6            | 6            | NA           | 0            |
| Texas             | 520          | 534          | 479          | 534          | 557          | 452          | 523          | 427          | 351          | 424          |
| Utah              | 9            | 21           | 29           | 14           | 22           | 14           | 5            | 18           | 30           | 10           |
| Virginia          | 0            | 0            | 0            | 0            | 0            | 1            | 6            | 4            | 5            | 5            |
| West Virginia     | 3            | 2            | 0            | 0            | 2            | 5            | 10           | 29           | 25           | 12           |
| Wyoming           | 44           | 87           | 79           | 155          | 106          | 93           | 81           | 75           | 75           | 81           |
| Federal Offshore  | 176          | 120          | 151          | 156          | 50           | 111          | 205          | 216          | 139          | 164          |
| Other             | 0            | 0            | 0            | 1            | 1            | 1            | 0            | 2            | 0            | 0            |
| <b>TOTAL U.S.</b> | <b>1,613</b> | <b>1,605</b> | <b>1,676</b> | <b>1,757</b> | <b>1,478</b> | <b>1,244</b> | <b>1,435</b> | <b>1,576</b> | <b>1,324</b> | <b>1,420</b> |

Source: American Petroleum Institute and state data\*

Note: Data include oil wells, gas wells, and dry holes and may not total due to Federal Offshore data duplication.

# Exploratory Wells Drilled

|                   | 1994         | 1995         | 1996         | 1997         | 1998         | 1999         | 2000         | 2001         | 2002         | 2003         |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Alabama           | 38           | 48           | 44           | 29           | 18           | 20           | 17           | 19           | 16           | 24           |
| Alaska            | 8            | 8            | 9            | 11           | 12           | 5            | 10           | 16           | 14           | 14           |
| Arizona           | 0            | 6            | 0            | 4            | 8            | 0            | 0            | 0            | 1            | 0            |
| Arkansas          | 14           | 33           | 23           | 24           | 15           | 13           | 13           | 22           | 10           | 12           |
| California        | 9            | 49           | 65           | 65           | 63           | 67           | 70           | 68           | 65           | 28           |
| Colorado          | 160          | 214          | 150          | 116          | 124          | 119          | 80           | 127          | 57           | 81           |
| Florida           | 0            | 0            | 1            | 0            | 0            | 0            | 0            | 0            | 0            | 0            |
| Illinois          | 93           | 78           | 98           | 119          | 75           | 40           | 61           | 45           | 37           | 41           |
| Indiana           | 26           | 35           | 80           | 52           | 46           | 21           | 10           | 19           | 12           | 29           |
| Kansas            | 482          | 430          | 395          | 280          | 167          | 139          | 234          | 395          | 282          | 274          |
| Kentucky          | 71           | 114          | 77           | 76           | 52           | 9            | 4            | 1            | 1            | 0            |
| Louisiana         | 192          | 131          | 163          | 195          | 173          | 162          | 181          | 150          | 152          | 148          |
| Michigan          | 86           | 53           | 60           | 57           | 48           | 32           | 23           | 25           | 31           | 24           |
| Mississippi       | 79           | 50           | 56           | 41           | 28           | 31           | 32           | 29           | 42           | 41           |
| Missouri          | 0            | 0            | 1            | 0            | 0            | 2            | 0            | 1            | 2            | 0            |
| Montana           | 51           | 68           | 69           | 98           | 105          | 58           | 98           | 170          | 157          | 180          |
| Nebraska          | 39           | 38           | 27           | 37           | 18           | 17           | 28           | 18           | 17           | 22           |
| Nevada            | 16           | 19           | 19           | 9            | 7            | 1            | 2            | 2            | 2            | 2            |
| New Mexico        | 64           | 70           | 85           | 100          | 100          | 70           | 61           | 86           | 59           | 75           |
| New York*         | 1            | 1            | 4            | 2            | 7            | 18           | 22           | 31           | 35           | 33           |
| North Dakota*     | 43           | 88           | 134          | 114          | 61           | 36           | 48           | 48           | 22           | 5            |
| Ohio*             | 154          | 123          | 106          | 73           | 52           | 23           | 25           | 29           | 27           | 48           |
| Oklahoma          | 268          | 283          | 183          | 148          | 81           | 67           | 101          | 171          | 107          | 198          |
| Oregon            | 0            | 0            | 1            | 0            | 1            | 2            | 0            | 0            | 0            | 0            |
| Pennsylvania      | 7            | 8            | 3            | 1            | 4            | 11           | 10           | 32           | 29           | 68           |
| South Dakota*     | 5            | 5            | 13           | 11           | 6            | 2            | 3            | 0            | 6            | 2            |
| Tennessee         | 6            | 10           | 10           | 13           | 5            | 11           | 15           | 7            | NA           | 0            |
| Texas             | 1,437        | 1,219        | 1,176        | 1,179        | 963          | 755          | 808          | 910          | 683          | 737          |
| Utah              | 15           | 37           | 50           | 33           | 44           | 22           | 18           | 69           | 41           | 33           |
| Virginia          | 0            | 0            | 0            | 0            | 0            | 1            | 8            | 4            | 8            | 6            |
| West Virginia     | 6            | 2            | 1            | 7            | 8            | 18           | 26           | 70           | 81           | 30           |
| Wyoming           | 63           | 103          | 107          | 196          | 179          | 148          | 146          | 177          | 149          | 139          |
| Federal Offshore  | 174          | 120          | 152          | 174          | 146          | 171          | 206          | 212          | 139          | 164          |
| Other             | 0            | 0            | 0            | 1            | 1            | 1            | 0            | 2            | 0            | 0            |
| <b>TOTAL U.S.</b> | <b>3,471</b> | <b>3,342</b> | <b>3,250</b> | <b>3,137</b> | <b>2,510</b> | <b>1,997</b> | <b>2,250</b> | <b>2,851</b> | <b>2,205</b> | <b>2,367</b> |

Source: American Petroleum Institute and state data\*

Note: Data include oil wells, gas wells, and dry holes and may not total due to Federal Offshore data duplication.

# Development Wells Drilled

|                   | 1994          | 1995          | 1996          | 1997          | 1998          | 1999          | 2000          | 2001          | 2002          | 2003          |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Alabama           | 95            | 128           | 184           | 92            | 145           | 202           | 145           | 346           | 233           | 309           |
| Alaska            | 7             | 157           | 181           | 217           | 221           | 148           | 138           | 169           | 170           | 187           |
| Arizona           | 0             | 1             | 0             | 0             | 0             | 1             | 0             | 0             | 0             | 0             |
| Arkansas          | 213           | 182           | 192           | 208           | 174           | 137           | 153           | 227           | 143           | 213           |
| California        | 793           | 1,244         | 1,631         | 2,386         | 2,091         | 1,479         | 2,064         | 2,134         | 1,918         | 1,863         |
| Colorado          | 886           | 654           | 500           | 658           | 701           | 591           | 940           | 1,380         | 1,336         | 1,504         |
| Florida           | 0             | 1             | 2             | 3             | 0             | 0             | 4             | 0             | 1             | 0             |
| Illinois          | 255           | 287           | 290           | 313           | 159           | 121           | 295           | 274           | 209           | 180           |
| Indiana           | 39            | 71            | 82            | 78            | 53            | 32            | 42            | 108           | 70            | 121           |
| Kansas            | 1,051         | 1,065         | 1,077         | 1,379         | 695           | 484           | 853           | 1,060         | 881           | 1,280         |
| Kentucky          | 516           | 649           | 555           | 652           | 464           | 109           | 16            | 22            | 17            | 4             |
| Louisiana         | 661           | 1,176         | 1,383         | 1,802         | 1,668         | 1,474         | 1,686         | 1,817         | 1,193         | 1,353         |
| Michigan          | 422           | 820           | 698           | 606           | 520           | 300           | 364           | 388           | 324           | 332           |
| Mississippi       | 101           | 105           | 124           | 152           | 157           | 89            | 187           | 240           | 169           | 238           |
| Missouri          | 1             | 0             | 9             | 0             | 1             | 2             | 2             | 0             | 0             | 1             |
| Montana           | 111           | 149           | 146           | 341           | 238           | 367           | 415           | 405           | 385           | 638           |
| Nebraska          | 16            | 9             | 19            | 44            | 14            | 3             | 11            | 14            | 14            | 16            |
| Nevada            | 2             | 7             | 3             | 3             | 2             | 1             | 0             | 2             | 2             | 0             |
| New Mexico        | 734           | 935           | 996           | 1,143         | 1,073         | 955           | 1,440         | 1,551         | 1,200         | 1,520         |
| New York*         | 39            | 32            | 82            | 32            | 48            | 62            | 59            | 143           | 81            | 64            |
| North Dakota*     | 32            | 62            | 107           | 160           | 109           | 40            | 119           | 158           | 152           | 114           |
| Ohio*             | 585           | 548           | 621           | 658           | 503           | 459           | 510           | 685           | 487           | 466           |
| Oklahoma          | 1,548         | 1,514         | 1,885         | 2,100         | 1,768         | 1,522         | 2,112         | 2,920         | 2,310         | 2,681         |
| Oregon            | 0             | 0             | 0             | 0             | 2             | 6             | 0             | 0             | 0             | 0             |
| Pennsylvania      | 534           | 562           | 766           | 985           | 850           | 770           | 1,447         | 2,134         | 2,158         | 2,236         |
| South Dakota*     | 0             | 2             | 12            | 4             | 1             | 4             | 5             | 9             | 4             | 0             |
| Tennessee         | 66            | 42            | 50            | 52            | 74            | 108           | 129           | 55            | NA            | 6             |
| Texas             | 6,454         | 6,738         | 7,313         | 8,971         | 6,769         | 4,812         | 6,944         | 8,154         | 6,551         | 8,492         |
| Utah              | 82            | 193           | 235           | 365           | 455           | 220           | 428           | 548           | 387           | 385           |
| Virginia          | 96            | 53            | 119           | 127           | 88            | 126           | 215           | 294           | 216           | 192           |
| West Virginia     | 600           | 383           | 547           | 668           | 715           | 614           | 597           | 836           | 811           | 857           |
| Wyoming           | 455           | 530           | 527           | 995           | 1,043         | 2,091         | 4,782         | 5,311         | 3,061         | 2,762         |
| Federal Offshore  | 502           | 472           | 450           | 741           | 728           | 900           | 873           | 902           | 532           | 521           |
| Other             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL U.S.</b> | <b>16,884</b> | <b>18,353</b> | <b>20,399</b> | <b>25,287</b> | <b>20,890</b> | <b>17,491</b> | <b>26,241</b> | <b>31,576</b> | <b>24,595</b> | <b>28,110</b> |

Source: American Petroleum Institute and state data\*

Note: Data include oil wells, gas wells, and dry holes and may not total due to Federal Offshore data duplication.

# Total Wells Drilled

|                   | 1994          | 1995          | 1996          | 1997          | 1998          | 1999          | 2000          | 2001          | 2002          | 2003          |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Alabama           | 133           | 176           | 228           | 121           | 163           | 222           | 162           | 365           | 249           | 333           |
| Alaska            | 10            | 174           | 207           | 267           | 286           | 153           | 148           | 185           | 224           | 231           |
| Arizona           | 0             | 7             | 0             | 4             | 8             | 1             | 0             | 0             | 1             | 0             |
| Arkansas          | 227           | 215           | 215           | 235           | 189           | 150           | 166           | 249           | 153           | 225           |
| California        | 797           | 1,656         | 1,969         | 2,891         | 2,548         | 1,546         | 2,134         | 2,202         | 2,396         | 2,278         |
| Colorado          | 1,007         | 873           | 651           | 785           | 828           | 710           | 1,020         | 1,507         | 1,397         | 1,590         |
| Florida           | 0             | 1             | 3             | 3             | 0             | 0             | 4             | 0             | 1             | 0             |
| Illinois          | 345           | 368           | 395           | 444           | 259           | 161           | 356           | 319           | 259           | 244           |
| Indiana           | 63            | 115           | 168           | 139           | 105           | 53            | 52            | 127           | 93            | 157           |
| Kansas            | 1,524         | 1,552         | 1,523         | 1,728         | 890           | 623           | 1,087         | 1,455         | 1,205         | 1,599         |
| Kentucky          | 578           | 765           | 634           | 730           | 516           | 118           | 20            | 23            | 18            | 4             |
| Louisiana         | 754           | 1,307         | 1,547         | 2,000         | 1,841         | 1,636         | 1,867         | 1,967         | 1,351         | 1,501         |
| Michigan          | 488           | 873           | 758           | 663           | 568           | 332           | 387           | 413           | 355           | 356           |
| Mississippi       | 180           | 155           | 181           | 193           | 187           | 120           | 219           | 269           | 211           | 279           |
| Missouri          | 1             | 0             | 11            | 7             | 2             | 4             | 2             | 1             | 2             | 1             |
| Montana           | 154           | 222           | 215           | 440           | 344           | 425           | 513           | 575           | 561           | 839           |
| Nebraska          | 49            | 48            | 46            | 82            | 33            | 20            | 39            | 32            | 32            | 38            |
| Nevada            | 13            | 26            | 22            | 12            | 9             | 2             | 2             | 4             | 4             | 2             |
| New Mexico        | 793           | 1,041         | 1,103         | 1,273         | 1,188         | 1,025         | 1,501         | 1,637         | 1,275         | 1,601         |
| New York*         | 39            | 45            | 86            | 34            | 55            | 80            | 81            | 174           | 148           | 99            |
| North Dakota*     | 71            | 151           | 245           | 275           | 174           | 76            | 167           | 206           | 179           | 119           |
| Ohio*             | 732           | 673           | 727           | 731           | 555           | 482           | 535           | 714           | 515           | 516           |
| Oklahoma          | 1,815         | 1,807         | 2,111         | 2,275         | 1,869         | 1,589         | 2,213         | 3,091         | 2,438         | 2,901         |
| Oregon            | 0             | 0             | 1             | 0             | 3             | 8             | 0             | 0             | 0             | 0             |
| Pennsylvania      | 541           | 573           | 769           | 992           | 855           | 781           | 1,457         | 2,166         | 2,187         | 2,304         |
| South Dakota*     | 3             | 7             | 25            | 15            | 8             | 6             | 8             | 9             | 10            | 9             |
| Tennessee*        | 72            | 52            | 60            | 65            | 80            | 119           | 144           | 62            | 110           | 6             |
| Texas             | 7,881         | 8,195         | 8,787         | 10,475        | 7,930         | 5,567         | 7,752         | 9,064         | 7,397         | 9,436         |
| Utah              | 95            | 236           | 316           | 438           | 537           | 242           | 446           | 617           | 431           | 418           |
| Virginia          | 96            | 54            | 119           | 127           | 88            | 127           | 223           | 298           | 224           | 198           |
| West Virginia     | 606           | 401           | 582           | 697           | 724           | 632           | 623           | 906           | 892           | 903           |
| Wyoming           | 502           | 749           | 745           | 1,233         | 1,280         | 2,239         | 4,928         | 5,488         | 3,223         | 2,945         |
| Federal Offshore  | 674           | 592           | 602           | 916           | 874           | 1,071         | 1,079         | 1,118         | 677           | 688           |
| Other             | 0             | 0             | 0             | 1             | 1             | 1             | 0             | 3             | 0             | 0             |
| <b>TOTAL U.S.</b> | <b>20,190</b> | <b>22,590</b> | <b>24,552</b> | <b>29,514</b> | <b>24,250</b> | <b>19,488</b> | <b>28,491</b> | <b>34,427</b> | <b>27,711</b> | <b>31,311</b> |

Source: American Petroleum Institute and state data\*

Note: Data include oil wells, gas wells, and dry holes and may not total due to Federal Offshore data duplication.

# Producing Crude Oil Wells

|                   | 1994           | 1995           | 1996           | 1997           | 1998           | 1999           | 2000           | 2001           | 2002           | 2003           |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Alabama           | 886            | 913            | 827            | 827            | 794            | 808            | 820            | 823            | 812            | 810            |
| Alaska            | 1,673          | 2,086          | 2,128          | 1,789          | 1,828          | 1,824          | 1,852          | 2,059          | 2,080          | 1,943          |
| Arizona           | 21             | 22             | 23             | 25             | 27             | 25             | 25             | 25             | 20             | 17             |
| Arkansas          | 8,523          | 7,834          | 7,871          | 7,467          | 7,345          | 7,297          | 7,267          | 7,150          | 6,935          | 6,727          |
| California        | 39,330         | 39,365         | 40,531         | 41,495         | 41,102         | 40,110         | 42,604         | 43,078         | 42,713         | 46,350         |
| Colorado          | 7,868          | 8,022          | 9,762          | 9,068          | 9,000          | 7,500          | 7,000          | 5,788          | 5,643          | 6,150          |
| Florida           | 85             | 85             | 92             | 95             | 85             | 77             | 70             | 72             | 73             | 70             |
| Illinois          | 31,380         | 31,128         | 30,799         | 30,681         | 30,265         | 25,000         | 20,010         | 17,912         | 17,410         | 16,737         |
| Indiana*          | 7,238          | 7,135          | 5,190          | 5,273          | 5,200          | 5,042          | 5,026          | 4,874          | 4,956          | 5,001          |
| Kansas            | 42,298         | 44,235         | 44,776         | 44,832         | 43,000         | 44,000         | 43,472         | 42,350         | 41,207         | 40,500         |
| Kentucky          | 23,578         | 23,538         | 23,538         | 23,628         | 23,548         | 23,140         | 29,300         | 29,557         | 28,522         | 18,166         |
| Louisiana         | 26,850         | 24,430         | 24,402         | 24,074         | 27,486         | 27,678         | 27,950         | 27,250         | 26,814         | 20,184         |
| Michigan          | 4,035          | 4,079          | 3,746          | 3,685          | 3,620          | 3,380          | 3,329          | 3,700          | 3,730          | 3,800          |
| Mississippi       | 1,523          | 1,516          | 1,567          | 1,532          | 1,450          | 1,500          | 1,490          | 1,484          | 1,474          | 1,482          |
| Missouri          | 370            | 518            | 394            | 449            | 301            | 304            | 317            | 332            | 364            | 297            |
| Montana           | 4,220          | 3,100          | 3,040          | 3,738          | 3,706          | 3,250          | 3,088          | 3,110          | 2,979          | 3,645          |
| Nebraska          | 2,050          | 1,489          | 1,445          | 1,481          | 1,251          | 1,160          | 1,170          | 1,176          | 1,155          | 1,595          |
| Nevada            | 62             | 72             | 63             | 67             | 74             | 81             | 67             | 67             | 65             | 63             |
| New Mexico        | 18,141         | 17,976         | 18,397         | 19,022         | 19,878         | 20,572         | 17,157         | 18,158         | 18,076         | 27,527         |
| New York*         | 3,757          | 3,670          | 3,041          | 3,360          | 3,739          | 3,463          | 2,802          | 2,876          | 3,106          | 2,763          |
| North Dakota*     | 3,495          | 3,171          | 3,201          | 3,380          | 3,322          | 3,285          | 3,185          | 3,395          | 3,207          | 3,118          |
| Ohio*             | 29,792         | 29,622         | 29,622         | 29,276         | 29,183         | 29,149         | 29,095         | 29,095         | 28,309         | 29,039         |
| Oklahoma          | 92,377         | 91,289         | 90,557         | 88,144         | 86,765         | 84,908         | 84,515         | 84,252         | 81,724         | 83,389         |
| Pennsylvania      | 19,077         | 18,157         | 18,305         | 18,621         | 16,500         | 16,000         | 15,050         | 16,750         | 16,331         | 16,404         |
| South Dakota*     | 143            | 150            | 145            | 147            | 147            | 129            | 160            | 155            | 155            | 147            |
| Tennessee         | 850            | 701            | 714            | 790            | 700            | 700            | 625            | 550            | 510            | 420            |
| Texas             | 179,643        | 174,527        | 175,532        | 174,670        | 168,237        | 163,600        | 154,104        | 159,240        | 157,565        | 154,428        |
| Utah              | 1,802          | 1,851          | 1,976          | 1,990          | 1,992          | 1,865          | 1,910          | 1,960          | 1,927          | 1,995          |
| West Virginia     | 15,750         | 17,436         | 16,869         | 18,000         | 15,550         | 16,300         | 15,900         | 8,450          | 8,028          | 6,278          |
| Wyoming           | 9,980          | 10,368         | 10,782         | 10,283         | 10,167         | 9,900          | 9,650          | 10,160         | 9,855          | 9,610          |
| Federal Waters    | 4,856          | 4,975          | 5,060          | 5,164          | 5,190          | 3,620          | 3,700          | 3,792          | 3,629          | 4,078          |
| Other             | 23             | 23             | 21             | 17             | 21             | 14             | 15             | 8              | 8              | 8              |
| <b>Total U.S.</b> | <b>581,676</b> | <b>573,483</b> | <b>574,416</b> | <b>573,070</b> | <b>561,473</b> | <b>545,681</b> | <b>532,725</b> | <b>529,648</b> | <b>519,382</b> | <b>512,671</b> |

Source: World Oil and state data\*

Note: Data include wells on artificial lift and flowing. Figures quoted as of December 31 each year. Post-1999 numbers reflect lower levels than previous years due to change in MMS (OCS) counting methods, which now exclude shut-ins.

Other: Virginia

# Producing Natural Gas Wells

|                   | 1994           | 1995           | 1996           | 1997           | 1998           | 1999           | 2000           | 2001           | 2002           | 2003           |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Alabama           | 3,422          | 3,455          | 3,284          | 3,359          | 3,389          | 3,365          | 3,418          | 3,649          | 3,814          | 4,101          |
| Alaska            | 108            | 109            | 107            | 101            | 111            | 102            | 100            | 126            | 130            | 124            |
| Arkansas          | 3,092          | 3,988          | 4,020          | 4,378          | 4,453          | 4,561          | 4,612          | 4,825          | 4,922          | 3,995          |
| California        | 1,054          | 962            | 966            | 920            | 933            | 942            | 885            | 1,050          | 1,065          | 1,190          |
| Colorado          | 6,440          | 7,259          | 8,251          | 7,637          | 8,200          | 8,500          | 10,815         | 13,283         | 16,209         | 16,250         |
| Illinois          | 390            | 372            | 370            | 372            | 300            | 300            | 280            | 250            | 225            | 240            |
| Indiana*          | 1,341          | 1,330          | 877            | 654            | 900            | 1,250          | 1,502          | 1,439          | 1,545          | 1,720          |
| Kansas            | 14,456         | 14,878         | 15,523         | 14,966         | 15,000         | 15,000         | 15,500         | 16,250         | 15,925         | 18,639         |
| Kentucky          | 13,052         | 13,311         | 13,501         | 13,501         | 13,825         | 14,381         | 15,000         | 19,387         | 14,367         | 12,551         |
| Louisiana         | 12,958         | 14,169         | 14,995         | 14,958         | 14,680         | 15,500         | 15,700         | 16,350         | 16,988         | 15,694         |
| Michigan          | 4,082          | 4,621          | 5,826          | 5,775          | 6,300          | 6,000          | 6,500          | 7,600          | 7,680          | 8,500          |
| Mississippi       | 542            | 518            | 548            | 532            | 540            | 560            | 690            | 811            | 856            | 1,178          |
| Montana           | 3,075          | 3,000          | 2,990          | 3,241          | 3,250          | 3,300          | 3,538          | 3,725          | 3,844          | 5,371          |
| Nebraska          | 78             | 78             | 78             | 75             | 95             | 97             | 96             | 96             | 100            | 110            |
| New Mexico        | 28,461         | 28,231         | 28,838         | 29,169         | 28,660         | 25,000         | 23,850         | 27,175         | 22,362         | 36,437         |
| New York*         | 5,768          | 6,016          | 6,208          | 5,769          | 5,903          | 5,756          | 5,747          | 5,708          | 5,773          | 5,723          |
| North Dakota*     | 104            | 94             | 89             | 89             | 92             | 95             | 82             | 130            | 82             | 94             |
| Ohio*             | 34,660         | 34,501         | 34,380         | 34,238         | 34,136         | 34,058         | 33,917         | 33,945         | 35,303         | 33,828         |
| Oklahoma          | 29,118         | 29,337         | 29,733         | 29,734         | 30,101         | 30,981         | 31,556         | 32,949         | 33,608         | 34,283         |
| Pennsylvania      | 31,150         | 31,025         | 31,792         | 32,692         | 29,000         | 32,649         | 33,465         | 34,864         | 35,701         | 43,563         |
| South Dakota*     | 49             | 49             | 59             | 58             | 59             | 60             | 60             | 65             | 70             | 67             |
| Tennessee         | 570            | 485            | 470            | 510            | 500            | 490            | 450            | 400            | 350            | 300            |
| Texas             | 48,782         | 49,639         | 53,719         | 56,747         | 55,883         | 53,758         | 55,614         | 60,798         | 63,390         | 66,315         |
| Utah              | 1,227          | 1,142          | 1,269          | 1,399          | 1,643          | 1,885          | 2,130          | 3,177          | 3,377          | 3,143          |
| Virginia          | 1,571          | 1,610          | 1,671          | 2,030          | 2,235          | 2,695          | 2,850          | 3,280          | 3,460          | 3,529          |
| West Virginia     | 35,250         | 36,144         | 35,148         | 31,000         | 39,072         | 45,266         | 46,171         | 38,816         | 39,592         | 40,186         |
| Wyoming           | 3,194          | 3,649          | 4,384          | 4,869          | 4,850          | 4,950          | 6,200          | 23,280         | 23,862         | 15,250         |
| Federal Waters    | 3,818          | 4,136          | 4,523          | 4,743          | 4,993          | 3,052          | 3,300          | 3,290          | 3,145          | 3,145          |
| Other             | 33             | 57             | 82             | 88             | 62             | 71             | 81             | 79             | 80             | 98             |
| <b>Total U.S.</b> | <b>287,845</b> | <b>294,165</b> | <b>303,701</b> | <b>303,604</b> | <b>309,165</b> | <b>314,624</b> | <b>324,109</b> | <b>356,797</b> | <b>357,833</b> | <b>375,624</b> |

Source: World Oil and state data\*

Note: Figures quoted as of December 31 each year. Post-1999 numbers reflect lower levels than previous years due to change in MMS (OCS) counting methods, which now exclude shut-ins.

Other: Arizona, Maryland, Missouri, Nevada & Oregon.

# Crude Oil Production

| (thous. bbls.)    | 1994             | 1995             | 1996             | 1997             | 1998             | 1999             | 2000             | 2001             | 2002             | 2003             |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Alabama           | 18,344           | 18,731           | 16,868           | 14,831           | 12,397           | 11,125           | 10,458           | 9,346            | 8,631            | 7,894            |
| Alaska            | 568,948          | 541,654          | 509,999          | 472,949          | 428,851          | 383,198          | 355,198          | 351,409          | 359,382          | 355,562          |
| Arizona           | 65               | 71               | 84               | 82               | 78               | 66               | 57               | 60               | 63               | 47               |
| Arkansas          | 9,569            | 8,910            | 8,814            | 8,429            | 7,998            | 7,154            | 7,153            | 7,584            | 7,344            | 7,226            |
| California        | 285,323          | 278,977          | 282,409          | 285,172          | 283,628          | 273,019          | 271,132          | 260,667          | 257,404          | 248,580          |
| Colorado          | 28,613           | 27,976           | 24,954           | 25,616           | 22,365           | 18,468           | 18,479           | 19,554           | 20,412           | 21,433           |
| Florida           | 6,093            | 5,693            | 6,292            | 6,381            | 5,971            | 4,895            | 4,625            | 4,426            | 3,656            | 3,262            |
| Illinois          | 17,148           | 16,190           | 15,575           | 16,115           | 13,732           | 12,065           | 12,206           | 11,115           | 11,115           | 11,700           |
| Indiana           | 2,492            | 2,778            | 2,523            | 2,430            | 2,210            | 1,964            | 2,098            | 2,023            | 1,962            | 1,865            |
| Kansas            | 46,733           | 43,767           | 41,789           | 39,836           | 35,541           | 29,046           | 34,463           | 32,736           | 32,739           | 33,960           |
| Kentucky          | 4,013            | 3,492            | 3,602            | 2,988            | 2,919            | 2,777            | 3,467            | 2,970            | 2,721            | 2,538            |
| Louisiana         | 135,932          | 122,883          | 132,151          | 134,134          | 134,219          | 120,008          | 105,424          | 104,918          | 93,763           | 90,423           |
| Michigan          | 12,207           | 11,383           | 10,835           | 10,052           | 8,995            | 7,835            | 7,907            | 7,374            | 7,219            | 6,524            |
| Mississippi       | 20,124           | 19,911           | 19,509           | 21,037           | 22,031           | 17,949           | 19,843           | 19,530           | 18,015           | 16,593           |
| Missouri          | 122              | 120              | 115              | 114              | 93               | 92               | 95               | 90               | 95               | 82               |
| Montana           | 16,527           | 16,529           | 15,920           | 15,527           | 16,483           | 14,939           | 15,427           | 16,287           | 16,986           | 19,417           |
| Nebraska          | 4,217            | 3,794            | 3,541            | 3,337            | 3,176            | 2,661            | 2,955            | 2,922            | 2,778            | 2,755            |
| Nevada            | 1,698            | 1,342            | 1,058            | 980              | 799              | 706              | 621              | 571              | 553              | 493              |
| New Mexico        | 65,846           | 64,508           | 64,477           | 69,835           | 72,328           | 64,377           | 67,198           | 68,998           | 67,594           | 66,574           |
| New York*         | 299              | 304              | 309              | 276              | 217              | 191              | 181              | 183              | 179              | 157              |
| North Dakota*     | 27,575           | 29,335           | 32,317           | 35,833           | 35,562           | 32,883           | 32,718           | 31,693           | 30,800           | 28,763           |
| Ohio              | 8,758            | 8,258            | 8,305            | 8,593            | 6,541            | 5,968            | 6,574            | 6,050            | 6,004            | 5,647            |
| Oklahoma          | 90,974           | 87,491           | 85,379           | 83,365           | 77,577           | 70,557           | 69,976           | 68,725           | 66,345           | 64,664           |
| Pennsylvania      | 2,520            | 1,939            | 1,692            | 1,320            | 1,978            | 1,470            | 1,500            | 2,233            | 2,233            | 2,320            |
| South Dakota      | 1,453            | 1,344            | 1,257            | 1,334            | 1,206            | 1,100            | 1,170            | 1,255            | 1,214            | 1,237            |
| Tennessee         | 417              | 382              | 381              | 367              | 287              | 345              | 346              | 386              | 316              | 360              |
| Texas             | 590,734          | 559,647          | 543,342          | 536,584          | 504,661          | 449,233          | 443,396          | 424,793          | 414,536          | 406,855          |
| Utah              | 20,661           | 19,988           | 19,401           | 19,317           | 19,198           | 16,253           | 15,636           | 15,088           | 13,648           | 13,098           |
| Virginia          | 7                | 12               | 13               | 10               | 6                | 8                | 7                | 11               | 25               | 18               |
| West Virginia     | 1,918            | 1,948            | 1,680            | 1,508            | 1,470            | 1,470            | 1,401            | 1,499            | 1,435            | 1,220            |
| Wyoming           | 79,528           | 78,884           | 73,362           | 70,176           | 64,782           | 61,127           | 60,726           | 57,436           | 54,777           | 52,455           |
| Fed. Offshore     | 371,329          | 416,028          | 438,063          | 466,303          | 494,620          | 533,769          | 558,242          | 591,216          | 590,774          | 588,334          |
| <b>TOTAL U.S.</b> | <b>2,440,187</b> | <b>2,394,269</b> | <b>2,366,016</b> | <b>2,354,831</b> | <b>2,281,919</b> | <b>2,146,718</b> | <b>2,130,679</b> | <b>2,123,148</b> | <b>2,094,718</b> | <b>2,062,701</b> |
| <b>DAILY AVG.</b> | <b>6,685</b>     | <b>6,560</b>     | <b>6,465</b>     | <b>6,452</b>     | <b>6,252</b>     | <b>5,881</b>     | <b>5,822</b>     | <b>5,801</b>     | <b>5,739</b>     | <b>5,651</b>     |

Source: Energy Information Administration & state data\*. Does not include NGLS.

# Natural Gas Production

| (MMcf)            | 1994              | 1995              | 1996              | 1997              | 1998              | 1999              | 2000              | 2001              | 2002              | 2003              |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Alabama           | 394,770           | 375,958           | 378,786           | 388,595           | 392,394           | 381,701           | 364,532           | 356,810           | 356,061           | 346,145           |
| Alaska            | 555,402           | 469,550           | 480,828           | 468,311           | 466,648           | 462,967           | 458,995           | 471,440           | 463,301           | 489,757           |
| Arizona           | 752               | 558               | 463               | 452               | 457               | 474               | 368               | 307               | 301               | 443               |
| Arkansas          | 187,673           | 187,242           | 221,822           | 208,514           | 188,372           | 170,006           | 171,642           | 166,804           | 161,871           | 169,599           |
| California        | 255,866           | 224,765           | 219,710           | 212,345           | 240,292           | 304,906           | 319,740           | 335,601           | 360,205           | 337,216           |
| Colorado          | 453,207           | 523,084           | 572,071           | 637,375           | 696,321           | 722,738           | 752,985           | 817,206           | 937,245           | 1,011,285         |
| Florida           | 7,486             | 6,463             | 6,006             | 6,114             | 5,796             | 5,933             | 6,491             | 5,710             | 3,353             | 3,087             |
| Illinois          | 333               | 335               | 298               | 231               | 209               | 195               | 189               | 185               | 180               | 174               |
| Indiana           | 107               | 249               | 360               | 526               | 615               | 855               | 899               | 1,064             | 1,309             | 1,464             |
| Kansas            | 712,730           | 721,436           | 712,796           | 687,215           | 603,586           | 553,419           | 525,729           | 480,145           | 454,901           | 418,893           |
| Kentucky          | 73,081            | 74,754            | 81,435            | 79,547            | 81,869            | 76,770            | 81,545            | 81,723            | 88,259            | 87,608            |
| Louisiana         | 1,655,724         | 1,648,263         | 1,600,572         | 1,468,868         | 1,518,148         | 1,543,684         | 1,479,282         | 1,502,086         | 1,361,751         | 1,350,399         |
| Maryland          | 26                | 22                | 135               | 118               | 63                | 18                | 34                | 32                | 22                | 48                |
| Michigan          | 222,657           | 238,203           | 245,740           | 305,950           | 278,076           | 277,364           | 296,556           | 275,036           | 274,476           | 236,987           |
| Mississippi       | 63,448            | 95,533            | 103,263           | 107,300           | 108,068           | 111,021           | 88,558            | 107,541           | 112,980           | 133,901           |
| Missouri          | 8                 | 16                | 25                | 5                 | 0                 | 0                 | 0                 | 0                 | 0                 | 0                 |
| Montana           | 50,416            | 50,264            | 50,996            | 52,437            | 57,645            | 61,163            | 69,936            | 81,397            | 86,075            | 86,027            |
| Nebraska          | 2,898             | 2,240             | 1,876             | 1,670             | 1,695             | 1,395             | 1,218             | 1,208             | 1,188             | 1,454             |
| Nevada            | 16                | 13                | 11                | 9                 | 9                 | 8                 | 7                 | 7                 | 6                 | 6                 |
| New Mexico        | 1,557,689         | 1,625,837         | 1,554,087         | 1,558,633         | 1,501,098         | 1,511,671         | 1,695,295         | 1,689,125         | 1,632,080         | 1,604,015         |
| New York*         | 20,465            | 18,400            | 18,131            | 16,188            | 16,699            | 16,122            | 17,757            | 27,787            | 36,816            | 35,044            |
| North Dakota*     | 57,805            | 49,468            | 49,674            | 52,401            | 53,185            | 52,862            | 52,426            | 54,732            | 57,048            | 57,886            |
| Ohio              | 132,151           | 126,336           | 119,251           | 116,246           | 115,083           | 109,509           | 105,125           | 100,107           | 103,158           | 93,641            |
| Oklahoma          | 1,934,864         | 1,811,734         | 1,734,887         | 1,703,888         | 1,669,367         | 1,594,002         | 1,612,890         | 1,615,384         | 1,581,606         | 1,558,155         |
| Oregon            | 3,221             | 1,923             | 1,439             | 1,173             | 1,067             | 1,291             | 1,214             | 1,110             | 837               | 731               |
| Pennsylvania      | 120,506           | 111,000           | 135,000           | 80,000            | 130,317           | 174,701           | 200,907           | 157,000           | 157,800           | 159,827           |
| South Dakota      | 1,437             | 1,252             | 1,329             | 1,598             | 1,620             | 1,566             | 1,652             | 1,100             | 1,025             | 1,103             |
| Tennessee         | 1,990             | 1,820             | 1,690             | 1,510             | 1,420             | 1,230             | 1,150             | 2,000             | 2,050             | 1,803             |
| Texas             | 5,045,690         | 5,046,555         | 5,132,207         | 5,167,334         | 5,227,477         | 5,054,485         | 5,285,397         | 5,282,723         | 5,141,075         | 5,243,567         |
| Utah              | 270,858           | 241,290           | 250,767           | 257,139           | 277,340           | 262,614           | 269,285           | 283,913           | 274,739           | 268,058           |
| Virginia          | 50,259            | 49,818            | 54,290            | 58,249            | 57,263            | 72,189            | 71,545            | 71,543            | 76,915            | 81,086            |
| West Virginia     | 183,773           | 186,231           | 169,839           | 172,268           | 180,000           | 176,015           | 264,139           | 191,889           | 190,249           | 187,723           |
| Wyoming           | 696,018           | 673,775           | 666,036           | 738,368           | 903,836           | 971,230           | 1,088,328         | 1,363,879         | 1,453,957         | 1,539,318         |
| Fed. Offshore     | 4,996,197         | 4,942,089         | 5,246,422         | 5,315,514         | 5,185,312         | 5,130,746         | 4,951,592         | 5,113,526         | 4,615,443         | 4,505,443         |
| <b>TOTAL U.S.</b> | <b>19,709,523</b> | <b>19,506,476</b> | <b>19,812,242</b> | <b>19,866,091</b> | <b>19,961,348</b> | <b>19,804,848</b> | <b>20,197,511</b> | <b>20,570,295</b> | <b>19,884,780</b> | <b>19,911,802</b> |

Source: Energy Information Administration & state data\*

Note: Data represent marketed production and bulk of data including total comes from EIA's Natural Gas Annual. Federal Offshore production from Alabama, California, Louisiana, & Texas comprises 'Federal Offshore.' Pre-2002 data may be revised.

# Producing Stripper Oil Wells

|                   | 1993           | 1994           | 1995           | 1996           | 1997           | 1998           | 1999           | 2000           | 2001           | 2002           |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Alabama           | 629            | 601            | 597            | 650            | 622            | 643            | 623            | 627            | 641            | 639            |
| Arizona           | 14             | 14             | 16             | 15             | 19             | 22             | 20             | 20             | 20             | 17             |
| Arkansas          | 7,406          | 7,516          | 7,305          | 3,512          | 3,766          | 3,515          | 3,803          | 3,286          | 3,404          | 3,362          |
| California        | 22,803         | 22,063         | 21,600         | 21,783         | 21,889         | 23,058         | 21,541         | 22,244         | 24,303         | 24,420         |
| Colorado          | 4,465          | 4,156          | 5,149          | 5,679          | 5,725          | 6,229          | 7,739          | 7,618          | 7,003          | 5,384          |
| Illinois          | 32,527         | 31,838         | 31,446         | 30,907         | 30,572         | 19,532         | 19,016         | 18,491         | 17,876         | 17,466         |
| Indiana           | 5,763          | 5,653          | 5,500          | 5,394          | 5,298          | 5,126          | 5,101          | 5,049          | 5,034          | 4,956          |
| Kansas            | 43,982         | 44,011         | 42,485         | 41,913         | 42,657         | 40,159         | 39,172         | 35,359         | 33,886         | 33,317         |
| Kentucky          | 19,470         | 20,019         | 19,994         | 20,007         | 20,007         | 19,883         | 23,140         | 24,585         | 19,615         | 19,462         |
| Louisiana         | 18,719         | 20,732         | 17,983         | 17,781         | 17,924         | 17,900         | 21,269         | 21,091         | 21,024         | 20,891         |
| Michigan          | 3,160          | 3,360          | 3,280          | 3,116          | 3,009          | 2,760          | 1,993          | 2,550          | 2,210          | 3,428          |
| Mississippi       | 869            | 841            | 437            | 430            | 454            | 413            | 426            | 376            | 385            | 442            |
| Missouri          | 684            | 431            | 347            | 355            | 362            | 293            | 299            | 327            | 308            | 364            |
| Montana           | 2,986          | 2,853          | 2,871          | 2,594          | 2,388          | 2,478          | 2,325          | 2,476          | 2,267          | 2,274          |
| Nebraska          | 1,209          | 1,274          | 1,185          | 1,114          | 1,004          | 1,646          | 1,498          | 1,483          | 1,475          | 1,451          |
| New Mexico        | 15,263         | 15,407         | 13,251         | 13,371         | 16,354         | 12,379         | 12,057         | 12,642         | 13,243         | 13,379         |
| New York*         | 3,344          | 3,629          | 3,076          | 3,013          | 3,288          | 3,041          | 3,170          | 2,876          | 2,876          | 2,758          |
| North Dakota*     | 1,305          | 1,294          | 1,297          | 1,345          | 1,365          | 1,338          | 1,286          | 1,357          | 1,340          | 1,394          |
| Ohio              | 29,521         | 29,507         | 29,422         | 29,332         | 29,134         | 28,955         | 28,960         | 28,918         | 28,887         | 28,850         |
| Oklahoma          | 72,018         | 70,616         | 70,679         | 68,961         | 68,408         | 66,444         | 65,730         | 60,120         | 55,295         | 56,673         |
| Pennsylvania      | 19,800         | 19,062         | 19,550         | 19,316         | 27,113         | 26,500         | 26,500         | 15,170         | 15,270         | 15,470         |
| South Dakota*     | 24             | 22             | 18             | 24             | 24             | 17             | 18             | 17             | 20             | 24             |
| Tennessee         | 857            | 704            | 676            | 809            | 363            | 387            | 392            | 301            | 288            | 424            |
| Texas             | 126,434        | 126,730        | 124,592        | 123,609        | 113,751        | 120,090        | 120,074        | 126,028        | 125,823        | 124,551        |
| Utah              | 1,028          | 1,011          | 1,067          | 1,181          | 876            | 838            | 898            | 943            | 1,043          | 1,049          |
| Virginia          | 21             | 23             | 25             | 20             | 17             | 17             | 13             | 15             | 16             | 13             |
| West Virginia     | 15,850         | 11,221         | 11,250         | 11,272         | 11,212         | 8,464          | 8,434          | 8,450          | 8,384          | 8,210          |
| Wyoming           | 3,126          | 7,660          | 7,402          | 6,919          | 5,570          | 7,153          | 7,233          | 9,612          | 11,523         | 11,416         |
| <b>TOTAL U.S.</b> | <b>453,277</b> | <b>452,248</b> | <b>442,500</b> | <b>434,422</b> | <b>433,171</b> | <b>419,280</b> | <b>422,730</b> | <b>412,031</b> | <b>403,459</b> | <b>402,084</b> |

Sources: Interstate Oil and Gas Compact Commission, National Stripper Well Association and state data

Notes: Figures quoted as of January 1 each year.

Data cannot be compared to "Producing Oil Wells" table due to different sources and methodology.

# Stripper Oil Well Production

| (thous. bbls.)    | 1993           | 1994           | 1995           | 1996           | 1997           | 1998           | 1999           | 2000           | 2001           | 2002           |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Alabama           | 1,593          | 1,452          | 1,607          | 1,302          | 1,185          | 1,425          | 1,199          | 1,144          | 1,054          | 1,143          |
| Arizona           | 20             | 23             | 20             | 31             | 39             | 28             | 20             | 21             | 26             | 24             |
| Arkansas          | 4,762          | 3,932          | 3,143          | 3,115          | 3,286          | 3,026          | 1,581          | 3,211          | 3,316          | 3,088          |
| California        | 32,928         | 32,374         | 31,910         | 32,535         | 33,834         | 33,980         | 29,204         | 31,500         | 35,133         | 35,030         |
| Colorado          | 3,398          | 5,212          | 5,875          | 5,373          | 5,262          | 5,450          | 4,133          | 3,913          | 4,646          | 4,644          |
| Illinois          | 16,750         | 16,120         | 14,910         | 13,540         | 14,808         | 12,934         | 11,675         | 10,450         | 10,220         | 10,720         |
| Indiana           | 2,761          | 2,492          | 2,777          | 2,522          | 2,563          | 2,210          | 1,998          | 2,052          | 2,022          | 1,962          |
| Kansas            | 34,942         | 32,668         | 31,796         | 31,281         | 30,675         | 26,225         | 27,655         | 25,063         | 25,178         | 25,002         |
| Kentucky          | 3,796          | 3,400          | 2,907          | 2,813          | 2,413          | 2,430          | 2,287          | 2,372          | 2,077          | 2,050          |
| Louisiana         | 7,240          | 3,827          | 5,655          | 10,583         | 10,597         | 10,500         | 15,821         | 15,286         | 16,127         | 14,999         |
| Michigan          | 3,800          | 2,933          | 3,173          | 3,699          | 3,495          | 3,204          | 1,399          | 3,214          | 1,850          | 3,398          |
| Mississippi       | 1,901          | 578            | 609            | 620            | 593            | 501            | 460            | 576            | 491            | 562            |
| Missouri          | 135            | 124            | 120            | 115            | 114            | 93             | 92             | 106            | 91             | 95             |
| Montana           | 2,093          | 2,199          | 2,021          | 1,745          | 1,957          | 2,063          | 1,834          | 2,036          | 1,830          | 1,843          |
| Nebraska          | 2,215          | 2,148          | 1,899          | 1,948          | 2,366          | 2,113          | 1,828          | 1,831          | 1,765          | 1,718          |
| Nevada            | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| New Mexico        | 13,853         | 12,353         | 13,275         | 41,366         | 42,725         | 12,034         | 12,005         | 12,823         | 13,176         | 13,387         |
| New York          | 325            | 291            | 294            | 296            | 276            | 217            | 191            | 183            | 184            | 175            |
| North Dakota*     | 2,155          | 1,977          | 2,160          | 2,121          | 2,197          | 1,980          | 1,842          | 2,113          | 2,111          | 2,288          |
| Ohio              | 6,017          | 5,888          | 5,999          | 6,033          | 6,713          | 5,078          | 4,269          | 5,378          | 4,905          | 4,398          |
| Oklahoma          | 65,767         | 64,942         | 60,265         | 59,453         | 55,621         | 49,665         | 50,040         | 50,068         | 47,071         | 56,300         |
| Pennsylvania      | 2,148          | 2,076          | 2,115          | 2,679          | 1,473          | 1,330          | 1,440          | 2,224          | 2,233          | 2,324          |
| South Dakota*     | 43             | 31             | 50             | 49             | 29             | 14             | 17             | 16             | 35             | 51             |
| Tennessee         | 319            | 310            | 280            | 164            | 143            | 238            | 246            | 189            | 241            | 246            |
| Texas             | 133,195        | 129,437        | 128,941        | 116,749        | 118,709        | 128,822        | 131,129        | 135,151        | 129,017        | 127,253        |
| Utah              | 2,470          | 2,572          | 1,344          | 1,258          | 1,167          | 1,113          | 1,303          | 1,418          | 1,449          | 1,446          |
| Virginia          | 6              | 7              | 6              | 6              | 4              | 4              | 4              | 5              | 6              | 3              |
| West Virginia     | 2,048          | 2,009          | 1,954          | 1,850          | 1,700          | 1,450          | 1,390          | 1,300          | 1,250          | 1,248          |
| Wyoming           | 9,281          | 8,556          | 8,010          | 9,181          | 8,972          | 8,046          | 8,311          | 12,566         | 8,597          | 8,430          |
| <b>TOTAL U.S.</b> | <b>355,961</b> | <b>339,931</b> | <b>333,115</b> | <b>352,427</b> | <b>352,916</b> | <b>316,173</b> | <b>313,373</b> | <b>326,210</b> | <b>316,099</b> | <b>323,826</b> |

Sources: Interstate Oil and Gas Compact Commission, National Stripper Well Association, and state data

Notes: Totals may not add due to rounding.

# Stripper Natural Gas Production

| (Mmcf)            | 1993             | 1994           | 1995           | 1996           | 1997             | 1998             | 1999             | 2000             | 2001             | 2002             |
|-------------------|------------------|----------------|----------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Alabama           | 1,580            | 1,543          | 1,586          | 1,721          | 1,825            | 1,801            | 1,860            | 14,390           | 16,427           | 18,139           |
| Arizona           | 34               | 11             | 5              | 12             | 4                | 4                | 13               | 40               | 12               | 3                |
| Arkansas          | 9,261            | 10,528         | 11,821         | 11,711         | 12,858           | 13,018           | 13,147           | 14,927           | 14,385           | 15,574           |
| California        | 3,048            | 3,312          | 3,301          | 3,523          | 3,414            | 3,253            | 3,158            | 2,833            | 3,662            | 3,507            |
| Colorado          | 87,322           | 20,652         | 21,617         | 31,205         | 35,094           | 55,797           | 55,584           | 57,974           | 117,017          | 60,945           |
| Illinois          | 90               | 90             | 90             | 90             | 88               | 88               | 88               | 88               | 84               | 185              |
| Indiana           | 192              | 107            | 249            | 360            | 526              | 615              | 855              | 829              | 1,064            | 1,309            |
| Kansas            | 18,646           | 45,213         | 33,967         | 44,386         | 41,002           | 40,394           | 46,090           | 94,149           | 74,416           | 124,878          |
| Kentucky          | 77,296           | 64,955         | 66,441         | 72,379         | 70,698           | 72,765           | 68,233           | 72,477           | 72,635           | 78,445           |
| Louisiana         | 22,564           | 22,232         | 20,542         | 25,847         | 23,500           | 23,300           | 28,650           | 26,899           | 37,344           | 40,836           |
| Maryland          | 28               | 26             | 22             | 22             | 19               | 67               | 75               | 34               | 49               | 13               |
| Michigan          | 14,803           | 17,151         | 22,453         | 22,727         | 26,338           | 29,468           | 36,803           | 41,587           | 44,411           | 55,623           |
| Mississippi       | 1,181            | 1,328          | 1,189          | 1,170          | 1,370            | 1,389            | 1,511            | 1,652            | 2,040            | 2,719            |
| Missouri          | 14               | 8              | 16             | 17             | 5                | 0                | 0                | 0                | 0                | 0                |
| Montana           | 20,425           | 20,989         | 20,561         | 19,694         | 20,647           | 23,112           | 23,195           | 23,044           | 24,195           | 25,286           |
| Nebraska          | 162              | 132            | 616            | 132            | 1,133            | 922              | 846              | 746              | 779              | 751              |
| New Mexico        | 121,987          | 86,084         | 72,024         | 73,061         | 75,938           | 73,746           | 74,183           | 77,672           | 78,022           | 81,059           |
| New York          | 15,807           | 14,839         | 13,970         | 13,253         | 12,998           | 12,501           | 11,278           | 11,092           | 11,050           | 10,637           |
| North Dakota*     | 408              | 409            | 381            | 395            | 362              | 343              | 473              | 347              | 342              | 762              |
| Ohio              | 110,953          | 94,019         | 90,772         | 86,539         | 84,182           | 79,333           | 67,612           | 74,484           | 72,905           | 75,993           |
| Oklahoma          | 88,885           | 91,190         | 98,786         | 100,344        | 108,287          | 114,668          | 114,749          | 120,014          | 126,632          | 153,207          |
| Pennsylvania      | 37,149           | 42,313         | 39,874         | 74,105         | 75,000           | 115,860          | 115,390          | 125,191          | 130,853          | 131,800          |
| South Dakota*     | 215              | 430            | 383            | 387            | 414              | 488              | 505              | 461              | 475              | 416              |
| Tennessee         | 1,417            | 1,848          | 1,664          | 1,571          | 1,212            | 1,316            | 1,184            | 1,066            | 1,059            | 1,586            |
| Texas             | 185,644          | 189,618        | 195,953        | 202,851        | 195,063          | 221,514          | 226,318          | 238,351          | 249,667          | 258,984          |
| Utah              | 1,930            | 1,860          | 1,837          | 3,235          | 3,965            | 4,374            | 5,848            | 6,017            | 7,445            | 9,360            |
| Virginia          | 1,549            | 1,240          | 1,957          | 1,346          | 2,399            | 2,502            | 2,079            | 2,054            | 2,238            | 1,808            |
| West Virginia     | 198,564          | 198,595        | 199,394        | 190,145        | 198,000          | 198,500          | 218,350          | 220,000          | 221,662          | 208,775          |
| Wyoming           | 5,084            | 9,697          | 4,090          | 4,449          | 5,021            | 13,547           | 20,904           | 30,310           | 42,644           | 56,003           |
| <b>TOTAL U.S.</b> | <b>1,026,239</b> | <b>940,421</b> | <b>925,563</b> | <b>986,676</b> | <b>1,001,363</b> | <b>1,104,684</b> | <b>1,138,980</b> | <b>1,258,727</b> | <b>1,353,516</b> | <b>1,418,606</b> |

Sources: Interstate Oil and Gas Compact Commission, National Stripper Well Association, and state data.

Notes: Totals may not add due to rounding.

# Cost of Drilling and Equipping

## Wells '02

| State                 | No. of Wells Drilled | Footage Drilled    | Depth per Well | Total Cost            | Cost per Well     | Cost per Foot   |
|-----------------------|----------------------|--------------------|----------------|-----------------------|-------------------|-----------------|
|                       |                      | (ft.)              |                |                       | (%)               |                 |
| Alabama               | 263                  | 669,289            | 2,545          | 224,227,000           | 950,114           | 335.02          |
| Alaska                | 79                   | 804,129            | 10,179         | 650,644,000           | 8,236,000         | 809.13          |
| Arizona               | -                    | -                  | -              | -                     | -                 | -               |
| Arkansas              | 155                  | 860,971            | 5,555          | 71,371,000            | 460,458           | 82.90           |
| California            | 1,694                | 4,452,834          | 2,629          | 665,263,000           | 392,717           | 149.40          |
| Colorado              | 1,205                | 6,831,984          | 5,670          | 812,171,000           | 674,001           | 118.88          |
| Florida               | -                    | -                  | -              | -                     | -                 | -               |
| Illinois              | 181                  | 457,639            | 2,528          | 24,943,000            | 137,807           | 54.50           |
| Indiana               | 61                   | 103,565            | 1,698          | 6,770,000             | 110,984           | 65.37           |
| Kansas                | 1,098                | 3,555,032          | 3,238          | 177,530,000           | 161,685           | 49.94           |
| Kentucky              | 796                  | 2,302,681          | 2,893          | 150,415,000           | 188,964           | 65.32           |
| Louisiana             | 1,002                | 9,591,267          | 9,572          | 4,752,821,000         | 4,743,334         | 495.54          |
| Michigan              | 329                  | 652,705            | 1,984          | 74,638,000            | 226,863           | 114.35          |
| Mississippi           | 186                  | 1,333,141          | 7,167          | 144,761,000           | 778,285           | 108.59          |
| Montana               | 421                  | 1,432,258          | 3,402          | 200,479,000           | 476,197           | 139.97          |
| Nebraska              | 29                   | 135,987            | 4,689          | 11,152,000            | 384,552           | 82.01           |
| New Mexico            | 1,167                | 7,352,607          | 6,300          | 862,810,000           | 739,340           | 117.35          |
| North Dakota          | 106                  | 1,224,082          | 11,548         | 238,979,000           | 2,254,519         | 195.23          |
| Oklahoma              | 2,293                | 13,725,013         | 5,986          | 1,442,030,000         | 628,884           | 105.07          |
| Texas                 | 6,537                | 51,576,417         | 7,890          | 8,182,270,000         | 1,251,686         | 158.64          |
| Utah                  | 415                  | 2,660,099          | 6,410          | 326,527,000           | 786,812           | 122.75          |
| Wyoming               | 3,112                | 8,238,603          | 2,647          | 1,391,505,000         | 447,142           | 168.90          |
| Appalachian           | 3,112                | 11,964,209         | 3,845          | 614,257,000           | 197,383           | 51.34           |
| Federal Offshore      | 343                  | 4,252,990          | 12,399         | 4,394,940,000         | 12,813,236        | 1,033.38        |
| Other                 | 94                   | 227,555            | 2,421          | 21,205,000            | 225,585           | 93.19           |
| <b>Total Offshore</b> | <b>434</b>           | <b>5,302,859</b>   | <b>12,219</b>  | <b>5,467,959,000</b>  | <b>12,598,984</b> | <b>1,031.13</b> |
| <b>Total Onshore</b>  | <b>23,955</b>        | <b>126,103,944</b> | <b>5,264</b>   | <b>17,029,142,000</b> | <b>710,881</b>    | <b>135.04</b>   |
| <b>Total US</b>       | <b>24,389</b>        | <b>131,406,803</b> | <b>5,388</b>   | <b>22,497,101,000</b> | <b>922,428</b>    | <b>171.20</b>   |
| <b>Exploratory</b>    | <b>1,908</b>         | <b>13,478,095</b>  | <b>7,064</b>   | <b>4,170,609,000</b>  | <b>2,185,854</b>  | <b>309.44</b>   |
| <b>Developmental</b>  | <b>22,481</b>        | <b>117,928,708</b> | <b>5,246</b>   | <b>18,326,492,000</b> | <b>815,199</b>    | <b>155.40</b>   |

Sources: Joint Association Survey on Drilling Costs--American Petroleum Institute  
 Notes: Appalachian includes New York, Ohio, Pennsylvania and West Virginia.

# Crude Oil Revenues

| (thous. \$)       | 1994              | 1995              | 1996              | 1997              | 1998              | 1999              | 2000              | 2001              | 2002              | 2003              |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Alabama           | 274,793           | 306,252           | 341,408           | 275,559           | 149,756           | 185,899           | 288,955           | 216,640           | 201,793           | 228,689           |
| Alaska            | 5,615,517         | 6,087,731         | 7,685,685         | 6,559,802         | 3,675,253         | 4,829,100         | 8,438,616         | 6,447,477         | 7,020,292         | 8,507,816         |
| Arizona*          | 900               | 1,157             | 1,680             | 1,494             | 912               | 1,060             | 1,523             | 1,309             | 1,678             | 1,252             |
| Arkansas          | 131,287           | 132,224           | 164,557           | 148,181           | 88,778            | 113,677           | 192,988           | 165,483           | 157,896           | 191,995           |
| California        | 3,992,225         | 3,905,678         | 4,721,878         | 4,500,014         | 2,671,776         | 3,800,424         | 6,702,383         | 5,213,340         | 5,593,657         | 6,535,168         |
| Colorado          | 441,212           | 466,360           | 510,808           | 487,472           | 280,457           | 320,789           | 533,119           | 485,330           | 408,059           | 658,207           |
| Florida           | 81,951            | 82,549            | 104,133           | 125,322           | 61,083            | 85,663            | 134,310           | NA                | NA                | NA                |
| Illinois          | 269,910           | 274,421           | 324,895           | 305,701           | 175,495           | 209,569           | 343,477           | 264,092           | 287,296           | 340,470           |
| Indiana*          | 39,025            | 46,893            | 52,150            | 45,513            | 27,603            | 33,997            | 58,555            | 47,460            | 44,734            | 52,929            |
| Kansas            | 686,508           | 708,588           | 855,421           | 742,144           | 433,245           | 496,106           | 970,478           | 771,260           | 772,543           | 973,973           |
| Kentucky          | 61,519            | 57,374            | 72,904            | 53,694            | 34,065            | 46,320            | 91,771            | 66,914            | 57,111            | 69,059            |
| Louisiana         | 6,285,900         | 2,096,384         | 2,759,313         | 2,578,055         | 1,677,335         | 2,110,941         | 3,041,693         | 2,555,907         | 2,306,638         | 2,740,721         |
| Michigan          | 188,110           | 189,299           | 220,167           | 188,475           | 110,459           | 130,296           | 222,345           | 167,316           | 170,944           | 190,370           |
| Mississippi       | 270,064           | 293,886           | 369,305           | 356,366           | 227,580           | 276,774           | 520,482           | 412,669           | 398,312           | 455,644           |
| Missouri*         | 1,708             | 1,920             | 2,076             | 2,123             | 1,068             | 1,436             | 2,695             | 1,833             | 2,045             | 2,169             |
| Montana           | 221,627           | 246,778           | 300,729           | 263,959           | 186,093           | 247,091           | 429,179           | 377,207           | 383,620           | 556,491           |
| Nebraska          | 57,351            | 57,593            | 69,297            | 60,399            | 36,524            | 45,796            | 82,651            | 69,164            | 65,640            | 78,876            |
| Nevada*           | 19,103            | 16,440            | 15,881            | 14,700            | 9,005             | 9,792             | 14,084            | 9,781             | 9,904             | 12,098            |
| New Mexico        | 1,006,785         | 1,079,864         | 1,340,477         | 1,327,563         | 893,974           | 1,124,022         | 1,935,302         | 1,636,633         | 1,615,688         | 1,965,264         |
| New York*         | 4,766             | 5,089             | 6,474             | 5,103             | 2,600             | 3,089             | 5,160             | 4,200             | 4,500             | 4,576             |
| North Dakota*     | 386,877           | 457,039           | 628,889           | 631,735           | 404,696           | 549,146           | 922,320           | 746,370           | 729,958           | 841,893           |
| Ohio              | 139,865           | 137,661           | 165,768           | 151,924           | 79,800            | 97,935            | 180,719           | 136,428           | 135,750           | 159,091           |
| Oklahoma          | 1,391,902         | 1,459,350         | 1,758,807         | 1,588,103         | 987,555           | 1,253,798         | 2,034,902         | 1,696,133         | 1,632,063         | 1,921,814         |
| Pennsylvania      | 40,622            | 32,827            | 35,515            | 24,802            | 27,039            | 27,180            | 43,200            | 55,423            | 55,512            | 68,672            |
| South Dakota      | 23,676            | 20,872            | 24,587            | 22,011            | 14,822            | 18,546            | 32,971            | 29,982            | 29,087            | 35,799            |
| Tennessee*        | 6,268             | 6,303             | 7,449             | 6,334             | 3,226             | 5,496             | 9,093             | 8,477             | 6,020             | 9,562             |
| Texas             | 9,142,981         | 9,167,018         | 11,035,276        | 10,001,925        | 6,197,237         | 7,771,731         | 12,680,682        | 9,944,404         | 9,792,471         | 11,851,279        |
| Utah              | 337,807           | 353,987           | 409,361           | 358,523           | 240,551           | 287,516           | 446,095           | 363,470           | 326,446           | 378,270           |
| Virginia*         | 101               | 201               | 255               | 164               | 70                | 133               | NA                | NA                | NA                | 472               |
| West Virginia     | 29,921            | 32,200            | 32,911            | 26,480            | 17,567            | 24,196            | 37,995            | 33,503            | 31,164            | 34,233            |
| Wyoming           | 1,084,762         | 1,222,702         | 1,443,031         | 1,221,764         | 693,167           | 1,006,762         | 1,632,922         | 1,237,746         | 1,201,585         | 1,396,877         |
| <b>TOTAL U.S.</b> | <b>32,235,043</b> | <b>28,946,640</b> | <b>35,461,087</b> | <b>32,075,404</b> | <b>19,408,791</b> | <b>25,114,280</b> | <b>42,030,665</b> | <b>33,165,951</b> | <b>33,443,642</b> | <b>57,020,264</b> |

Source: Energy Information Administration, IPAA and state data.

Total does not include Federal OCS.

# Natural Gas Revenues

| (thous. \$)       | 1994              | 1995              | 1996              | 1997              | 1998              | 1999              | 2000              | 2001              | 2002              | 2003              |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Alabama           | 953,259           | 684,244           | 992,419           | 1,031,631         | 1,016,262         | 881,729           | 1,450,233         | 1,498,602         | 1,239,092         | 2,052,640         |
| Alaska            | 666,294           | 770,062           | 774,133           | 745,141           | 657,181           | 587,968           | 807,831           | 938,166           | 986,831           | 1,180,314         |
| Arizona           | 976               | 670               | 764               | 1,078             | 864               | 980               | 1,288             | 1,265             | 783               | 1,918             |
| Arkansas          | 454,469           | 565,471           | 847,360           | 557,710           | 402,768           | 350,212           | 897,688           | 832,352           | 717,089           | 876,827           |
| California        | 766,811           | 763,574           | 432,459           | 570,552           | 622,195           | 798,384           | 1,590,903         | 2,325,715         | 923,622           | 1,699,569         |
| Colorado          | 694,556           | 496,930           | 783,737           | 1,364,032         | 1,342,708         | 1,241,663         | 2,763,455         | 2,819,760         | 2,028,066         | 4,591,234         |
| Florida           | 18,886            | 8,014             | 12,673            | 6,452             | 8,230             | 14,833            | 11,392            | NA                | NA                | NA                |
| Illinois          | 783               | 637               | 849               | 888               | 589               | 534               | 388               | NA                | NA                | NA                |
| Indiana*          | 381               | 473               | 828               | 572               | 856               | 1,872             | 3,155             | 3,490             | 4,071             | 7,920             |
| Kansas            | 1,133,156         | 981,153           | 1,368,568         | 1,479,466         | 1,124,099         | 996,154           | 1,687,590         | 1,757,331         | 1,187,292         | 1,813,807         |
| Kentucky          | 182,474           | 122,597           | 207,659           | 217,808           | 191,599           | 158,914           | 257,682           | 390,636           | 265,660           | 397,740           |
| Louisiana         | 9,951,470         | 2,659,238         | 3,793,541         | 3,997,005         | 3,352,820         | 3,619,578         | 5,354,452         | 5,996,272         | 4,357,603         | 7,616,250         |
| Maryland          | 53                | 31                | 340               | 90                | 218               | 45                | 128               | 133               | 91                | 216               |
| Michigan          | 599,755           | 397,799           | 543,085           | 680,194           | 641,904           | 490,934           | 723,597           | 954,375           | 592,868           | 950,318           |
| Mississippi       | 150,009           | 118,461           | 171,417           | 187,194           | 181,556           | 174,303           | 292,241           | 422,636           | 345,719           | 686,912           |
| Missouri          | 21                | 27                | 39                | 32                | 28                | 0                 | 0                 | 0                 | 0                 | 0                 |
| Montana           | 82,497            | 68,359            | 71,904            | 85,412            | 80,937            | 102,754           | 198,618           | 253,959           | 205,719           | 320,881           |
| Nebraska          | 3,994             | 2,666             | 2,683             | 3,126             | 2,002             | 1,897             | 2,753             | 2,609             | 2,800             | 4,609             |
| New Mexico        | 2,496,049         | 2,048,555         | 2,595,325         | 3,308,522         | 2,822,217         | 3,189,626         | 5,787,837         | 6,570,696         | 4,373,974         | 7,314,308         |
| New York*         | 48,365            | 42,320            | 50,767            | 49,408            | 43,700            | 34,811            | 66,380            | 135,500           | 111,700           | 208,872           |
| North Dakota      | 94,725            | 41,058            | 105,806           | 53,615            | 113,593           | 122,640           | 206,558           | 193,204           | 170,003           | 196,596           |
| Ohio*             | 334,360           | 294,363           | 313,630           | 349,350           | 250,622           | 263,917           | 426,808           | 454,486           | 466,274           | 552,387           |
| Oklahoma          | 3,412,118         | 2,608,897         | 2,595,325         | 3,923,061         | 3,516,765         | 3,220,236         | 5,854,791         | 6,509,998         | 4,560,740         | 7,744,030         |
| Oregon            | 6,008             | 1,788             | 3,252             | 2,170             | 2,177             | 2,659             | 3,266             | 4,063             | 3,323             | NA                |
| Pennsylvania      | 304,100           | 315,240           | 415,125           | 436,487           | 220,915           | 539,826           | 465,074           | 535,370           | 538,098           | NA                |
| South Dakota      | 1,637             | 1,991             | 2,631             | 3,214             | 1,164             | 3,336             | 5,881             | 3,762             | 4,459             | 5,493             |
| Tennessee         | 3,467             | 2,803             | 4,293             | 5,556             | 5,565             | 2,804             | 4,704             | 7,200             | 6,991             | 9,412             |
| Texas             | 11,670,340        | 8,124,952         | 11,752,756        | 11,373,730        | 10,376,470        | 11,452,056        | 19,934,846        | 22,191,013        | 16,245,797        | 27,161,677        |
| Utah              | 468,301           | 277,484           | 348,566           | 478,279           | 496,439           | 504,219           | 883,255           | 999,374           | 546,731           | 1,101,718         |
| Virginia*         | 102,325           | 85,687            | 151,469           | 138,360           | 117,692           | 179,751           | 284,034           | 306,919           | 243,051           | 377,050           |
| West Virginia     | 524,613           | 413,433           | 542,322           | 491,810           | 396,264           | 526,285           | 855,810           | 1,033,840         | 654,457           | 814,718           |
| Wyoming           | 1,125,576         | 1,199,320         | 1,711,713         | 1,411,067         | 1,327,403         | 1,621,570         | 3,635,016         | 4,759,938         | 3,925,684         | 6,357,383         |
| <b>TOTAL U.S.</b> | <b>36,535,940</b> | <b>30,285,862</b> | <b>42,951,353</b> | <b>46,131,323</b> | <b>39,085,318</b> | <b>43,324,690</b> | <b>74,338,958</b> | <b>82,202,805</b> | <b>58,596,868</b> | <b>97,249,837</b> |

Source: Energy Information Administration, state data\*

Total from EIA - imputed wellhead value of marketed production.

## Abandonments

|                   | 1993          | 1994          | 1995          | 1996          | 1997          | 1998          | 1999          | 2000          | 2001          | 2002          |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Alabama           | 8             | 11            | 2             | 10            | 8             | 2             | 6             | 6             | 3             | 3             |
| Arizona           | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| Arkansas          | 163           | 254           | 151           | 186           | 138           | 97            | 77            | 116           | 43            | 42            |
| California        | 1,727         | 1,675         | 1,734         | 1,849         | 1,919         | 1,392         | 1,046         | 1,615         | 1,469         | 2,452         |
| Colorado          | 115           | 144           | 190           | 334           | 321           | 153           | 120           | 124           | 168           | 119           |
| Illinois          | 994           | 810           | 542           | 514           | 518           | 802           | 590           | 647           | 689           | 710           |
| Indiana           | 198           | 181           | 169           | 135           | 129           | 133           | 58            | 72            | 93            | 125           |
| Kansas            | 1,262         | 1,281         | 1,754         | 1,716         | 1,765         | 1,480         | 2,025         | 614           | 1,614         | 1,722         |
| Kentucky          | 255           | 289           | 206           | 231           | 166           | 233           | 179           | 232           | 202           | 237           |
| Louisiana         | 1,043         | 718           | 812           | 614           | 785           | 750           | 620           | 605           | 760           | 731           |
| Michigan          | 215           | 126           | 103           | 121           | 153           | 146           | 139           | 139           | 141           | 155           |
| Mississippi       | 102           | 110           | 88            | 86            | 74            | 58            | 83            | 91            | 62            | 109           |
| Missouri          | 0             | 14            | 137           | 235           | 251           | 2             | 4             | 12            | 1             | 4             |
| Montana           | 126           | 80            | 97            | 74            | 45            | 124           | 136           | 178           | 135           | 65            |
| Nebraska          | 65            | 50            | 36            | 112           | 66            | 90            | 66            | 67            | 83            | 100           |
| New Mexico        | 963           | 976           | 1,082         | 619           | 397           | 206           | 105           | 121           | 203           | 217           |
| New York          | 90            | 45            | 68            | 59            | 79            | 58            | 57            | 36            | 36            | 65            |
| North Dakota      | 54            | 53            | 45            | 33            | 51            | 37            | 26            | 35            | 48            | 38            |
| Ohio              | 282           | 288           | 379           | 297           | 335           | 243           | 183           | 211           | 216           | 183           |
| Oklahoma          | 1,356         | 1,489         | 1,164         | 1,740         | 1,871         | 1,442         | 841           | 922           | 710           | 774           |
| Pennsylvania      | 865           | 887           | 881           | 712           | 640           | 968           | 590           | 300           | 200           | 210           |
| South Dakota*     | 2             | 2             | 1             | 0             | 1             | 7             | 2             | 0             | 0             | 2             |
| Tennessee         | 70            | 67            | 71            | 97            | 81            | 77            | 70            | 76            | 45            | 38            |
| Texas             | 6,642         | 8,268         | 7,305         | 7,063         | 5,246         | 5,110         | 4,078         | 4,255         | 5,126         | 5,228         |
| Utah              | 17            | 35            | 47            | 74            | 20            | 30            | 36            | 16            | 30            | 16            |
| Virginia          | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0             |
| West Virginia     | 100           | 40            | 45            | 100           | 100           | 84            | 80            | 78            | 50            | 46            |
| Wyoming           | 200           | 3             | 11            | 12            | 14            | 188           | 10            | 120           | 107           | 228           |
| <b>U.S. Total</b> | <b>16,914</b> | <b>17,896</b> | <b>17,120</b> | <b>17,023</b> | <b>15,173</b> | <b>13,912</b> | <b>11,227</b> | <b>10,688</b> | <b>12,234</b> | <b>13,619</b> |

Source: Interstate Oil and Gas Compact Commission, National Stripper Well Association and state data

Note: Figures quoted as of January 1 each successive year.

## Drilling Summary 2002

|                              | Oil Wells |        | Gas Wells |        | Dry Holes   |        | Total Wells |        |
|------------------------------|-----------|--------|-----------|--------|-------------|--------|-------------|--------|
|                              | 2002      | %      | 2002      | %      | 2002        | %      | 2002        | %      |
| Number of Wells Drilled      | 6,401     | (25.6) | 15,744    | (24.1) | 3,358       | (19.0) | 25,503      | (23.8) |
| Footage Drilled (thous. ft.) | 29,047    | (28.8) | 88,840    | (17.8) | 19,744      | (20.1) | 137,661     | (20.7) |
| Total Cost (mill. \$)        | \$5,651   | (9.9)  | \$15,616  | (16.0) | \$5,619     | (16.4) | \$26,886    | (14.9) |
| Average Depth (ft.)          | 4,538     | (4.3)  | 5,643     | 8.3    | 5,889       | (1.3)  | 5,398       | 4.1    |
| Average Cost per Well (\$)   | \$882,837 | 21.1   | \$991,860 | 10.6   | \$1,673,388 | 3.3    | \$1,054,234 | 25.0   |
| Average Cost per Foot (\$)   | \$194.55  | 26.6   | \$175.78  | 2.2    | \$284.17    | 4.6    | \$195.31    | 7.4    |

Source: API Joint Association Survey

Notes: Data include all costs incurred through Christmas tree. Total may not add due to rounding. Percent change versus 2001 JAS data.

# Severance and Production Taxes

| (thous. \$)       | 1994             | 1995             | 1996             | 1997             | 1998             | 1999             | 2000             | 2001             | 2002             | 2003             |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Alabama           | 58,838           | 50,003           | 64,102           | 67,526           | 55,078           | 37,899           | 68,341           | 107,024          | 53,235           | 92,695           |
| Alaska            | 708,998          | 750,828          | 914,890          | 788,409          | 395,500          | 507,000          | 759,000          | 558,772          | 519,368          | 1,093,356        |
| Arkansas          | 5,984            | 5,872            | 6,027            | 6,872            | 4,371            | 4,616            | 9,476            | 9,546            | 6,608            | 8,355            |
| Arizona           | 5,141            | 2,402            | 5,286            | 5,952            | 6,398            | 6,060            | 7,026            | 6,510            | 8,377            | 8,377            |
| California*       | 302,700          | 325,000          | 147,100          | 174,044          | 157,652          | 194,606          | 215,696          | 239,921          | 189,306          | 214,473          |
| Colorado          | 6,480            | 1,632            | 7,555            | 18,688           | 19,756           | 23,327           | 24,641           | 54,384           | 48,914           | 23,613           |
| Florida           | 6,515            | 7,657            | 6,908            | 10,441           | 7,318            | 4,157            | 6,046            | 8,258            | 5,197            | 5,469            |
| Indiana           | 597              | 674              | 616              | 599              | 550              | 502              | 653              | 572              | 567              | 590              |
| Kansas            | 93,572           | 183,864          | 68,535           | 78,531           | 51,686           | 120,333          | 56,900           | 109,232          | 59,895           | 84,212           |
| Kentucky          | 11,291           | 8,757            | 10,673           | 12,653           | 11,212           | 8,452            | 11,414           | 20,678           | 14,610           | 17,800           |
| Louisiana         | 350,369          | 364,390          | 344,302          | 380,699          | 336,293          | 240,055          | 354,314          | 478,805          | 454,429          | 480,749          |
| Maryland          | 2                | 1                | 1                | 2                | 1                | 1                | 1                | 2                | 1                | 1                |
| Michigan          | 40,345           | 36,822           | 36,414           | 40,961           | 30,982           | 30,570           | 40,012           | 61,279           | 35,967           | 54,651           |
| Mississippi       | 29,711           | 23,557           | 28,225           | 28,343           | 25,346           | 14,518           | 23,751           | 11,817           | 28,201           | 43,413           |
| Montana           | 45,760           | 38,652           | 42,507           | 42,482           | 35,065           | 28,997           | 43,770           | 92,818           | 50,304           | 75,454           |
| Nebraska          | 1,193            | 1,736            | 2,149            | 1,915            | 1,334            | 1,017            | 2,108            | 1,868            | 1,455            | 1,845            |
| Nevada            | 85               | 525              | 486              | 283              | 74               | 50               | 62               | 62               | 56               | 248              |
| New Mexico        | 238,839          | 258,100          | 271,600          | 372,600          | 375,800          | 227,200          | 345,300          | 355,370          | 479,109          | 571,862          |
| North Dakota      | 38,300           | 45,106           | 52,000           | 53,500           | 39,200           | 35,402           | 71,275           | 66,800           | 62,300           | 66,846           |
| Ohio              | 4,060            | 3,920            | 3,738            | 3,655            | 3,383            | 3,327            | 3,090            | 2,884            | 2,799            | 2,900            |
| Oklahoma          | 372,464          | 309,553          | 324,377          | 413,576          | 360,285          | 253,039          | 410,412          | 745,236          | 417,103          | 600,980          |
| Oregon            | 384              | 154              | 204              | 156              | 93               | 98               | 146              | 119              | 145              | 89               |
| South Dakota      | 943              | 1,041            | 945              | 1,178            | 1,018            | 730              | 1,051            | 1,566            | 1,239            | 1,522            |
| Tennessee         | 300              | 247              | 243              | 282              | 213              | 363              | 532              | 380              | 498              | 592              |
| Texas**           | 916,500          | 886,620          | 897,671          | 1,091,284        | 926,561          | 659,396          | 1,153,086        | 1,956,108        | 1,049,054        | 1,492,743        |
| Utah              | 14,049           | 13,766           | 13,145           | 17,217           | 13,988           | 11,109           | 17,313           | 42,106           | 20,603           | 28,689           |
| West Virginia     | 17,101           | 19,086           | 19,199           | 17,431           | 16,118           | 19,161           | 18,048           | 34,549           | 28,382           | 30,475           |
| Wyoming           | 112,000          | 91,972           | 123,541          | 152,448          | 73,754           | 125,178          | 567,445          | 581,532          | 327,497          | 370,381          |
| <b>TOTAL U.S.</b> | <b>3,382,521</b> | <b>3,431,937</b> | <b>3,392,439</b> | <b>3,781,727</b> | <b>2,949,029</b> | <b>2,557,163</b> | <b>4,210,909</b> | <b>5,548,198</b> | <b>3,863,352</b> | <b>5,372,380</b> |

Source: Various state and industry contacts.

Notes: Figures include all state and local tax revenues. States vary on the use of fiscal (Arizona) or calendar year data. West Virginia data switched to FY in 2001.

\*California data recalibrated to methodology that includes property taxes associated with an ad valorem tax base and a nominal assessment based on projected production expenditures.

\*\*Texas includes oilfield clean up tax beginning in 1991.

# Crude Oil Wellhead Prices

| (\$/Bbl.)         | 1994         | 1995         | 1996         | 1997         | 1998         | 1999         | 2000         | 2001         | 2002         | 2003         |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Alabama           | 15.00        | 16.35        | 20.24        | 18.58        | 12.08        | 16.71        | 27.63        | 23.18        | 23.38        | 28.97        |
| Alaska            | 9.77         | 11.12        | 15.32        | 14.84        | 8.47         | 12.60        | 23.76        | 18.35        | 19.54        | 23.93        |
| Arizona*          | 13.85        | 16.29        | 20.00        | 18.23        | 11.69        | 16.06        | 26.72        | 21.82        | 26.63        | 26.63        |
| Arkansas          | 13.74        | 14.84        | 18.67        | 17.58        | 11.10        | 15.89        | 26.98        | 21.82        | 21.50        | 26.57        |
| California        | 11.62        | 14.00        | 16.72        | 15.78        | 9.55         | 13.92        | 24.72        | 20.00        | 21.68        | 26.29        |
| Colorado          | 15.44        | 16.67        | 20.47        | 19.03        | 12.56        | 17.37        | 28.85        | 24.82        | 23.01        | 30.71        |
| Florida*          | 13.45        | 14.50        | 16.55        | 19.64        | 10.23        | 17.50        | 29.04        | NA           | NA           | NA           |
| Illinois          | 15.76        | 16.95        | 20.86        | 19.11        | 12.78        | 17.37        | 28.14        | 23.76        | 23.84        | 29.10        |
| Indiana           | 15.66        | 16.88        | 20.67        | 18.73        | 12.49        | 17.31        | 27.91        | 23.46        | 23.43        | 28.38        |
| Kansas            | 14.71        | 16.19        | 20.47        | 18.63        | 12.19        | 17.08        | 28.16        | 23.56        | 23.61        | 28.68        |
| Kentucky          | 15.33        | 16.43        | 20.24        | 17.97        | 11.67        | 16.68        | 26.47        | 22.53        | 22.49        | 27.21        |
| Louisiana         | 15.00        | 17.06        | 20.88        | 19.22        | 12.59        | 17.59        | 28.85        | 24.36        | 24.68        | 30.31        |
| Michigan          | 15.43        | 16.63        | 20.32        | 18.75        | 12.39        | 16.63        | 28.12        | 22.69        | 23.68        | 29.18        |
| Mississippi       | 13.45        | 14.76        | 18.93        | 16.94        | 10.33        | 15.42        | 26.23        | 21.13        | 22.11        | 27.46        |
| Missouri*         | 14.00        | 16.00        | 18.05        | 18.63        | 11.48        | 15.61        | 28.37        | 20.37        | 21.53        | 26.45        |
| Montana           | 13.43        | 14.93        | 18.89        | 17.00        | 11.28        | 16.54        | 27.82        | 23.16        | 22.76        | 28.66        |
| Nebraska          | 13.60        | 15.18        | 19.57        | 18.10        | 11.50        | 17.21        | 27.97        | 23.67        | 23.62        | 28.63        |
| Nevada*           | 11.25        | 12.25        | 15.01        | 15.00        | 11.27        | 13.87        | 22.68        | 17.13        | 17.91        | 24.54        |
| New Mexico        | 15.32        | 16.74        | 20.79        | 19.02        | 12.36        | 17.46        | 28.80        | 23.72        | 24.10        | 29.52        |
| New York*         | 15.94        | 16.74        | 20.95        | 18.49        | 11.46        | 16.18        | 28.60        | 22.76        | 24.92        | 28.91        |
| North Dakota      | 14.08        | 15.58        | 19.46        | 17.63        | 11.39        | 16.70        | 28.19        | 23.55        | 24.15        | 29.27        |
| Ohio*             | 15.98        | 16.67        | 19.96        | 17.77        | 12.20        | 16.41        | 27.49        | 22.55        | 22.61        | 27.64        |
| Oklahoma          | 15.33        | 16.68        | 20.60        | 19.05        | 12.73        | 17.77        | 29.08        | 24.68        | 24.49        | 29.72        |
| Pennsylvania*     | 16.12        | 16.93        | 20.99        | 18.79        | 13.67        | 18.49        | 28.80        | 24.82        | 24.86        | 29.60        |
| South Dakota*     | 14.24        | 15.53        | 19.56        | 17.80        | 12.29        | 16.86        | 28.18        | 23.89        | 23.96        | 28.94        |
| Tennessee*        | 15.03        | 16.50        | 19.55        | 17.26        | 11.24        | 15.93        | 26.28        | 21.96        | 21.89        | 26.56        |
| Texas             | 14.94        | 16.38        | 20.31        | 18.66        | 12.28        | 17.30        | 28.60        | 23.41        | 23.77        | 29.13        |
| Utah              | 16.38        | 17.71        | 21.10        | 18.57        | 12.52        | 17.69        | 28.53        | 24.09        | 23.87        | 28.88        |
| Virginia*         | 14.45        | 16.71        | 19.63        | 16.40        | 11.64        | 16.88        | NA           | NA           | NA           | 26.23        |
| West Virginia     | 15.68        | 16.53        | 19.59        | 17.56        | 11.95        | 16.46        | 27.12        | 22.35        | 22.55        | 28.06        |
| Wyoming           | 13.67        | 15.50        | 19.67        | 17.41        | 10.70        | 16.47        | 26.89        | 21.55        | 21.96        | 26.63        |
| <b>TOTAL U.S.</b> | <b>13.19</b> | <b>14.62</b> | <b>18.46</b> | <b>17.23</b> | <b>10.87</b> | <b>15.56</b> | <b>26.72</b> | <b>21.84</b> | <b>22.51</b> | <b>27.56</b> |

Source: Energy Information Administration \*Estimated by IPAA or state data.

Notes: Data represent average first purchase prices of crude oil at the lease or wellhead.

# Natural Gas Wellhead Prices

| (\$/Mcf)          | 1994        | 1995        | 1996        | 1997        | 1998        | 1999        | 2000        | 2001        | 2002        | 2003        |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Alabama           | 2.17        | 1.82        | 2.62        | 2.67        | 2.19        | 2.31        | 3.99        | 4.20        | 3.48        | 5.93        |
| Alaska            | 1.27        | 1.64        | 1.61        | 1.82        | 1.32        | 1.27        | 1.76        | 1.99        | 2.13        | 2.41        |
| Arizona           | 1.40        | 1.20        | 1.65        | 2.40        | 1.88        | 2.05        | 3.50        | 4.12        | 2.60        | 4.33        |
| Arkansas*         | 2.65        | 3.02        | 3.82        | 4.03        | 3.92        | 2.06        | 4.04        | 4.99        | 4.43        | 5.17        |
| California        | 1.50        | 1.73        | 1.82        | 2.41        | 1.97        | 2.37        | 4.81        | 6.93        | 2.92        | 5.04        |
| Colorado          | 1.39        | 0.95        | 1.37        | 2.23        | 1.90        | 1.68        | 2.06        | 4.05        | 2.41        | 4.54        |
| Florida*          | 1.28        | 1.24        | 2.11        | 1.06        | 1.42        | 2.50        | 1.76        | NA          | NA          | NA          |
| Illinois*         | 2.40        | 1.90        | 2.85        | 2.81        | 2.74        | 2.74        | 2.05        | NA          | NA          | NA          |
| Indiana           | 1.97        | 1.90        | 2.30        | 2.18        | 2.09        | 2.19        | 3.51        | 3.28        | 3.11        | 5.41        |
| Kansas            | 1.60        | 1.36        | 1.92        | 2.05        | 1.70        | 1.80        | 3.21        | 3.66        | 2.61        | 4.33        |
| Kentucky          | 2.24        | 1.64        | 2.55        | 2.66        | 2.39        | 2.07        | 3.16        | 4.78        | 3.01        | 4.54        |
| Louisiana         | 2.08        | 1.58        | 2.33        | 2.36        | 2.00        | 2.31        | 3.68        | 3.99        | 3.20        | 5.64        |
| Maryland          | 1.37        | 1.42        | 2.52        | 2.23        | 2.60        | 2.50        | 3.75        | 4.15        | 4.15        | 4.50        |
| Michigan          | 1.96        | 1.67        | 2.21        | 2.19        | 1.77        | 1.77        | 2.44        | 3.47        | 2.16        | 4.01        |
| Mississippi       | 1.49        | 1.24        | 1.66        | 1.73        | 1.42        | 1.57        | 3.30        | 3.93        | 3.06        | 5.13        |
| Missouri          | 1.49        | 1.70        | 1.56        | 1.70        | 1.62        | NA          | NA          | NA          | NA          | NA          |
| Montana           | 1.46        | 1.36        | 1.41        | 1.59        | 1.53        | 1.68        | 2.84        | 3.12        | 2.39        | 3.73        |
| Nebraska          | 1.60        | 1.19        | 1.43        | 1.53        | 1.30        | 1.36        | 2.26        | 2.16        | 1.52        | 3.17        |
| New Mexico        | 1.58        | 1.26        | 1.67        | 1.76        | 1.76        | 2.11        | 3.43        | 3.89        | 2.68        | 4.56        |
| New York*         | 2.35        | 2.30        | 2.21        | 2.56        | 2.56        | 2.19        | 3.75        | 4.85        | 3.03        | 5.78        |
| North Dakota      | 1.86        | 0.83        | 2.13        | 2.16        | 2.14        | 2.32        | 3.94        | 3.53        | 2.98        | 3.53        |
| Ohio              | 2.43        | 2.33        | 2.63        | 2.70        | 2.95        | 2.41        | 4.06        | 4.54        | 4.52        | 5.90        |
| Oklahoma          | 1.70        | 1.44        | 2.21        | 2.32        | 1.77        | 2.05        | 3.63        | 4.03        | 2.94        | 4.97        |
| Oregon            | 2.06        | 0.93        | 2.26        | 2.19        | 2.38        | 2.06        | 2.69        | 3.66        | 3.97        | NA          |
| Pennsylvania*     | 2.76        | 2.84        | 3.08        | 3.17        | 2.97        | 3.09        | 2.31        | 3.41        | 3.41        | NA          |
| South Dakota      | 1.73        | 1.59        | 1.98        | 2.09        | 2.47        | 2.13        | 3.56        | 3.42        | 4.35        | 4.98        |
| Tennessee         | 2.16        | 1.54        | 2.54        | 2.55        | 2.15        | 2.28        | 4.09        | 3.60        | 3.41        | 5.22        |
| Texas             | 1.89        | 1.61        | 2.29        | 2.48        | 2.06        | 2.31        | 3.93        | 4.14        | 3.16        | 5.18        |
| Utah              | 1.54        | 1.15        | 1.39        | 1.86        | 1.73        | 1.92        | 3.28        | 3.52        | 1.99        | 4.11        |
| Virginia*         | 2.15        | 1.72        | 2.79        | 2.55        | 2.16        | 2.49        | 3.97        | 4.29        | 3.16        | 4.65        |
| West Virginia*    | 2.62        | 2.22        | 3.05        | 2.63        | 2.37        | 2.99        | 3.24        | 4.12        | 3.44        | 4.34        |
| Wyoming           | 2.05        | 1.78        | 2.57        | 2.42        | 1.78        | 1.97        | 3.34        | 3.49        | 2.70        | 4.13        |
| <b>TOTAL U.S.</b> | <b>1.85</b> | <b>1.55</b> | <b>2.17</b> | <b>2.32</b> | <b>1.96</b> | <b>2.19</b> | <b>3.68</b> | <b>4.00</b> | <b>2.95</b> | <b>4.88</b> |

Source: Energy Information Administration and State sources

## Refiner Acquisition Cost of Crude Oil

| (\$/bbl.) | Domestic | Imported | Composite |
|-----------|----------|----------|-----------|
| 1977      | 9.55     | 14.53    | 11.96     |
| 1978      | 10.61    | 14.57    | 12.46     |
| 1979      | 14.27    | 21.67    | 17.72     |
| 1980      | 24.23    | 33.89    | 28.07     |
| 1981      | 34.33    | 37.05    | 35.24     |
| 1982      | 31.22    | 33.55    | 31.87     |
| 1983      | 28.87    | 29.30    | 28.99     |
| 1984      | 28.53    | 28.88    | 28.63     |
| 1985      | 26.66    | 26.99    | 26.75     |
| 1986      | 14.82    | 14.00    | 14.55     |
| 1987      | 17.76    | 18.13    | 17.90     |
| 1988      | 14.74    | 14.56    | 14.67     |
| 1989      | 17.87    | 18.08    | 17.97     |
| 1990      | 22.59    | 21.76    | 22.22     |
| 1991      | 19.33    | 18.70    | 19.06     |
| 1992      | 18.63    | 18.20    | 18.43     |
| 1993      | 16.67    | 16.14    | 16.41     |
| 1994      | 15.67    | 15.51    | 15.59     |
| 1995      | 17.33    | 17.14    | 17.23     |
| 1996      | 20.77    | 20.64    | 20.71     |
| 1997      | 19.61    | 18.53    | 19.04     |
| 1998      | 13.18    | 12.04    | 12.52     |
| 1999      | 17.90    | 17.26    | 17.51     |
| 2000      | 29.11    | 27.70    | 28.26     |
| 2001      | 24.33    | 22.00    | 22.95     |
| 2002      | 24.65    | 23.71    | 24.10     |
| 2003      | 29.82    | 27.71    | 28.53     |

Source: Energy Information Administration

## Retail Gasoline Prices

| (¢/gal.) | Excluding Taxes | Taxes | Pump Price |
|----------|-----------------|-------|------------|
| 1981     | 114.7           | 23.1  | 137.8      |
| 1982     | 106.0           | 23.6  | 129.6      |
| 1983     | 95.4            | 28.7  | 124.1      |
| 1984     | 90.7            | 30.5  | 121.2      |
| 1985     | 91.2            | 29.0  | 120.2      |
| 1986     | 62.4            | 30.3  | 92.7       |
| 1987     | 66.9            | 27.9  | 94.8       |
| 1988     | 67.3            | 27.3  | 94.6       |
| 1989     | 75.6            | 26.5  | 102.1      |
| 1990     | 88.3            | 28.1  | 116.4      |
| 1991     | 79.7            | 34.3  | 114.0      |
| 1992     | 78.7            | 34.0  | 112.7      |
| 1993     | 75.9            | 34.9  | 110.8      |
| 1994     | 73.8            | 37.4  | 111.2      |
| 1995     | 76.5            | 38.2  | 114.7      |
| 1996     | 84.7            | 38.4  | 123.1      |
| 1997     | 83.9            | 39.5  | 123.4      |
| 1998     | 67.3            | 38.6  | 105.9      |
| 1999     | 78.1            | 38.4  | 116.5      |
| 2000     | 110.6           | 40.4  | 151.0      |
| 2001     | 103.2           | 42.9  | 146.1      |
| 2002     | 94.7            | 41.1  | 135.8      |
| 2003     | 115.6           | 43.5  | 159.1      |

Source: Energy Information Administration. Pump price quoted for unleaded regular.

## World Crude Oil Reserves

| (mill. bbls.) | United States | Canada  | Latin America | Middle East | Africa | Asia Pacific | Western Europe | Eastern Europe & FSU | Total World |
|---------------|---------------|---------|---------------|-------------|--------|--------------|----------------|----------------------|-------------|
| 1987          | 26,889        | 6,825   | 114,321       | 564,680     | 55,250 | 19,354       | 22,448         | 79,200               | 889,334     |
| 1988          | 27,256        | 6,786   | 121,951       | 571,519     | 56,964 | 21,367       | 18,557         | 83,800               | 907,768     |
| 1989          | 26,825        | 6,133   | 125,027       | 660,247     | 58,387 | 22,545       | 18,822         | 84,100               | 1,002,213   |
| 1990          | 26,501        | 5,783   | 121,091       | 662,598     | 59,892 | 50,242       | 14,476         | 58,855               | 999,113     |
| 1991          | 26,254        | 5,588   | 119,765       | 661,571     | 60,488 | 44,073       | 14,503         | 58,774               | 991,011     |
| 1992          | 24,682        | 5,292   | 123,811       | 661,791     | 61,872 | 44,572       | 15,829         | 59,193               | 997,042     |
| 1993          | 23,745        | 5,096   | 124,996       | 662,866     | 61,963 | 44,647       | 16,643         | 59,168               | 999,124     |
| 1994          | 22,457        | 5,096   | 129,073       | 660,295     | 62,177 | 44,453       | 16,572         | 59,196               | 999,319     |
| 1995          | 22,957        | 4,898   | 128,695       | 659,555     | 73,154 | 43,953       | 15,573         | 59,188               | 1,007,475   |
| 1996          | 22,351        | 4,893   | 127,943       | 676,352     | 67,555 | 42,299       | 18,361         | 59,093               | 1,018,849   |
| 1997          | 22,071        | 4,839   | 126,115       | 676,952     | 70,062 | 42,275       | 18,128         | 59,101               | 1,019,545   |
| 1998          | 22,546        | 4,931   | 136,867       | 673,647     | 75,442 | 43,013       | 18,719         | 59,053               | 1,034,265   |
| 1999          | 21,034        | 4,931   | 117,931       | 675,636     | 74,890 | 43,985       | 18,611         | 59,024               | 1,016,041   |
| 2000          | 21,765        | 4,706   | 122,809       | 683,516     | 74,889 | 43,957       | 17,185         | 59,024               | 1,027,852   |
| 2001          | 22,045        | 4,858   | 122,912       | 685,592     | 76,677 | 43,779       | 17,135         | 58,555               | 1,031,553   |
| 2002          | 22,446        | 180,021 | 111,173       | 685,642     | 77,429 | 38,712       | 18,098         | 79,360               | 1,212,881   |
| 2003          | 22,677        | 178,893 | 114,522       | 726,842     | 87,043 | 38,258       | 18,233         | 79,343               | 1,265,812   |

Source: Oil & Gas Journal & EIA. Totals may not add due to rounding. Canadian growth due to inclusion of oil sands reserves.

# Wholesale Prices — Total U.S.

| Year | Motor Gasoline | Kerosene | Fuel Oil                |          | Average<br>Of Four Products | Crude Oil |
|------|----------------|----------|-------------------------|----------|-----------------------------|-----------|
|      |                |          | Distillate<br>(\$/gal.) | Residual |                             |           |
| 1948 | 10.53          | 9.92     | 8.94                    | 5.72     | 8.81                        | 2.60      |
| 1949 | 10.71          | 9.11     | 7.72                    | 3.31     | 7.96                        | 2.54      |
| 1950 | 10.86          | 9.39     | 7.97                    | 3.98     | 8.29                        | 2.51      |
| 1951 | 11.40          | 9.85     | 8.50                    | 4.42     | 8.79                        | 2.53      |
| 1952 | 11.38          | 9.90     | 8.52                    | 3.84     | 8.62                        | 2.53      |
| 1953 | 12.01          | 10.23    | 8.83                    | 3.73     | 8.96                        | 2.68      |
| 1954 | 11.66          | 10.40    | 8.94                    | 3.97     | 8.88                        | 2.78      |
| 1955 | 11.62          | 10.53    | 9.08                    | 4.53     | 9.06                        | 2.77      |
| 1956 | 11.75          | 10.99    | 9.45                    | 5.30     | 9.43                        | 2.79      |
| 1957 | 12.34          | 11.54    | 10.05                   | 6.15     | 10.10                       | 3.09      |
| 1958 | 11.74          | 10.96    | 9.39                    | 4.82     | 9.27                        | 3.01      |
| 1959 | 11.64          | 11.26    | 9.31                    | 4.79     | 9.22                        | 2.90      |
| 1960 | 11.61          | 11.17    | 8.79                    | 4.88     | 9.15                        | 2.88      |
| 1961 | 11.62          | 11.49    | 9.10                    | 4.85     | 9.21                        | 2.89      |
| 1962 | 11.52          | 11.42    | 9.11                    | 4.78     | 9.13                        | 2.90      |
| 1963 | 11.35          | 11.51    | 9.18                    | 4.61     | 9.01                        | 2.89      |
| 1964 | 11.27          | 10.93    | 8.65                    | 4.50     | 8.83                        | 2.88      |
| 1965 | 11.52          | 11.28    | 9.04                    | 4.81     | 9.12                        | 2.86      |
| 1966 | 11.59          | 11.49    | 9.09                    | 4.73     | 9.15                        | 2.88      |
| 1967 | 11.84          | 11.96    | 9.71                    | 4.53     | 9.33                        | 2.92      |
| 1968 | 11.55          | 12.03    | 9.84                    | 4.30     | 9.14                        | 2.94      |
| 1969 | 11.80          | 11.98    | 10.06                   | 4.20     | 9.27                        | 3.09      |
| 1970 | 12.33          | 12.43    | 10.45                   | 6.14     | 10.20                       | 3.18      |
| 1971 | 12.70          | 12.90    | 10.75                   | 7.76     | 10.94                       | 3.39      |
| 1972 | 12.70          | 12.87    | 10.61                   | 7.60     | 10.87                       | 3.39      |
| 1973 | 14.72          | 14.08    | 12.61                   | 8.45     | 12.49                       | 3.89      |
| 1974 | 25.53          | 24.02    | 22.57                   | 20.43    | 23.48                       | 6.87      |
| 1975 | 30.27          | 27.41    | 26.09                   | 22.03    | 27.03                       | 7.67      |
| 1976 | 33.82          | 31.67    | 30.38                   | 21.66    | 29.55                       | 8.19      |
| 1977 | 36.99          | 35.81    | 34.41                   | 25.87    | 33.21                       | 8.57      |
| 1978 | 39.22          | 37.23    | 35.66                   | 23.00    | 33.72                       | 9.00      |
| 1979 | 56.84          | 56.60    | 54.47                   | 33.63    | 49.50                       | 12.64     |
| 1980 | 87.40          | 80.26    | 78.21                   | 44.43    | 72.77                       | 21.59     |
| 1981 | 101.63         | 101.03   | 97.20                   | 61.17    | 88.75                       | 31.77     |
| 1982 | 94.56          | 97.18    | 91.95                   | 57.80    | 83.27                       | 28.52     |
| 1983 | 86.97          | 85.12    | 80.05                   | 57.30    | 76.94                       | 26.19     |
| 1984 | 81.14          | 84.75    | 79.62                   | 59.14    | 74.49                       | 25.88     |
| 1985 | 81.11          | 81.69    | 76.66                   | 56.41    | 73.06                       | 24.09     |
| 1986 | 47.74          | 49.92    | 44.91                   | 36.23    | 43.97                       | 12.51     |
| 1987 | 53.22          | 56.75    | 52.25                   | 45.36    | 50.89                       | 15.40     |
| 1988 | 50.31          | 50.72    | 46.10                   | 38.72    | 46.22                       | 12.58     |
| 1989 | 59.15          | 60.78    | 56.02                   | 40.87    | 53.28                       | 15.86     |
| 1990 | 72.13          | 73.37    | 67.82                   | 50.99    | 65.20                       | 20.03     |
| 1991 | 64.24          | 64.79    | 59.81                   | 40.94    | 56.61                       | 16.54     |
| 1992 | 60.90          | 62.78    | 58.12                   | 41.67    | 54.81                       | 15.99     |
| 1993 | 54.85          | 59.98    | 55.54                   | 40.22    | 50.82                       | 14.25     |
| 1994 | 52.95          | 57.67    | 53.22                   | 42.50    | 50.09                       | 13.19     |
| 1995 | 55.51          | 58.15    | 53.74                   | 47.41    | 51.63                       | 14.62     |
| 1996 | 68.29          | 74.02    | 69.64                   | 53.78    | 64.43                       | 18.46     |
| 1997 | 66.21          | 62.26    | 66.81                   | 54.69    | 62.19                       | 17.23     |
| 1998 | 52.60          | 45.00    | 43.90                   | 28.00    | 42.38                       | 10.87     |
| 1999 | 64.50          | 53.30    | 53.60                   | 35.40    | 51.70                       | 15.56     |
| 2000 | 96.30          | 88.00    | 89.60                   | 56.60    | 82.63                       | 26.72     |
| 2001 | 88.60          | 76.30    | 77.90                   | 47.60    | 72.60                       | 21.84     |
| 2002 | 82.80          | 71.60    | 71.80                   | 53.00    | 69.80                       | 22.51     |
| 2003 | 82.80          | 87.10    | 88.20                   | 66.10    | 81.05                       | 27.56     |

Sources: Petroleum product prices derived by IPAA from Platt's Oilgram Price Report thru 1997. EIA prices used thereafter. Crude oil wellhead prices from EIA. Notes: Data reflect price trends only, not actual sale prices. Motor gasoline prices represent leaded fuel prior to 1982, and unleaded thereafter.

# Petroleum Consumption

| (Thous. bbls)     | 1992             | 1993             | 1994             | 1995             | 1996             | 1997             | 1998             | 1999             | 2000             | 2001             |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Alabama           | 97,074           | 98,167           | 103,212          | 102,873          | 100,172          | 96,652           | 96,207           | 102,676          | 107,598          | 100,835          |
| Alaska            | 36,376           | 34,584           | 35,366           | 39,253           | 39,508           | 43,221           | 44,988           | 44,671           | 45,779           | 51,099           |
| Arizona           | 67,342           | 69,673           | 71,238           | 75,359           | 80,223           | 80,656           | 88,246           | 91,654           | 93,448           | 96,789           |
| Arkansas          | 52,768           | 54,945           | 57,198           | 57,213           | 62,485           | 64,186           | 63,999           | 72,190           | 74,057           | 71,038           |
| California        | 592,992          | 573,050          | 595,417          | 599,599          | 605,810          | 594,582          | 604,043          | 617,760          | 647,484          | 656,863          |
| Colorado          | 64,339           | 68,895           | 70,528           | 72,136           | 76,174           | 72,013           | 76,177           | 79,029           | 85,215           | 86,814           |
| Connecticut       | 73,862           | 71,957           | 68,592           | 66,486           | 76,201           | 80,996           | 79,328           | 79,478           | 69,318           | 79,501           |
| Delaware          | 25,481           | 25,608           | 24,603           | 22,420           | 25,451           | 23,666           | 24,171           | 25,160           | 24,757           | 26,155           |
| Dist. of Columbia | 6,142            | 6,671            | 6,804            | 6,730            | 6,435            | 6,314            | 6,761            | 6,162            | 6,213            | 6,135            |
| Florida           | 282,506          | 292,446          | 301,899          | 292,904          | 301,746          | 311,064          | 341,932          | 345,014          | 355,856          | 358,559          |
| Georgia           | 151,983          | 167,620          | 169,308          | 177,723          | 185,282          | 179,166          | 183,366          | 193,170          | 193,503          | 191,681          |
| Hawaii            | 44,439           | 38,814           | 41,396           | 40,947           | 38,811           | 37,134           | 38,159           | 37,031           | 38,501           | 41,480           |
| Idaho             | 22,456           | 24,108           | 24,940           | 26,490           | 29,473           | 28,053           | 28,286           | 30,804           | 31,967           | 28,576           |
| Illinois          | 213,786          | 225,810          | 230,288          | 232,270          | 231,870          | 234,519          | 228,809          | 250,369          | 247,728          | 242,769          |
| Indiana           | 147,909          | 153,432          | 159,628          | 157,002          | 156,348          | 160,372          | 158,945          | 163,950          | 166,875          | 153,632          |
| Iowa              | 60,908           | 69,139           | 72,650           | 74,540           | 73,558           | 73,197           | 79,122           | 82,698           | 82,759           | 78,716           |
| Kansas            | 75,565           | 67,354           | 66,810           | 67,162           | 73,329           | 76,336           | 76,133           | 86,511           | 79,612           | 73,906           |
| Kentucky          | 109,035          | 109,381          | 111,446          | 113,600          | 118,817          | 129,077          | 129,309          | 134,515          | 132,476          | 130,889          |
| Louisiana         | 273,850          | 275,569          | 296,101          | 282,424          | 273,409          | 246,790          | 237,839          | 280,507          | 333,434          | 288,776          |
| Maine             | 39,800           | 41,794           | 43,805           | 42,946           | 45,894           | 46,897           | 46,544           | 44,610           | 44,740           | 41,740           |
| Maryland          | 90,150           | 94,629           | 95,222           | 90,553           | 94,769           | 96,466           | 101,763          | 106,067          | 101,273          | 103,914          |
| Massachusetts     | 132,967          | 132,046          | 127,278          | 122,831          | 126,936          | 135,822          | 131,946          | 117,551          | 124,235          | 137,854          |
| Michigan          | 175,766          | 180,867          | 183,067          | 186,493          | 192,297          | 197,319          | 197,201          | 207,214          | 201,214          | 198,642          |
| Minnesota         | 100,630          | 104,881          | 109,988          | 113,802          | 118,574          | 118,293          | 116,931          | 122,077          | 126,005          | 124,687          |
| Mississippi       | 76,723           | 79,779           | 76,460           | 74,000           | 78,970           | 78,062           | 83,050           | 88,304           | 86,170           | 89,146           |
| Missouri          | 115,507          | 120,350          | 126,619          | 130,732          | 134,876          | 134,678          | 141,228          | 145,967          | 130,373          | 135,381          |
| Montana           | 26,503           | 28,712           | 28,255           | 28,344           | 31,284           | 29,969           | 28,603           | 30,735           | 30,163           | 30,276           |
| Nebraska          | 38,042           | 37,791           | 39,834           | 40,435           | 43,778           | 43,794           | 45,596           | 45,542           | 42,323           | 40,811           |
| Nevada            | 32,329           | 33,237           | 35,019           | 36,780           | 39,319           | 38,487           | 40,675           | 40,840           | 42,459           | 45,867           |
| New Hampshire     | 25,931           | 26,836           | 27,386           | 27,832           | 31,207           | 32,160           | 33,792           | 34,807           | 33,948           | 33,296           |
| New Jersey        | 217,158          | 212,090          | 227,086          | 224,082          | 213,219          | 217,228          | 213,981          | 223,915          | 228,233          | 225,683          |
| New Mexico        | 47,223           | 46,580           | 44,220           | 40,603           | 40,605           | 42,736           | 45,001           | 48,035           | 46,353           | 47,126           |
| New York          | 280,679          | 284,037          | 271,166          | 268,605          | 293,887          | 288,719          | 294,830          | 298,522          | 307,081          | 308,659          |
| North Carolina    | 139,592          | 146,317          | 148,712          | 157,325          | 171,431          | 174,706          | 176,050          | 175,638          | 183,102          | 178,544          |
| North Dakota      | 21,574           | 21,199           | 21,861           | 21,597           | 22,194           | 22,664           | 20,939           | 22,658           | 22,605           | 26,445           |
| Ohio              | 210,093          | 215,491          | 220,314          | 220,038          | 230,280          | 235,996          | 233,324          | 246,488          | 244,772          | 239,604          |
| Oklahoma          | 86,669           | 85,383           | 87,896           | 81,462           | 86,546           | 86,747           | 87,169           | 93,600           | 95,912           | 106,892          |
| Oregon            | 66,346           | 64,765           | 65,346           | 65,344           | 65,697           | 65,437           | 71,768           | 70,827           | 68,660           | 67,081           |
| Pennsylvania      | 231,364          | 238,926          | 242,713          | 240,721          | 240,207          | 243,415          | 249,910          | 250,940          | 256,755          | 263,233          |
| Rhode Island      | 17,999           | 17,730           | 18,233           | 17,789           | 17,706           | 18,791           | 17,803           | 18,073           | 17,800           | 18,275           |
| South Carolina    | 76,988           | 79,292           | 79,368           | 80,641           | 77,358           | 83,514           | 85,935           | 86,705           | 89,469           | 87,150           |
| South Dakota      | 19,412           | 20,562           | 21,386           | 21,490           | 22,166           | 21,552           | 21,014           | 21,341           | 22,193           | 20,935           |
| Tennessee         | 112,097          | 114,802          | 119,815          | 124,042          | 120,653          | 122,117          | 127,230          | 130,951          | 132,503          | 129,979          |
| Texas             | 953,817          | 937,518          | 986,013          | 978,535          | 1,069,057        | 1,135,414        | 1,150,682        | 1,157,769        | 1,133,581        | 1,129,174        |
| Utah              | 37,303           | 38,004           | 39,028           | 42,417           | 45,806           | 45,813           | 46,245           | 47,601           | 50,266           | 47,939           |
| Vermont           | 14,823           | 15,082           | 14,827           | 15,116           | 16,013           | 16,256           | 15,814           | 15,905           | 16,549           | 16,984           |
| Virginia          | 133,999          | 138,942          | 140,990          | 141,798          | 146,453          | 151,353          | 155,079          | 158,419          | 165,741          | 167,126          |
| Washington        | 153,895          | 139,909          | 145,459          | 150,760          | 149,454          | 152,833          | 155,164          | 157,367          | 156,472          | 152,846          |
| West Virginia     | 47,676           | 48,367           | 50,037           | 50,308           | 36,673           | 39,793           | 41,817           | 40,040           | 40,009           | 39,425           |
| Wisconsin         | 90,760           | 95,502           | 99,361           | 100,240          | 114,503          | 116,045          | 117,946          | 125,170          | 124,951          | 124,784          |
| Wyoming           | 21,403           | 22,765           | 22,940           | 24,681           | 26,145           | 25,343           | 24,000           | 27,528           | 28,107           | 28,064           |
| <b>Total U.S.</b> | <b>6,234,031</b> | <b>6,291,408</b> | <b>6,467,128</b> | <b>6,469,473</b> | <b>6,699,059</b> | <b>6,796,413</b> | <b>6,904,850</b> | <b>7,124,555</b> | <b>7,210,597</b> | <b>7,171,778</b> |

Source: Energy Information Administration. 2002 data not yet available.

# Natural Gas Consumption

| (Mmcf)            | 1994              | 1995              | 1996              | 1997              | 1998              | 1999              | 2000              | 2001              | 2002              | 2003              |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Alabama           | 260,830           | 287,239           | 293,084           | 292,094           | 298,102           | 295,393           | 315,202           | 299,555           | 343,912           | 316,773           |
| Alaska            | 126,045           | 134,996           | 150,877           | 149,164           | 147,426           | 150,079           | 150,745           | 132,428           | 129,292           | 135,044           |
| Arizona           | 108,515           | 101,731           | 103,037           | 112,590           | 134,871           | 142,217           | 184,542           | 217,684           | 230,493           | 254,725           |
| Arkansas          | 227,835           | 240,071           | 252,585           | 244,644           | 254,142           | 249,342           | 240,672           | 217,640           | 233,046           | 237,429           |
| California        | 2,041,539         | 1,839,721         | 1,721,217         | 1,850,248         | 1,933,371         | 2,070,679         | 2,434,770         | 2,398,279         | 2,218,923         | 2,167,037         |
| Colorado          | 241,416           | 247,180           | 269,006           | 263,988           | 271,849           | 270,999           | 321,784           | 412,187           | 404,873           | 377,797           |
| Connecticut       | 119,334           | 131,130           | 126,488           | 134,557           | 120,955           | 131,134           | 156,692           | 143,183           | 175,072           | 150,693           |
| Delaware          | 48,632            | 60,658            | 54,020            | 46,480            | 40,769            | 55,930            | 48,325            | 50,044            | 52,167            | 46,143            |
| Dist. of Columbia | 30,607            | 32,735            | 33,644            | 33,824            | 30,115            | 31,993            | 33,225            | 29,493            | 32,656            | 32,345            |
| Florida           | 361,428           | 507,329           | 478,471           | 477,601           | 460,082           | 510,239           | 532,297           | 533,855           | 676,854           | 679,182           |
| Georgia           | 334,418           | 362,734           | 374,882           | 353,700           | 349,701           | 322,727           | 408,209           | 343,179           | 375,567           | 371,849           |
| Hawaii            | 2,778             | 2,773             | 2,672             | 2,611             | 2,654             | 2,735             | 2,841             | 2,818             | 2,734             | 2,732             |
| Idaho             | 52,164            | 57,407            | 61,058            | 61,707            | 62,018            | 64,414            | 66,758            | 73,655            | 65,510            | 65,330            |
| Illinois          | 1,010,989         | 1,065,238         | 1,104,972         | 1,062,463         | 944,563           | 980,594           | 1,017,283         | 940,398           | 1,036,615         | 988,136           |
| Indiana           | 512,482           | 527,719           | 561,056           | 546,337           | 513,375           | 522,758           | 564,919           | 494,360           | 533,754           | 520,353           |
| Iowa              | 237,614           | 251,262           | 260,140           | 243,476           | 223,826           | 223,510           | 224,299           | 215,309           | 215,482           | 220,259           |
| Kansas            | 341,677           | 286,430           | 275,508           | 253,242           | 260,044           | 240,427           | 253,037           | 224,360           | 239,449           | 227,436           |
| Kentucky          | 182,710           | 196,392           | 207,529           | 202,583           | 186,990           | 199,356           | 208,848           | 191,531           | 211,950           | 206,023           |
| Louisiana         | 1,353,337         | 1,443,515         | 1,382,966         | 1,360,160         | 1,312,174         | 1,265,917         | 1,286,353         | 1,069,711         | 1,193,418         | 1,079,714         |
| Maine             | 5,045             | 5,333             | 5,722             | 6,290             | 5,716             | 6,572             | 43,971            | 94,569            | 100,659           | 69,973            |
| Maryland          | 181,259           | 191,272           | 189,901           | 204,319           | 176,323           | 191,579           | 208,8946          | 175,425           | 193,766           | 194,049           |
| Massachusetts     | 335,544           | 360,429           | 355,609           | 377,911           | 335,874           | 336,560           | 340,923           | 345,791           | 388,972           | 451,111           |
| Michigan          | 893,735           | 936,466           | 980,555           | 943,881           | 813,457           | 882,580           | 926,633           | 874,325           | 926,299           | 888,585           |
| Minnesota         | 306,505           | 333,900           | 348,671           | 334,572           | 305,174           | 317,793           | 340,988           | 321,798           | 348,523           | 351,009           |
| Mississippi       | 225,730           | 242,887           | 216,524           | 206,749           | 201,209           | 266,585           | 266,008           | 298,278           | 312,317           | 235,599           |
| Missouri          | 264,715           | 271,956           | 286,814           | 276,124           | 253,682           | 259,404           | 277,206           | 281,763           | 273,073           | 259,527           |
| Montana           | 46,274            | 51,660            | 55,584            | 54,114            | 54,071            | 55,095            | 57,725            | 54,476            | 58,451            | 56,074            |
| Nebraska          | 123,373           | 132,923           | 128,297           | 128,031           | 127,779           | 118,471           | 123,791           | 118,890           | 117,427           | 113,320           |
| Nevada            | 101,105           | 110,273           | 122,449           | 127,969           | 142,970           | 150,725           | 188,288           | 175,505           | 175,739           | 184,153           |
| New Hampshire     | 18,732            | 19,877            | 19,031            | 20,822            | 19,103            | 20,310            | 24,918            | 23,373            | 24,841            | 54,465            |
| New Jersey        | 582,356           | 588,315           | 599,810           | 617,638           | 579,099           | 612,672           | 602,377           | 560,887           | 597,158           | 611,358           |
| New Mexico        | 106,849           | 105,796           | 113,059           | 123,435           | 127,354           | 124,843           | 139,812           | 144,018           | 119,828           | 115,280           |
| New York          | 1,005,676         | 1,131,325         | 1,121,742         | 1,220,113         | 1,135,250         | 1,209,650         | 1,236,734         | 1,165,250         | 1,190,745         | 1,092,182         |
| North Carolina    | 182,107           | 196,626           | 205,783           | 206,940           | 206,129           | 210,269           | 226,543           | 200,489           | 229,338           | 212,534           |
| North Dakota      | 27,301            | 29,371            | 32,670            | 42,826            | 40,782            | 38,160            | 36,499            | 38,787            | 42,569            | 37,059            |
| Ohio              | 824,119           | 877,112           | 915,035           | 878,124           | 794,255           | 828,215           | 871,444           | 787,190           | 813,735           | 831,905           |
| Oklahoma          | 454,889           | 456,674           | 460,373           | 452,553           | 483,117           | 448,987           | 450,596           | 399,969           | 459,152           | 442,704           |
| Oregon            | 140,526           | 138,545           | 160,626           | 159,105           | 192,094           | 198,4192          | 213,063           | 218,563           | 193,006           | 205,515           |
| Pennsylvania      | 656,021           | 680,495           | 684,022           | 652,219           | 587,218           | 635,749           | 659,042           | 595,625           | 632,035           | 651,567           |
| Rhode Island      | 70,901            | 69,520            | 82,041            | 82,100            | 85,811            | 83,933            | 88,124            | 95,288            | 87,472            | 78,074            |
| South Carolina    | 141,863           | 148,980           | 146,434           | 150,962           | 153,476           | 154,025           | 156,975           | 138,846           | 181,648           | 143,833           |
| South Dakota      | 28,002            | 31,164            | 33,594            | 32,289            | 29,383            | 28,901            | 30,667            | 30,753            | 35,018            | 37,011            |
| Tennessee         | 228,007           | 239,100           | 256,053           | 259,773           | 263,778           | 261,234           | 256,821           | 242,108           | 243,955           | 245,904           |
| Texas             | 3,272,393         | 3,387,065         | 3,585,201         | 3,566,640         | 3,634,920         | 3,507,316         | 4,073,007         | 3,916,218         | 3,966,512         | 3,748,549         |
| Utah              | 120,993           | 126,981           | 129,651           | 137,605           | 139,380           | 133,304           | 137,213           | 134,650           | 135,699           | 125,502           |
| Vermont           | 7,297             | 7,268             | 7,325             | 8,052             | 7,726             | 8,024             | 10,411            | 7,905             | 8,353             | 8,386             |
| Virginia          | 223,122           | 239,616           | 230,140           | 232,674           | 234,692           | 255,574           | 258,975           | 228,407           | 247,351           | 254,009           |
| Washington        | 206,346           | 211,791           | 231,767           | 222,391           | 254,067           | 256,049           | 280,617           | 302,778           | 227,360           | 243,074           |
| West Virginia     | 107,197           | 113,908           | 115,622           | 119,512           | 104,879           | 103,952           | 106,057           | 101,894           | 103,119           | 103,712           |
| Wisconsin         | 345,748           | 376,291           | 398,581           | 396,055           | 355,650           | 369,830           | 389,543           | 356,712           | 381,498           | 391,186           |
| Wyoming           | 81,507            | 70,986            | 73,609            | 70,797            | 77,656            | 60,600            | 63,384            | 60,375            | 69,633            | 67,627            |
| <b>TOTAL U.S.</b> | <b>18,909,587</b> | <b>19,660,165</b> | <b>20,005,507</b> | <b>20,004,011</b> | <b>19,469,048</b> | <b>21,651,078</b> | <b>21,539,964</b> | <b>20,495,108</b> | <b>21,227,015</b> | <b>20,587,447</b> |

Source: Energy Information Administration. Volumes delivered to consumers.

# Industry Employment — 2003

| State             | Mining               | Refining           | Transportation |                       | Wholesale        | Retail             | Total             |                  |
|-------------------|----------------------|--------------------|----------------|-----------------------|------------------|--------------------|-------------------|------------------|
|                   | Oil & Gas Extraction | Petroleum Refining | Oils & Greases | Pipelines, Except Gas | Gas Distribution | Petroleum Products | Gasoline Stations | Industry         |
| Alabama           | 1,546                | 350                | 681            | 66                    | 2,384            | 2,973              | 19,432            | 27,432           |
| Alaska            | 8,329                | ND                 | 377            | ND                    | 212              | 1,178              | 1,783             | 11,879           |
| Arizona           | 200                  | ND                 | ND             | ND                    | ND               | 1,182              | 16,474            | 17,856           |
| Arkansas          | 1,838                | 458                | ND             | ND                    | 1,645            | 1,590              | 13,109            | 18,640           |
| California        | 14,526               | 13,145             | 909            | 786                   | 31,895           | 10,800             | 55,555            | 127,616          |
| Colorado          | 8,361                | 390                | ND             | ND                    | 2,036            | 2,162              | 13,954            | 26,903           |
| Connecticut       | 28                   | ND                 | ND             | ND                    | 1,430            | 5,175              | 6,404             | 13,037           |
| Delaware          | 37                   | ND                 | ND             | ND                    | ND               | 1,077              | 2,662             | 3,776            |
| Dist. of Columbia | 42                   | 22                 | ND             | 21                    | ND               | ND                 | 551               | 635              |
| Florida           | 1,579                | 76                 | 318            | 138                   | 1,785            | 5,532              | 38,948            | 48,376           |
| Georgia           | 344                  | 125                | 172            | 155                   | 1,994            | 4,692              | 28,409            | 35,891           |
| Hawaii            | ND                   | ND                 | 430            | ND                    | ND               | 389                | 2,864             | 3,683            |
| Idaho             | 25                   | ND                 | ND             | ND                    | ND               | 1,082              | 5,153             | 6,260            |
| Illinois          | 1,962                | 4,858              | 1,658          | 414                   | 5,877            | 2,475              | 27,212            | 44,456           |
| Indiana           | 324                  | ND                 | 419            | 232                   | 3,154            | 3,664              | 25,555            | 33,348           |
| Iowa              | 16                   | ND                 | 122            | 144                   | 839              | 885                | 18,421            | 20,427           |
| Kansas            | 5,505                | 1,303              | 218            | 696                   | 2,264            | 2,073              | 11,058            | 23,117           |
| Kentucky          | 1,688                | 731                | 459            | 1,251                 | 1,881            | 1,949              | 20,670            | 28,629           |
| Louisiana         | 42,909               | 9,235              | 849            | 727                   | 3,242            | 4,282              | 19,440            | 80,684           |
| Maine             | ND                   | ND                 | 386            | ND                    | 59               | 4,389              | 7,718             | 12,552           |
| Maryland          | 203                  | 38                 | ND             | 251                   | 708              | 2,793              | 11,682            | 15,675           |
| Massachusetts     | 157                  | ND                 | 1,221          | ND                    | 2,884            | 6,972              | 12,396            | 23,630           |
| Michigan          | 2,164                | ND                 | ND             | ND                    | 4,268            | 3,289              | 27,230            | 36,951           |
| Minnesota         | 100                  | 1,097              | ND             | 299                   | 3,882            | 3,806              | 25,778            | 34,962           |
| Mississippi       | 3,760                | ND                 | 145            | 260                   | 1,380            | 2,583              | 16,341            | 24,469           |
| Missouri          | 113                  | ND                 | 481            | 115                   | 3,395            | 2,571              | 25,733            | 32,408           |
| Montana           | 1,291                | 914                | ND             | 95                    | 410              | 721                | 4,824             | 8,255            |
| Nebraska          | 241                  | ND                 | ND             | 45                    | 1,563            | 424                | 9,281             | 11,554           |
| Nevada            | 139                  | ND                 | 141            | ND                    | ND               | 476                | 8,475             | 9,231            |
| New Hampshire     | 49                   | ND                 | ND             | ND                    | 157              | 2,618              | 5,516             | 8,340            |
| New Jersey        | 419                  | 2,004              | 1,310          | 152                   | 4,308            | 7,332              | 14,096            | 29,621           |
| New Mexico        | 10,571               | ND                 | ND             | 67                    | 1,338            | 1,959              | 7,634             | 21,569           |
| New York          | 812                  | 51                 | 718            | ND                    | 4,188            | 16,167             | 29,747            | 51,683           |
| North Carolina    | 667                  | ND                 | 231            | 101                   | 2,212            | 7,575              | 28,263            | 39,049           |
| North Dakota      | 1,763                | ND                 | ND             | 74                    | 1,119            | 92                 | 3,966             | 7,014            |
| Ohio              | 4,580                | 1,389              | 708            | 571                   | 4,119            | 4,196              | 36,569            | 52,132           |
| Oklahoma          | 26,993               | 1,556              | 449            | 662                   | 5,287            | 3,719              | 13,419            | 52,085           |
| Oregon            | 41                   | ND                 | ND             | ND                    | 1,420            | 1,637              | 11,168            | 14,266           |
| Pennsylvania      | 3,798                | 2,418              | 2,451          | ND                    | 5,304            | 13,127             | 35,024            | 62,122           |
| Rhode Island      | ND                   | ND                 | ND             | ND                    | 381              | 1,252              | 2,226             | 3,859            |
| South Carolina    | 214                  | ND                 | 128            | ND                    | 948              | 2,738              | 17,590            | 21,618           |
| South Dakota      | 37                   | ND                 | ND             | ND                    | 230              | 1,358              | 5,824             | 7,449            |
| Tennessee         | 547                  | 531                | 98             | 6                     | 2,373            | 4,250              | 23,726            | 31,531           |
| Texas             | 177,577              | 20,890             | 595            | 3,293                 | 18,107           | 7,665              | 67,860            | 295,987          |
| Utah              | 2,656                | 731                | 18             | 37                    | 1,209            | 495                | 9,642             | 14,788           |
| Vermont           | ND                   | ND                 | ND             | ND                    | ND               | 1,554              | 3,769             | 5,323            |
| Virginia          | 926                  | 230                | 91             | 64                    | 2,037            | 3,722              | 34,247            | 41,317           |
| Washington        | 151                  | 2,116              | 88             | ND                    | 1,524            | 1,803              | 14,820            | 20,502           |
| West Virginia     | 2,662                | 310                | 611            | ND                    | 2,608            | 604                | 9,115             | 15,910           |
| Wisconsin         | 80                   | ND                 | ND             | ND                    | 992              | 2,501              | 23,685            | 27,258           |
| Wyoming           | 10,614               | 842                | ND             | 214                   | 527              | 431                | 4,207             | 16,835           |
| <b>Total US</b>   | <b>306,041</b>       | <b>71,437</b>      | <b>15,900</b>  | <b>12,466</b>         | <b>149,744</b>   | <b>206,033</b>     | <b>880,179</b>    | <b>1,641,800</b> |

Source: State Agencies & Bureau of Labor Statistics Note: Reported data only. N.A.I.C. codes used. ND - Non-Disclosure or not available = not included in Total.

Note: State data differ from the Bureau of Labor Statistics national averages (Total US) due to confidentiality rules

# Reference Information

## Data Sources & Notes

The editorial staff gratefully acknowledges the following sources of data that appear on the individual state pages.

|   |   |
|---|---|
| State maps.....   | Cartesia Software,<br>IPAA Surveys  |
| First and peak production years.....                        | AIME Statistical Yearbook,<br>World Oil, Oil & Gas<br>Journal, & World Petroleum<br>Report (Note: Marketed pro-<br>duction) |
| Deepest wells drilled.....                                  | World Oil & State Data  |
| Cumulative wells drilled.....                               | Oil & Gas Journal, World<br>Petroleum Statistical<br>Yearbook, American<br>Petroleum Institute (API), &<br>State Data       |
| Cumulative wellhead value.....                              | IPAA  |
| Cumulative production (marketed)<br>and reserves (dry)..... | API, American Gas<br>Association, IPAA, and<br>Energy Information<br>Administration (EIA)                                   |
| Wellhead prices and value.....                              | EIA, IPAA, State Data   |
| End-use natural gas prices.....                             | EIA   |
| Severance and production taxes.....                         | IPAA survey   |
| Wells and footage drilled.....                              | API, IPAA, State Data   |
| Rotary drilling rigs.....                                   | Baker Hughes, Inc.  |
| Producing wells.....  | World Oil and State Data  |
| Oil and gas production.....                                 | EIA and Minerals<br>Management Service  |
| Number of employees.....                                    | IPAA survey & BLS   |
| Petroleum reserve position.....                             | EIA   |
| Lease and Royalties.....                                    | Minerals Management<br>Service  |
| Stripper wells.....   | Interstate Oil & Gas<br>Compact Commission  |
| Federal Leases and Royalties.....                           | Department of Interior<br>and Minerals<br>Management Service  |

## Abbreviations

|                                    |                        |
|------------------------------------|------------------------|
| bbl. = barrel                      | NA= Data Not Available |
| b/d = barrels per day              | ND= Not Disclosable    |
| Mcf = thousand cubic feet          |                        |
| MMcf = million cubic feet          |                        |
| Bcf = billion cubic feet           |                        |
| Tcf = trillion cubic feet          |                        |
| BT= British Thermal Unit           |                        |
| NGL = Natural Gas Liquid           |                        |
| LPG = Liquefied Petroleum<br>Gases |                        |

## Energy Conversions

|  |   |
|--|---|
| <b>One barrel of crude oil:</b>          | <b>One metric ton of crude oil:</b>     |
| = 42 gallons                             | = 2,204 pounds                          |
| = 5,800,000 BTU of energy                | = 7.46 barrels of domestic<br>crude oil |
| = 5,614 cubic feet of natural<br>gas     | = 6.99 barrels of foreign crude<br>oil  |
| = 0.22 ton of bituminous coal            |   |
| <b>One cubic foot of natural gas:</b>    | <b>One cubic meter of natural gas:</b>  |
| = 7.48 gallons                           | = 35.314 cubic feet                     |
| = 1,030 BTU of energy                    |   |
| = 0.000178 barrel of crude oil           |   |
| = 0.00004 ton of bituminous<br>coal      |   |
| <b>One short ton of bituminous coal:</b> |   |
| = 2,000 pounds                           |   |
| = 26,200,000 BTU of energy               |   |
| = 4.52 barrels of crude oil              |   |
| = 25,314 cubic feet of natural<br>gas    |   |

# Glossary

**Abandonments** - The number of producing wells that have been abandoned during a given time period.

**Artificial Lifting** - Any method used to stimulate the production of crude oil and/or natural gas in excess of the flow resulting under natural reservoir pressures, e.g. pumping, secondary or tertiary recovery.

**Associated Gas** - The combined volume of natural gas which occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved).

**Barrel** - Standard volumetric measure for petroleum, equivalent to 42 U.S. gallons.

**Condensate** - A mixture of liquid hydrocarbons at atmospheric conditions which occur in a gaseous state underground, sometimes known as distillate or natural gasoline.

**Crude Oil** - Hydrocarbons in liquid unprocessed form that vary significantly in properties such as API gravity, viscosity, and sulfur content.

**Development Well** - A crude oil, natural gas or dry hole drilled within an area known to be productive.

**Distillate Fuel Oil** - One of the petroleum fractions produced by conventional distillate, includes fuel oil and diesel fuel.

**Dry Hole** - A completed well which is not productive of crude oil and/or natural gas in commercial quantities.

**Dry Natural Gas** - Natural gas that does not contain dissolved liquid hydrocarbons.

**Exploratory Well** - A crude oil, natural gas, or dry hole drilled to discover a petroleum formation or its limits.

**Gas Well** - An exploratory or development well completed for the production of natural gas.

**Liquefied Petroleum Gas (LPG)** - Butane, propane, and other light products separated from natural gasoline or crude oil by fractionation or other processes. At atmospheric pressure, it reverts to the gaseous state.

**Middle Distillates** - A general classification of petroleum products that includes distillate fuel oil and kerosene.

**Natural Gas** - Hydrocarbons in gaseous form or mixed with crude oil.

**Natural Gas Liquids (NGL)** - Hydrocarbons found with natural gas that are recoverable by condensation or absorption, such as LPG or natural gasoline.

**Non-associated Gas** - Natural gas not in contact with signifi-

cant quantities of crude oil in a reservoir.

**Oil Well** - An exploratory or development well completed for the production of crude oil.

**Petroleum** - Includes in its broadest sense the entire spectrum of hydrocarbons - gaseous, liquid, and solid.

**Pipeline** - A line of tubes with pumping machinery that transports crude oil or natural gas from the wellhead to the storage tank or petroleum refinery.

**Proved Reserves** - The estimated quantity of crude oil, natural gas, or NGL that is shown with reasonable certainty to be recoverable from known fields under existing economic and operating conditions.

**Residual Fuel Oil** - The heavy, high-viscosity leftover from the refining process, used mainly for industrial purposes.

**Rotary Drilling Rig** - A derrick equipped with modern rotary equipment capable of drilling a bore hole with a bit attached to a rotating column of steel pipe, in contrast to a cable tool rig which drills on the percussion principle.

**Seismic Exploration Activity** - The search for geological structures which are potential petroleum-bearing formations by interpreting data from seismic shocks.

**Severance Tax** - A tax levied by some states on each barrel of crude oil or each thousand cubic feet of natural gas produced.

**Strategic Petroleum Reserve** - Crude oil inventories held in government underground storage for use during periods of supply interruptions.

**Stratigraphic Test** - A hole drilled to gather information about a stratigraphic formation such as the general permeability and porosity of the rocks; includes core tests.

**Stripper Well** - A producing well which pumps or "strips" less than 10 barrels of crude oil or 60 Mcf of natural gas per day.

**Stripper Well Reserves** - The estimated amount of additional crude oil or natural gas which can be recovered by primary means or secondary recovery methods.

**Well** - A hole drilled to find or produce hydrocarbons, or to provide services related to their production.

**Wet Natural Gas** - Volumes of natural gas remaining after removal of lease condensate, and after exclusion of nonhydrocarbon gases where they occur in sufficient quantity to render the gas unmarketable.

**Wildcat Well** - A type of exploratory well drilled in an unproven area where there has been no previous production.



**PTTC benefits the nation by assisting U. S. independent oil and natural gas producers make timely, informed technology decisions**

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## What Is PTTC?

Petroleum Technology Transfer Council (PTTC) is a national not-for-profit organization directed by industry representatives, primarily independent producers. PTTC was established in 1994 to disseminate technology ideas that were proven yet not widely accepted across the country to enhance domestic production of oil and natural gas.

## What Does PTTC Do?

For U.S. independent oil and natural gas producers, obtaining access to cost-effective exploration and production (E&P) technologies is an act of survival. With limited technical staffs, independents need field-tested and proven, cost-effective solutions to their E&P problems. PTTC enables independents to make timely, informed technology decisions through targeted connections to potential solutions in its five program lines:

- Drilling and Completion
- Environmental Protection
- Exploration
- Operations and Production
- Reservoir Management

PTTC functions as the "Bridge to Solutions" for independents by helping them identify and clarify problems, by educating them about options for solutions and opportunities, and by connecting them with technology providers. In each of these areas, PTTC disseminates information and makes connections via a network of regional resource centers at universities and state geological surveys with strong oil and gas expertise. (See organizations listed on other side.)

## How Does PTTC Assist Independent Oil And Gas Producers?

Smaller companies and independents play an expanding role, drilling 85% of the wells in the U.S. and producing 65% of the nation's natural gas and 40% of the domestic crude oil. PTTC serves the role of supporting and linking independent producers, technology providers and federally-funded research, development and demonstration efforts. To address the shifting production environment, PTTC's most important products and services include:

- Workshops that provide real-world solutions targeted to specific constraints
- Resource Centers with technical referral assistance to service companies/consultants and demonstrations of exploration and production software
- Website Network linking national and regional websites and other technical resources
- Publications and Information Products including newsletters, technical reports, databases, and case studies
  - National Quarterly Newsletter distributed electronically and in hard-copy form
  - Petroleum Technology Digest "Case Studies" published in World Oil-published monthly
  - Tech Connections published in American Oil and Gas Reporter-published monthly
  - Frequent Email Tech Alerts with Industry, DOE and PTTC Highlights

## How Is PTTC Funded?

The PTTC program is a cost-sharing arrangement with Federal funding through the U.S. Department of Energy, Office of Fossil Energy's National Energy Technology Laboratory. Matching 50:50 cost share is provided by several state governments, universities, state geological surveys and industry. As a tax-exempt corporation under IRS Section 501(c)(3), contributions to PTTC are tax deductible.

# PTTC Regional Resource Centers

## Appalachian Region

Director: Doug Patchen  
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Coordinator: Mark Hoffman, ext. 5446  
[www.karl.nrcce.wvu.edu](http://www.karl.nrcce.wvu.edu)

## Central Gulf Region

Director: Bob Baumann,  
Louisiana State University, 225-578-4400  
Coordinator: Don Goddard, 225-578-4538  
[www.cgrpttc.lsu.edu](http://www.cgrpttc.lsu.edu)

## Eastern Gulf Region

Director: Ernest Mancini  
University of Alabama, 205-348-4319  
Coordinator: Bennett Bearden, 205-348-1880  
<http://egrpttc.geo.ua.edu>

## Midwest Region

Director: David Morse  
Illinois State Geological Survey, 217-244-5527  
Coordinator: Steve Gustison, 217-244-9337  
<http://www.isgs.uiuc.edu/pttc>

## North Midcontinent Region

Director: Rodney Reynolds  
Kansas University Energy Research Center, 785-864-7398  
Coordinator: Dwayne McCune, 785-864-7398  
[www.nmcpttc.org](http://www.nmcpttc.org)

## Rocky Mountain Region

Director: Sandra Mark  
Colorado School of Mines, 303-273-3107  
Coordinator: Michael Ewing, 303-514-4098  
[www.pttcrockies.org](http://www.pttcrockies.org)

## South Midcontinent Region

Director: Charles Mankin  
Oklahoma Geological Survey, 405-325-3031  
Coordinator: Michelle Summers, 405-325-3031  
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## Southwest Region

Director: Robert Lee  
Petroleum Recovery Research Center, 505-835-5408  
Coordinator: Martha Cather, 505-835-5685  
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## Texas Region

Director: Scott Tinker,  
Bureau of Economic Geology, University of Texas at Austin  
512-471-0209  
Coordinator: Sigrid Clift, 512-471-0320  
[www.energyconnect.com/pttc](http://www.energyconnect.com/pttc)

## West Coast Region

Director: Iraj Ershaghi  
University of Southern California, 213-740-0321  
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## PTTC Michigan Satellite Office

Director: Dr. William B. Harrison  
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## PTTC-Texas Permian Basin

Director: Bob Kiker  
Midland, TX, 432-552-3432  
<http://www.energyconnect.com/pttc/pb/>

## PTTC's Regional Workshops

| Year  | No of Workshops | Cumulative No of Workshops | Attendance | Cumulative Attendance | Contacts (no/yr) | Cumulative Contacts (no/yr) |
|-------|-----------------|----------------------------|------------|-----------------------|------------------|-----------------------------|
| FY-95 | 18              | 18                         | 1,117      | 1,117                 |                  |                             |
| FY-96 | 46              | 64                         | 3,801      | 4,918                 |                  |                             |
| FY-97 | 62              | 126                        | 3,176      | 8,094                 | 5,482            | 5,482                       |
| FY-98 | 100             | 226                        | 4,429      | 12,523                | 10,241           | 15,723                      |
| FY-99 | 128             | 354                        | 5,948      | 18,471                | 10,555           | 26,278                      |
| FY-00 | 148             | 502                        | 6,020      | 24,491                | 12,980           | 39,258                      |
| FY-01 | 147             | 649                        | 6,338      | 30,829                | 16,051           | 55,309                      |
| FY-02 | 147             | 796                        | 6,243      | 37,072                | 18,377           | 76,686                      |
| FY-03 | 169             | 965                        | 8,616      | 45,688                | 24,714           | 98,400                      |
| FY-04 | 141             | 1,106                      | 6,451      | 52,139                | 25,205           | 123,605                     |
| FY-05 | 153             | 1,259                      | 8,524      | 60,663                | 29,550           | 153,155                     |

## Regional Resource Centers

