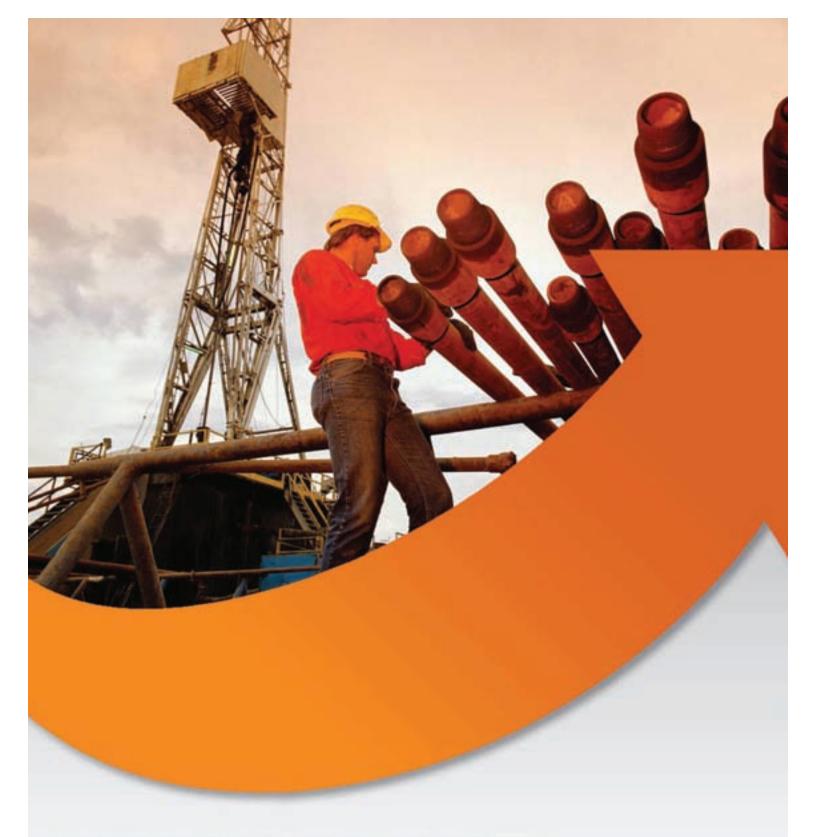
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Image: RAM - Powell floating platform in deep water in the Gulf of Mexico. Photo taken by Larry Lee Photography.

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THE YEAR IN REVIEW: INTRODUCTION TO 2007 O&G IN YOUR STATE

2007: A Pivotal Year in the Unconventional Revolution in Natural Gas

Pete Stark, Ph. D., IHS

Introduction:

Conventional wisdom at the beginning of 2007 opined that U.S. gas supplies could not be sustained by drilling increasing numbers of smaller volume - so called "unconventional" - tight sand and CBM gas wells. Liquefied natural gas (LNG) imports were championed as the solution to meet future U.S. natural gas demand. There were substantial international stranded gas resources and operators who were eager to convert these resources to LNG as a means to tap new markets. Investments poured into the development of large gas liquefaction trains in gas rich countries like Qatar, Nigeria, Algeria and Trinidad & Tobago and also into regasification terminals to supply North America with as much as 9 Bcf/d of LNG by 2009. But another quiet revolution was under way.

Adventurous U.S. operators launched pilot projects to determine if horizontal wells with staged hydraulic fracs that were successful in the Barnett shale could be applied to other gas rich shale source rocks. Successful tests were announced throughout the year in the Fayetteville shale in Arkansas, the Woodford shale in southeast Oklahoma, the Marcellus shale in Pennsylvania and exploration efforts were launched to test the potential of other gas rich shales throughout the U.S. and Canada. The results were dramatic. The average U.S. gas well initial potential test rate broke a 10 year decline and increased by a whopping 21% to 793 Mcf/d. Consequently, U.S. daily average gas well gas production grew by almost 4% even though the number of gas wells placed on-line decreased. This signaled the initial transformation of U.S. gas supplies to the unconventional shale gas era.

Uncertainties about the security of oil supplies and prices persisted throughout 2007. West Texas Intermediate (WTI) crude averaged \$51.26 per barrel during January 2007, but OPEC's 1.2 MMbop/d production cut of November 2006 finally took hold and oil prices reached an all-time high of \$99.16 per barrel on November 2, 2007. Correspondingly, U.S. crude oil stocks, which were well above the prior 5-year high volumes through the first half of the year, gradually decreased to historic average levels by end of the year. Gasoline stocks, on the other hand, were at or below historic 5-year lows for much of the year and helped to propel gasoline prices to near record highs while averaging \$2.81 per gallon for the year. Diesel fuel prices also surged and averaged \$2.88 per gallon for the year.

These elevated prices for transportation fuels stimulated public outrage with charges of price gouging and threats to impose new windfall taxes commanded attention in the headlines. Speculation about oil prices, driven by fears that global demand would outstrip supplies, also was blamed for the substantial increase in price at a time when U.S. oil stocks, at least, were at or above normal levels.

Demand, Supplies and Prices

Unseasonably warm temperatures, which persisted through early January 2007, reduced demand for heating fuels and eased both oil and gas prices to start the year. With the return to normal weather, though, oil and gas demand and prices recovered. For the year, U.S. oil consumption was down slightly at 20.68 MMb/d but world demand increased by 1.2% and oil prices increased by 60% from \$55.21 at the end of January to \$88.31 in December.

During 2007, natural gas demand responded to moderate prices and surged by 6.2% (+3.73 Bcf/d) to 63.14 Bcf/d. Gas pipeline imports contributed 0.7 Bcf/d (+7%) and LNG imports contributed 0.5 Bcf/d (+32%) to the increase. Even so, natural gas price volatility diminished during the year and natural gas averaged \$7.04 per Mcf - up less than 2% from 2006. Many analysts felt that continued growth in LNG imports would be required to meet future U.S. gas demand. Even at the end of 2007 the potential of the emerging shale gas revolution was not fully appreciated.

E&P Activity

U.S. exploration and production activity continued to expand as operators sought to test new unconventional gas play ideas and to expand oil production in response to the surge in oil prices. Seismic crew activity increased by 19% to average 70 crews and the Baker Hughes rig count increased by 7.2% to average 1,766.7 rigs during 2007. But total U.S. well completions were essentially flat with 2006, up only 43 wells to 48,216 completions. Oil directed drilling added 21 rigs to average 297 rigs while gas directed drilling added 94 rigs to average 1,466 rigs during 2007. In response to surging oil prices, the share of oil directed drilling increased from 15.5% to 19.5% of total rigs during the year. The Bakken shale oil play in the Williston Basin was the most closely watched emerging oil play. This play contributed most of North Dakota's increase of 93 oil completions (+24%) during 2007.

The 6.8% increase in gas directed drilling only translated to an overall 1.7% increase in U.S. gas well completions but the reported 30,866 gas wells established a new all-time record. Alabama, Arkansas, California, Colorado, Illinois, Indiana, Nebraska, New York, Ohio, Texas and Virginia reported the most significant increases in gas well completions. Coalbed methane (CBM) drilling, on the other hand, dropped by 14%. Regulatory issues were cited as the cause for a 40% decline (1,241 wells) in Powder River Basin CBM wells. Activity in the maturing CBM play in the McAlester Coal in Southeast Oklahoma also declined, off 260 wells (45%) from 2006. These decreases were partly offset by increased CBM well completions in Virginia, the San Juan and Las Animas Basins, the Cherokee coals in southeastern Kansas and in the Black Warrior Basin.

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A surge in horizontal drilling signaled the increasing importance of this technology to tap shale reservoirs. An average of 443 rigs – up 158 rigs or 55% from 2006 - were targeted to horizontal bore holes during 2007. Moreover, for the first time, over 25% of U.S. rigs were active on horizontal bore holes by the end of the year. This increased horizontal rig activity translated to an increase of 1,577 (+36%) horizontal wells to a total of 5,972 wells. Not surprisingly, the largest increases in horizontal were associated with established and emerging shale plays. The Fayetteville shale in Arkansas (+ 336 wells, + 314%), the Marcellus shale in Pennsylvania (+ 33 wells, + 550%), the Barnett shale in TexasX (+ 1,037 wells, + 47%) and the Bakken shale in North Dakota (+ 77 wells, 23%) are examples.

Exploratory Drilling

In harmony with seismic crew activity, U.S. wildcat drilling also increased by 19% during 2007. The 5,206 wildcat wells resulted in 971 oil successes and 2,871 gas successes for an astounding 74% success rate. This level of success is an artifact of applying the traditional Lahee wildcat well definition whereby a well drilled more than one mile from established production can receive a wildcat well designation. During 2007 most of the so-called wildcat wells were drilled to evaluate the extent of unconventional gas and oil resource plays where hydrocarbons are distributed throughout reservoirs with very large aerial extent. A new well classification system which recognizes the unique characteristics of the resource plays is warranted, but until an updated wildcat well definition is introduced and accepted an asterisk possibly should be appended to wildcat wells within established resource play boundaries.

During 2007 the number of wildcat oil successes increased by almost 21%. Significant increases were recorded in North Dakota's Bakken play, in a few traditional oil-rich parts of Kansas and Oklahoma and in Appalachian region oil trends extending from New York, Pennsylvania and Ohio into Kentucky. Wildcat gas successes increased by 27% as operators ramped up their evaluations of multiple widespread gas resource plays. Arkansas, with the expanding Fayetteville shale play and Appalachian basin states with expanding Devonian – Marcellus shale exploration - led the increases in wildcat gas successes. Gas exploration success rates declined, though, in several large gas producing states like New Mexico, Oklahoma, Texas and Wyoming with important conventional gas plays.

Onshore U.S. exploration during 2007 focused on the growing potential of shale plays. For oil it was the expanding Bakken shale play in the Parshall and Sanish field trend in North Dakota. For gas, continued success in the Barnett shale in the Ft. Worth and Strawn basins, Woodford shale in Oklahoma and Fayette-ville shale in Arkansas highlighted exploration activity in established and expanding shale plays. New successes also highlighted the emerging potential of the Devonian / Marcellus shales in the giant Appalachian basin in New York, Pennsylvania and West Virginia. Operators also expanded efforts to define the

potential of new plays in the Penn shale of the Palo Duro basin, the Connesauga shale in the southern Appalachians, Barnett and Woodford shales or similar shales in the Delaware and Marfa basins and the Gothic shale in the southwest Colorado portion of the Paradox basin.

Frontier U.S. exploration yielded the largest 2007 conventional oil discoveries. In the northwest part of the NPR-A reserve on Alaska's North Slope, FEX L.P., a Talisman subsidiary, recorded the two largest onshore oil discoveries at its estimated 450 MMbo Aklaqyaaq and 150 MMbo Aklaq - 6 finds. Shell recorded two deepwater Gulf of Mexico successes at its Vicksburg prospect, with estimated 220 MMboe, and its Julia prospect, with estimated 150 MMboe.

Production Trends - Oil

U.S. oil production continued to decline during 2007, dropping 1% or 17.2 MMbo. The Federal Offshore contributed the largest loss, - 9.7 MMbo, followed by lower production in Alaska, California, Oklahoma and Texas. The decline in the Offshore Gulf of Mexico could be short-lived as the largest decrease was reported for ultra-deep water (water depth greater than 5,000 ft.) where several large discoveries will be brought on-stream over the next few years. North Dakota, driven by the Bakken shale play, led the gainers, adding almost 5.5 MMbo. Others boosting their oil production included Louisiana, Mississippi and Kansas.

Oil production from marginal wells, those producing 15 bop/d or less, continued to contribute an important share of U.S. oil production. Marginal oil production during 2007 was down only 131,800 bo from 2006 and the 346,305 marginal wells (93% of the total) contributed 22% of overall U.S. oil production. Marginal well average daily production increased to 2.85 bop/d - the largest average in the past decade.

Heavy oil, 20.9 degree or less API gravity in this report, also is an important component of U.S. oil production. Oil gravity is only reported for eight states (Texas not included) plus the Federal Offshore so the numbers in this report are not complete. The nine entities that are reported, nevertheless, contributed 442.37 MMbo during 2007 or 27% of total U.S. oil production from 61,198 wells. Heavy oil recovery from thermal recovery projects in California is the most important onshore source of heavy oil. In California, 46,022 wells produced 210.1 MMbo during 2007. Various offshore fields added 194.7 MMbo of heavy oil from only 1,834 wells. Daily average production of 290 bop/d from offshore wells compares to 12.5 bop/d from onshore California.

Production trends - Natural Gas

Total U.S. gas production increased for the second consecutive year to 20.013 Tcf, a 3.1% gain in spite of a 41 Bcf drop in casinghead gas production. Gas well gas production gains were widespread with 12 states reporting more than 1 Bcf gains while eight states reported production losses of 1 Bcf or more.

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Texas led the gainers with an increase of 567 Bcf – most from the Barnett shale in the Ft. Worth basin. Wyoming, with active tight sand developments at the Jonah field and Pinedale an ticline, added 143 Bcf.

The Fayetteville shale play helped to boost Arkansas production by 70 Bcf and expanding tight sand developments in the Piceance basin helped to boost Colorado production by 56 Bcf. Mississippi, Oklahoma, Utah and West Virginia also added more than 25 Bcf in new gas production. These gains were off-set in part by decreases in gas well gas production in the Federal Offshore (-81 Bcf), New Mexico (-58 bcf) and Alabama (-26 bcf). (Note: Gas well gas and casinghead or associated gas are reported separately and are combined to yield total gas production.) Technology played a critical role in enabling the breakthrough in recovering gas from shales. Lessons learned in the Barnett shale, especially the ability to boost initial potential flow rates and recoveries from horizontal bore holes with staged slick water fracs, were applied with even better results in the new emerging shale plays. Operators in the Woodford shale and Fayetteville shale plays found they could achieve substantial gains in well performance by increasing the number of frac stages and by increasing the length of the horizontal laterals in the shale reservoirs. Continuous process improvements allowed operators to increase their shale production at lower costs per Mcf. Essentially all of these innovations were driven by independent operators.

Gas production from marginal wells, those producing 90 Mcf/d or less, also contributed an important share of U.S. gas production. Marginal gas production during 2007 is estimated to have increased by about 50 Bcf to about 2,647 Bcf. Similar to the role of marginal oil, the estimated 278,000 marginal gas wells (77% of the total) contributed an important 14% share of U.S. gas well gas production.

Coalbed methane production increased for the eighth consecutive year even though the average production per well decreased from 262 Mcf/d during 2000 to only 107 Mcf/d per well during 2007. This pattern reflects the expansion of CBM production to new shallow reservoirs in the Powder River and Raton basins and the Cherokee coals on the Chatauqua Platform in southeastern Kansas. The number of producing CBM wells more than doubled from 14,460 wells in 2000 to 44,613 wells in 2007. With \$6 per Mcf gas, operators could afford to drill and produce thousands of low cost, low volume CBM wells. During 2007, CBM wells generated an important 9.5% of U.S. gas well gas production. Moreover, the growing importance of unconventional gas was indicated by the fact that total unconventional gas production capacity was estimated to have reached 223 Bcf/d or almost 446% of U.S. gas production by the end of 2007.

Managing Above Ground Considerations

The shift to unconventional gas resources reshaped several aspects of the E&P business. Nowhere was this more evident than in the Rockies region where the large numberss of oil and gas leases on Federal

lands were subject to multiple layers of regulations. Moreover, the substantial increases in drilling activity to increase production from CBM and tight sands heightened tensions among various stakeholders including community and environmental interests. These tensions led to conflicts and legal injunctions which slowed developments in several key gas producing areas.

To address these conflicts, operators forged innovative solutions that could become standard industry practices. At Jonah field in Wyoming, leading operators leveraged organized collaborative stakeholder groups to identify and address broad community and environmental concerns. Operators studied impacts of field development activities on wildlife migration and habitat and also established baselines for air and water pollution with resulting changes in rules and practices to minimize or mitigate damages.

Operators also introduced innovative operating practices and equipment to minimize environmental impacts while improving efficiencies and reducing costs. Drilling from pads and laying wooden pallets on roads and drill sites reduced surface damage. Operators also initiated early restoration of surface disturbances before development activities were completed. Delivering water by pipelines rather than by trucks and using natural gas powered vehicles and rigs reduced traffic hazards and air pollution while reducing costs. Produced water also was recycled as a means to reduce water usage. New generation drilling rigs on wheels and hydraulic skids were introduced to minimize time and cost to move rigs between wells on pads. Some operators drilled and completed all wells on a pad in stages - like setting surface casing in all wells before moving to the next stage – as a means to improve efficiencies and reduce costs. Others introduced central frac hubs which allowed them to service wells on multiple pads from a common site.

As the benefits of these innovations became apparent some operators began to apply many of these practices to expanding gas resource plays in other regions. In view of the continuing increase in public environmental awareness it is important for the oil and gas industry to realize that such practices may soon become the rule.

Concluding Comment:

Three key factors were critical to stamping 2007 as a pivotal year in the unconventional gas revolution. First was the reversal in a decade-long decrease in the average U.S. peak well productivity. Second: Gas producers demonstrated they had the technologies to grow U.S gas production capacity from unconventional reservoirs — even shales - without drilling an increasing number of gas wells. Third: U.S. operators also demonstrated they could adopt collaborative practices and innovative operating practices to deal with increasing "above ground" issues such as regulations, heightened environmental awareness and local community issues. These factors will be critical in shaping the U.S. energy future.

New Content for Our 2008-2009 Edition

Together with IHS the IPAA Statistics Department has continued to make changes to the data in this annual publication. Since the 2007-2008 Edition that was published in February of this year, there have been several notable additions including ten year charts of key industry data, petroleum and natural gas production broken out by congressional district, top ten producing county data for each state.

IPAA's mission in Washington, D.C. has become increasingly important given this year's developments in the area of energy legislation and regulation. Congressional and county data will help illustrate where our production is located in addition to where upstream jobs are concentrated. Members of Congress, educators and the media can see exactly where this country's oil and natural gas is being produced through the updated information on individual counties and Congressional Districts. In addition, ten-year charts have been added to show key trends in areas such as industry employment, marginal production, cost of drilling and federal and state revenues generated from the oil and gas industry. This publication seeks to provide both a yearly snapshot in addition to more historical data so key industry developments can be tracked over time. State trivia has also been updated to add some historical flavor to each state's production landscape and illustrate the continued importance of each state's legacy fields and the role they continue to provide in today's production matrix.

Over two-thirds of our country's states produce oil and/or natural gas and new areas such as the Appalachian Marcellus trend are joining a resurgence of activity in areas such in the Bakken and in Kern County, California. It is also critical for the industry to show where oil and natural gas is used across this country as these fuels together provide almost two-thirds of our country's total energy mix and will continue to factor largely in the future for both this country and globally.

A special thanks to Dr. Phillip "Pete" Stark, Ashley Bailey and Laura Standley at IHS for all of their work in making this an improved product over the past three years. With their efforts the publication of the OPI has officially caught up with the data available and will now be on a regular annual schedule with future editions being released every fall.

Please let us know if you have specific ideas pertaining to qualitative improvements for future editions. You can send your comments to Fred Lawrence at IPAA (flawrence@ipaa.org). Thank you for your continued support of one of the industry's most informative publications.

METHODOLOGY

- IHS uses multiple sources of data such as test files (Texas and Louisiana test information is used to allocate production volumes on a well completion level), injection files and plugging reports that is integrated with basic production volume data that is submitted by individual states. As a result production totals may differ from the Energy Information Administration data.
- IHS production data used on state pages includes peak production, total (dry) production, average production, average output per well, coalbed methane, heavy oil and marginal wells. IHS data used for summary production data. EIA data used on state pages for natural gas marketed production.
- EIA production data is used for determining wellhead value of production, cumulative crude oil wellhead value, state production rankings, and natural gas marketed production. State reserve data is from EIA. All price data comes from EIA or states.
- All Federal Offshore statistics include only those wells in Federal waters. All state well statistics include those offshore wells for each state. Federal Offshore statistics include only those wells in Federal waters.

- Deepest well statistics are based on total depth recorded from state completion reports. The only exceptions are minor occurrences where projected depth from permits have been used as a proxy for Deepest well statistics. Cumulative number of total wells drilled data comes from IHS.
- Well statistics for oil, gas and dry wells are all classes that were drilled with the intent to find hydrocarbons. Historical well counts do not include any miscellaneous wells, i.e., injection, storage, etc.
- Drilled footage is the actual drilled footage as reported. For sidetracks it is the footage from the whipstock or kickoff point to total depth. For wells deepened it is the footage from the original total depth to the new total depth.
- Marginal wells are defined as oil wells producing 15 or less barrels of oil and 90 or less thousand cubic feet of gas per day (previous editions used stripper wells producing less than 10 bbls of oil and 60 Mcf of gas per day).

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Division of Oil & Gas 550 West 7th Ave., Suite 800 Anchorage, AK 99501-3560 (907) 269-8800 http://www.dog.dnr.state.ak.us/oil/index.

Alaska Oil & Gas Conservation Commission

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New York State Geological Survey

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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

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.netl.doe.gov/technologies/ oil-gas

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. Department of Energy

Office of Scientific and Technical Information P.O. Box 62 Oak Ridge,TN 37831 http://www.osti.gov/

U.S. Dept. of the Interior - MMS

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

U.S. Dept. of the Interior

Bureau of Land Management 1849 C Street NW, Rm. 5665 Washington DC 20240 Phone: 202-208-3801 Fax: 202-208-5242U.S. http://www.blm.gov

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/

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American Exploration & Production Council

1350 Eye St., NW, Suite 510 Washington DC 20005 (202) 652-2359 http://www.axpc.us/

Arkansas Independent Producers & Royalty Owners

1401 W. Capitol Ave., Suite 440 Little Rock, AR 72201 (501) 975-0565 (501) 975-0566 Fax http://www.aipro.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

1112 I 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

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 http://www.wkoga.org

FL Independent Petroleum Producers Assoc.

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 NY

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 http://www.iogapa.org

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 http://www.inoga.org

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 Oil & Gas Association

P.O. Box 4069 Baton Rouge, LA 70821-4069 (800) 443-1433 (225) 388-9561 Fax http://www.loga.la

Louisiana Landowners Association

P.O. Box 44121 Baton Rouge, LA 70804-4121 (504) 927-5619 (504) 928-7339 Fax http://www.louisiana2000.com/LLA/

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 http://www.nswa.us

New Mexico Oil & Gas Association

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New York State Oil Producers Association

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Northern Alliance of Independent Producers

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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

COOPERATING OIL & GAS ASSOCIATIONS

Oklahoma Independent Petroleum Association

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Panhandle Producers & Royalty Owners Assoc.

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Pennsylvania Oil & Gas Association

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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

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Petroleum Technology Transfer Council

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Society of Indep. Professional Earth Scientists

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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 www.vaoilandgas.com

Wyoming Independent Producers Association

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

Networking 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 http://www.iprb.com

International Association of Drilling Contractors

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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 of OK

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

North Dakota Industrial Commission

Oil and Gas Division 600 East Boulevard Avenue, Dept. 405 Bismark, ND 58505-0840 (701) 328-8020 (701) 328-8022 http://www.oilqas.nd.gov

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

West Virginia Office of Oil & Gas

1356 Hansford St. Charleston, WV 25301 (304) 558-6075 (304) 558-6047 Fax http://www.wvdep.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 http://www.wvonga.com

In 2006, IPAA launched its Education Center in Houston. The Education Center is dedicated to coordinating initiatives in public education and workforce expansion. The center's full-time director (Doris Richardson) is a former educator with over 15 years of public affairs experience both in the petroleum industry and private sector, and is chaired by Halliburton's Galen Cobb. IPAA continues to expand upon its commitment to education outreach through a variety of initiatives and programs including the Academy of Petroleum Exploration & Production Technology.

Since 2007, IPAA Education Center Director, Doris Richardson has established two high school engineering & geosciences academies, plus one global energy management program within the Houston Independent School District (HISD). HISD has committed to a total of five IPAA sponsored academies; with 2 more opening by fall 2010.

For more information, please visit the IPAA Education Center online at: http://www.ipaa.org/education/default.asp

CONTACT INFORMATION FOR PARTICIPATING IPAA HIGH SCHOOL ENERGY MAGNET SCHOOLS:

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Academy of Petroleum E & P Technology -Milby High School

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http://hs.houstonisd.org/milbyhs/

Westside Engineering & Geosciences Academy

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http://hs.houstonisd.org/westsideHS/

Memorial High School

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Western Hills International Baccalaureate **High School**

3600 Boston Avenue Fort Worth, TX 76116 817-560-5600 817-560-5644 Fax

http://schools.fortworthisd.net/education/school

Taft Oil Technology Academy

701 7th Street Taft, CA 93268 661.763.2300 661.763.1445 Fax http://www.taft.k12.ca.us/programs/oil University Energy and Geology Programs (NON AFFILIATED):

Alabama

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Fax: (205) 348-0818 Email: faculty@geo.ua.edu

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University of Arkansas Community College at Morrilton

Petroleum Technology Degree Program-Technical Certificate and A.A.S Jeff Lambert, Petroleum Technology Professor

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Academics.htm

California

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Viterbi School of Engineering-Petroleum

Iraj Ershaghi, Ph.D., P.E., Program Director

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petroleumgeology.shtml

California State University, Bakersfield

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Colorado Mountain College

Process Technology-Petroleum Technology

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Mesa State College

Department of Business-Landman/Energy

Management Concentration

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sbps/busadm/Index.htm

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Colorado Northwestern Community College

Process Technology-Oil and Gas Associates

Degree

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Kansas

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academicprograms/petroleumengineering.html

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ugdegreedirectory.php

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index.html

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index.php

University of Houston

Department of Chemical and Biomolecular Engineering-Petroleum Engineering Dr. Kishore Mohanty, Program Director

Office: (713) 743-4331 Fax: (713) 743-4323 Email: mohanty@uh.edu Website: http://www.chee.uh.edu/

petroleum/

University of Houston-Downtown

Department of Management, Marketing, and Business-Energy Management (Minor) Forrest Aven Jr., Department Chair

Office: (713) 221-8593 Fax: (713) 221-8632 Email: avenf@uhd.edu

Website: http://www.uhd.edu/academic/colleges/business/mmba/energy_min_

index.htm

University of Texas-Austin Kilgore College

Department of Petroleum and Geosystems Engineering-Petroleum Engineering Gary Pope, Department Director and

Professor Office: (512) 471-3235 Fax: (512) 471-9605

Email: gpope@mail.utexas.edu

Website: http://www.pge.utexas.edu/index.

cfm

Kilgore College

Department of Continuing Education-Petroleum Technology Bill Brantly, Course Coordinator Office: (903) 983-8680 Fax: (903) 988-7506

Email: bbrantley@kilgore.edu
Website: http://www.kilgore.edu/petro_tech.

asp

Panola College

Department of Applied Sciences-Petroleum

Technology

Gary Hughes, Division Director Office: (903) 693-1130 Fax: (903) 693-1144

Email: ghughes@panola.edu
Website: http://www.panola.edu/instruction/

srtc/index.html

SITC/IIIGEX.IIIIIII

Midland College

Petroleum Professional Development Center-Various Studies/Certifications

Hoxie Smith, Director Office: (432) 683-2832 Fax: (432) 686-8089 Email: hsmith@midland.edu

Website: http://www.midland.edu/~ppdc/

Del Mar College

Technology Education Department-Process Technology Denise Rector, Assistant Professor

Office: (361) 698-1713 Fax: (361) 698-1868 Email: drector@delmar.edu

Website: http://www.delmar.edu/teched/

process.php

West Virginia

Glenville State College

Department of Land Resources-Landman

Technology

Charles Sypolt, Department Chair

Office: (304) 462-4135 Fax: (304) 462-8709

Email: Charles.Sypolt@glenville.edu Website: http://www.glenville.wvnet.edu/

NRMLandmanTech_BS3.asp

West Virginia University

College of Engineering and Mineral Resources-Petroleum and Natural Gas

Engineering

Sam Ameri, Department Chair and

Professor

Office: (304) 293-7682 Fax: (304) 293-5708

Email: samuel.ameri@mail.wvu.edu Website: http://www.pnge.cemr.wvu.edu/

welcome/

Wyoming

Western Wyoming Community College

Division of Technology and Industry-Oil and

Gas Technology

Paul Johnson, Division Chair Office: (307) 382-1718 Fax: (307) 382-1872

Email: pjohnson@wwcc.wy.edu Website: http://www.wwcc.wy.edu/

academics/oilgastech/

University of Wyoming

Department of Chemical and Petroleum Engineering-Petroleum Engineering H. Gordon Harris, Department Head and

Professor

Office: (307) 766-6558 Fax: (307) 766-5769 Email: harrishg@uwyo.edu Website: http://wwweng.uwyo.edu/

chemical/

Canada

University of Calgary

Haskayne School of Business-Petroleum Land Management Bob Schulz, Program Director

Office: (403) 220-6591 Fax: (403) 282-0095

Email: bob.schulz@haskayne.ucalgary.ca Website: http://haskayne.ucalgary.ca/

undergrad/plma

Additional Energy Education & Employment Resources

Association of Desk and Derrick Clubs

5153 E 51st St., Ste. 107 Tulsa, OK 74135 (918) 622-1749 (918) 622-1675 Fax Email: adotulsa@swbell.net http://www.addc.org

Campbell Creek Science Center Bureau of Land Management (BLM), Alaska

222 W 7th Avenue, #13 Anchorage Alaska 99513 (907)271-5960 Fax: (907)271-3684

http://www.blm.gov/ak/getenergized.html

California Energy Commission "Energy Quest"

1516 9th Street, MS-29 Sacramento, CA 95814 (916) 654-4989 Fax: (916) 653-5590 http://www.energyquest.ca.gov/

BP - California Community Relations "A+ for Energy"

6 Centerpointe Drive La Palma, CA 90623 http://www.aplusforenergy.org/Public/ ApplyNow.aspx/

Western States Petroleum Association (WSPA)

1415 L Street, Suite 600 Sacramento, CA 95814 (916) 498-7750 (916) 444-5745 Fax http://www.wspa.org

Colorado School of Mines "Denver Earth Science Project"

Office of Special Programs & Continuing Education Golden, CO 80401 (303) 273-3621 Fax: (303) 273-3314

http://www.mines.edu/Outreach/Cont_ Ed/desp/desp.html

Northern Montana Independent Oil and Gas Association

P.O. Box 488 Cut Bank, MT 59427 (406) 873-9000 Fax: (406) 873-5207

Environmental Education Council of Ohio

P.O. Box 1004 Lancaster, OH 43130 (740) 653-2649 Fax: (740) 653-6100 http://www.eeco-online.org

The NEED Project

8408 Kao Circle Manassas, VA 20110 (703) 257-1117 http://www.need.org

Ohio Energy Project (OEP)

670 Enterprise Drive, Suite A Lewis Center, OH 43035 (614) 785-1717 Fax: (614) 785-1731 http://www.ohioenergy.org

Ohio Oil & Gas Energy Education Program (OOGEEP)

1718 Columbus Road, S.W. P.O. Box 187 Granville, OH 43023-0535 (740) 587-0444 Fax: (740) 587-0446 http://www.oogeep.org

Oklahoma Commission on Marginally Producing Oil and Gas Wells

3535 Northwest 58th Street, Suite 870 Oklahoma City, OK 73112 (405) 604-0460 or (800) 390-0460 Fax: (405) 604-0461 http://www.marginalwells.com

Oklahoma Energy Resources Board (OERB)

3555 N.W. 58th, Suite 430 Oklahoma City, OK 73112 (405) 942-5323 or (800) 664-1301 Fax: (405) 942-3435 http://www.oerb.com

A+ for Energy (Texas)

BP America Inc. 3401 Palmer Highway, Room 445D Texas City, TX 77590 http://www.aplusforenergy.org/Texas

Offshore Energy Center (OEC)

200 North Dairy Ashford, Suite 6220 Houston, TX 77079 (281) 679-8040 Fax: (281) 544-2441 http://www.oceanstaroec.com

Wisconsin K-12 Energy Education Program (KEEP)

403 LRC, UWSP Stevens Point, WI 54481 (715) 346-4770 Fax: (715) 346.4698 http://www.uwsp.edu/cnr/wcee/keep/ index.htm

Federal Energy Regulatory Commission: A Students' Corner

http://www.ferc.gov/students/index.htm

Center for Energy Studies

Louisiana State University, Energy, Coast and Environment Building, Nicholson Drive Extension, Baton Rouge, LA 70803 (225) 578-4400 http://www.enrg.lsu.edu/

Sarkeys Energy Center, University of Oklahoma

100 East Boyd, Room 510 Norman, OK 73019 (405) 325-3821 http://www.sec.ou.edu/index.php

East Texas Historical Association

http://www.easttexashistorical.org/

Wyoming State Historical Society

PMB #184 1740H Dell Range Blvd. Cheyenne, WY 82009 http://wyshs.org/index.html

Energy Kids

Energy Information Administration http://tonto.eia.doe.gov/kids/

U.S. Dept of Energy - For Consumers

http://www.energy.gov/forconsumers. htm

U.S. Dept of Energy - for Students and Kids

http://www.energy.gov/ forstudentsandkids.htm

U.S. Dept of Energy - for Researchers

http://www.energy.gov/forresearchers.

U.S. Dept of Energy - for Employees

http://www.energy.gov/for employees. htm

Young Professionals in Energy Chapters

Young Professionals in Energy Chapters Founded in 2005, YPE is a global network of young professionals who seek to engage with peers in the energy industry. www.ypenergy.org

Austin

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The American Oil & Gas Historical Society (AOGHS) believes the fascinating history of the nation's petroleum industry offers a vital context for teaching today's young people. AOGHS, a 501(c)-3 nonprofit organization, is dedicated to preserving the history of U.S. exploration and production by providing advocacy for organizations that preserve that history through exhibition, material preservation – and especially educational programming. AOGHS publishes a quarterly newsletter, the *Petroleum Age*, and hosts an annual Energy Education Conference & Field Trip. The conference brings together education program practitioners – those who teach the teachers. Become an AOGHS member and help us promote state and national energy education programs. To support this effort, please copy and mail this form with your contribution to AOGHS, 1201 15th St., NW, Suite 300, Washington, DC 20005, or fax it to (202) 857-4799. Questions? Call Bruce Wells, Executive Director at (202) 857-4785.

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OIL AND GAS MUSEUMS

Oil and Gas Museums

Arkansas Museum of Natural Resources (870) 863-6113

http://www.amnr.org/

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/

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

(303) 322-7009

http://www.dmns.org/main/en/

Illinois Oilfield Museum & Resource Center

http://www.theonlyoblong.com/oil_field/ oblong oilfield.html

Museum of Science & Industry - IL

Chicago -IL

(773) 684-1414

http://www.msichicago.org/index.html

Kansas Oil Museum and Hall of Fame

(316) 321-9333

http://www.kansasoilmuseum.org/

Oil Patch Museum - KS

(785) 483-3637

Louisiana State Oil and Gas Museum

(318) 995-6845

http://www.sos.louisiana.gov/tabid/242/default. aspx

International Petroleum Museum & Exposition - LA

(985) 384-3744

http://www.rigmuseum.com/

Pioneer Oil Museum - NY

(585) 373-6035

http://www.pioneer-oil-museum.

com/about-us.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://www1.itlnet.net/web/route66/page4.

Bartlesville Area History Museum - OK

(918) 337-5336

http://www.bartlesvillehistory.com/

Healdton Oil Museum-OK

(405) 229-0317

http://www.healdtonok.org/pages. php?section=oil_museum

Oklahoma Historical Society

(405) 521-2491

http://www.okhistory.org/

Greater Seminole Area Oil & Historical Museum - OK

(405) 382-1500

http://www.seminoleoklahoma.com/ museum/

Drake Well Museum - PA

(814) 827-2797

http://www.drakewell.org

The Oil Heritage Region - PA

(800) 483-6264, Ext. 18

http://www.oilregion.org/

Penn-Brad Oil Museum - PA

(814) 368-5574

http://pennbradoilmuseum.com/

Petroleum History Institute - PA

http://www.petroleumhistory.org/

East Texas Oil Museum - TX

(903) 983-8295

http://www.easttexasoilmuseum.com/index.

Houston Museum of Natural Science

(713) 639-4629

http://www.hmns.org/Index.asp

Panhandle-Plains Historical Museum - TX

(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.

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

Choctaw County Historical Museum - AL http://www.ohwy.com/al/c/choccohm.htm

Hathaway Ranch and Oil Museum - CA (562) 777-3444

http://www.hathaworld.com/hrm/index.html

Santa Barbara Maritime Museum - CA

(805) 962-8404

http://www.sbmm.org/index.php

Wabash County Museum - IL

(618) 262-8774

http://www.museum.wabash.il.us/

Wood River Refinery History Museum - IL

(618) 255-3718

http://www.wrrhm.org/index.htm

Red Crown Mini-Museum - IN

http://www.oldgas.com/info/redcrown.htm

Trump's Texaco Museum - IN

http://www.southernin.com/Pages/archives/ april 00/ henry county.html

Butler County Historical Center & Kansas Oil Museum

(316) 321-9333

http://kansasoilmuseum.org/index.cfm

Hill City Oil Museum - KS

(785) 421-2854

http://www.geocities.com/RainForest/ Vines/5320/oil .html

Independence Historical Museum - KS

(620) 331-3515

http://www.comgen.com/~museum/

Norman No. 1 Museum - KS

http://www.neodygrads.com/pages/ museum/norman.html

Stevens County Gas & Historical Museum - KS

http://skyways.lib.ks.us/towns/Hugoton/ museum.html

Henry Ford Museum & Benson Ford Research Center - MI

(313) 982-6070

http://www.hfmgv.org/museum/default.asp

Farmington Museum - NM

(505) 599-1174

http://www.farmingtonmuseum.org/

Allen County Museum - OH

(419) 222-9426

http://www.allencountymuseum.org/

Hancock Historical Museum - OH

(419) 423-4433

http://www.hancockhistoricalmuseum.org/

Ken Miller Supply's Oil, Gas, Car, Truck and Agriculture Museum - OH

(330) 496-4024 or (330) 567-5930 http://www.shreveohio.com/thisweek.htm

OIL AND GAS MUSEUMS

Oilfield Engine Society - OH

(937) 456-9387

http://www.oilfieldengine.com

Ames Astrobleme Museum - OK

http://amescrater.com/about.htm

Cherokee Strip Regional Heritage Center - OK

(580) 237-1907

http://www.regionalheritagecenter.org./01. htm

Conoco Museum - OK

(580) 765-8687

http://www.conocomuseum.com/index.htm

Drumright Community Historical Museum - OK

(918) 352-3002

http://drumrighthistoricalsociety.org/

Frank Phillips Home - OK

(918) 336-2491

http://www.frankphillipshome.org/

Greater Southwest Historical Museum

(580) 226-3857

http://visitors.ardmore.org/

Kerr Conference Center & Museum - OK

(918) 647-9579

http://www.carlalbert.edu/kerr_center/

Marland Oil Museum - OK

http://www.marlandmansion.com/

Nowata County Historical Museum - OK

http://www.ohwy.com/ok/y/ynowhimu.htm

Oklahoma History Center

(405) 522-5248

http://www.okhistorycenter.org/

Oklahoma Oil Museum

(405) 382-1500

http://www.seminoleoklahoma.com/

Phillips Petroleum Company Museum - OK

(918) 661-1305

http://www.phillips66museum.com/index.htm

Sam Noble Oklahoma Museum of **Natural History**

(405) 325-4712

http://www.snomnh.ou.edu/index.shtml

Sarkeys Energy Center, University of OK

(405) 325-3821

http://www.sec.ou.edu/index.php

SEG Geoscience Center & Virtual Museum - OK

(918) 497-5566

http://www.mssu.edu/seg-vm/

Stephens County Historical Museum - OK

(580) 252-0717

http://www.shopoklahoma.com/museums.

htm

Tulsa Historical Society - OK

(918) 712-9484

http://www.tulsahistory.org/learn/earlytulsa/ oil htm

Woolaroc Museum - OK

http://www.woolaroc.org/

Barbara Morgan Harvey Center for the Study of Oil Heritage - PA

http://www.web.clarion.edu/BMHarveyCenter/ HCWBuild/Harvey_Center_Web_Site/About_ Barbara_Morgan_Harvey.html

Coolspring Power Musuem - PA

http://www.coolspringpowermuseum.org/

Oil Region Alliance of Business, Industry & Tourism, Inc - PA

(800) 483-6264

http://www.oilregion.org/

Pumping Jack Museum - PA

(724) 867-0030

http://www.pumpingjack.org/

Simpler Times Museum - PA

(814) 484-3483

http://www.navr.org/museums.html

Venango Museum of Art, Science and Industry - PA

http://www.venangomuseum.org/

Bob Bullock Texas State History Museum - TX

(866) 369-7108

http://www.thestoryoftexas.com/

Carson Country Square House Museum - TX

(805) 537-3524

http://www.squarehousemuseum.org/

Central Texas Oil Patch Museum - TX (830) 875-1922

http://www.oilmuseum.org/Welcome.html

Depot Museum - TX

(903) 657-4303

http://www.depotmuseum.com/index.html

Felty Outdoor Oil Museum - TX

http://www.trailsandtales.org/index.htm

Fort Worth Museum of Science and History - TX

(817) 255-9300

http://www.fwmuseum.org/home/index.html

Gaston Museum - TX

(903) 847-2205

http://www.gastonmuseum.org/

Heritage Museum of Montgomery County - TX

(936) 539-6873

http://www.heritagemuseum.us/

Hutchinson County Historical Museum - TX

http://www.hutchinsoncountymuseum.org/ index.html

London Museum - TX

(903) 895-4602

http://www.nlse.org

Million Barrel Museum - TX

http://www.monahans.org/new/chamber/ museums.html

Museum of the Plains - TX

(806) 435-6400

http://www.museumoftheplains.com/

Panhandle-Plains Historical Museum - TX

http://www.panhandleplains.org

Petroleum Museum - TX

http://www.petroleummuseum.org/index.html

Ranger Historical Preservation Society

- TX

(254) 647-5353

http://www.txbusiness.com/rhps/

Van Area Oil & Historical Museum - TX

(903) 963-5435

http://www.vantexas.com/history.html

W. K. Gordon Center for Industrial **History of Texas - TX**

(254) 968-1886 http://www.tarleton.edu/~gordoncenter/ index.html

Hot Springs County Museum & Cultural

Center - WY (307) 864-5183

http://hschistory.org

Pioneer Association Museum of the American West - WY

(307) 332-4137

http://www.wyomingtourism.org/overview/ Salt-Creek-Oil-Museum/4155

Salt Creek Museum - WY

(307) 437-6513

http://wyshs.org/mus-saltcreek.htm

Tate Geological Museum - WY

(307) 268-2447

http://www.caspercollege.edu/tate

Oil and Gas museum information compiled by the American Oil and Gas Historical Society. For additional details, visit www.aoghs.org.

STATE RANKINGS

	Crude Oil Wells Drilled		latural Gas Vells Drilled		Crude Oil Production		latural Gas roduction
1	Texas	1	Texas	1	Federal Offshore	1	Texas
2	Oklahoma	2	Oklahoma	2	Texas	2	Federal Offshore
3	California	3	West Virginia	3	Alaska	3	Wyoming
4	Kansas	4	Pennsylvania	4	California	4	Oklahoma
5	Louisiana	5	Louisiana	5	Louisiana	5	New Mexico
6	Illinois	6	Wyoming	6	Oklahoma	6	Louisiana
7	New Mexico	7	New Mexico	7	New Mexico	7	Colorado
8	Ohio	8	Colorado	8	Wyoming	8	Alaska
9	Wyoming	9	Kansas	9	North Dakota	9	Utah
10	Pennsylvania	10	Federal Offshore	10	Kansas	10	Kansas
11	Kentucky	11	Ohio	11	Montana	11	California
12	Federal Offshore	12	Kentucky	12	Colorado	12	Alabama
13	New York	13	Michigan	13	Mississippi	13	Arkansas
14	Michigan	14	Montana	14	Utah	14	Michigan
15	Montana	15	New York	15	Illinois	15	West Virginia
16	West Virginia	16	Alabama	16	Alabama	16	Pennsylvania
17	Arkansas	17	Arkansas	17	Arkansas	17	Montana
18	Colorado	18	Utah	18	Ohio	18	Virginia
19	Mississippi	19	California	19	Michigan	19	Kentucky
20	North Dakota	20	Virginia	20	Pennsylvania	20	Ohio
21	Utah	21	Mississippi	21	Kentucky	21	Mississippi
22	Indiana	22	Tennessee	22	Nebrasksa	22	New York
23	Nebraska	23	Illinois	23	Florida	23	North Dakota
24	Alaska	24	Indiana	24	Indiana	24	Tennessee
25	Tennessee	25	Nebraska	25	South Dakota	25	Indiana
26	Alabama	26	North Dakota	26	West Virginia	26	Florida
27	Missouri	27	Alaska	27	Nevada	27	Nebraska
28	South Dakota	28	South Dakota	28	New York	28	South Dakota
29	Florida	29	Maryland	29	Tennessee	29	Arizona
30	Nevada	30	Missouri	30	Missouri	30	Oregon
31	Arizona	31	Oregon	31	Arizona	31	Illinois
32	Virginia	32	Arizona	32	Virginia	32	Maryland
33	Iowa	33	Washington			33	Nevada
34	Washington	34	Florida				
		35	Nevada				
		36	Idaho				
•	ooo IHC for walla drillad and Fl						

Sources: IHS for wells drilled and EIA for production.

TOP PRODUCING CONGRESSIONAL DISTRICTS - CRUDE OIL

Rank	State	District	% of US Prod
1	Alaska	At Large	15.9025
2	California	22*	10.0553
3	Texas	11	6.3519
4	New Mexico	2	3.1541
5	Texas	19	3.0758
6	Louisiana	3	1.8157
7	Wyoming	At Large	1.3613
8	Texas	23	1.1041
9	Utah	2	0.6494
10	Oklahoma	4	0.6153
11	Oklahoma	3	0.6117
12	Montana	At Large	0.4385
13	Texas	1	0.4266
14	Kansas	1	0.3401
15	Texas	15	0.3354
16	Colorado	3	0.3305
17	Texas	13	0.2334
18	North Dakota	At Large	0.2160
19	Louisiana	4	0.2143
20	Texas	14	0.2115
21	Louisiana	7	0.1704
22	Texas	2*	0.1270
23	Texas	25	0.1241
24	Texas	22	0.0998
25	Colorado	4	0.0992
26	Texas	18*	0.0914
27	Texas	28*	0.0842
28	Texas	2	0.0640
29	Texas	27	0.0589
30	Texas	17	0.0565
31	New Mexico	3	0.0527
32	Texas	8	0.0522
33	Texas	6	0.0505
34	Alabama	1	0.0487
35	Michigan	1	0.0384
36	Texas	12	0.0269
37	Louisiana	5	0.0262
38	Texas	5	0.0239
39	Oklahoma	2	0.0223
40	Texas	17*	0.0054
41	Mississippi	3	0.0048
42	Texas	26	0.0026
43	Texas	3*	0.0013
44	Mississippi	3*	0.0012
45	Texas	11*	0.0008

Source: IPAA and IHS.

^{*}Districts have been aggregated for ranking purposes and rounded in certain cases.

TOP PRODUCING CONGRESSIONAL DISTRICTS - NATURAL GAS

Rank	State	District	% of US Prod
1	Wyoming	At Large	11.1376
2	Colorado	3	5.4096
3	New Mexico	3	5.3273
4	Oklahoma	3	4.9692
5	Texas	1	4.5314
6	Texas	15	3.1379
7	Texas	17	3.0698
8	Texas	28*	3.0780
9	Texas	12*	2.9563
10	Texas	13	2.4397
11	Oklahoma	2	1.9907
12	Louisiana	4	1.8714
13	Texas	23	1.8700
14	Texas	6	1.7881
15	Utah	2	1.6517
16	Louisiana	3	1.6257
17	New Mexico	2	1.6073
18	Texas	11	1.3693
19	Kansas	1	1.2803
20	Texas	25	1.2777
21	Colorado	4	1.1012
22	Alaska	At Large	0.9489
23	Texas	26	0.9457
24	Louisiana	7	0.9291
25	Texas	27	0.8684
26	Mississippi	3	0.8632
27	Louisiana	5	0.7919
28	Alabama	1	0.7096
29	Oklahoma	4	0.6805
30	Texas	14	0.6213
31	Michigan	1	0.5576
32	Texas	17*	0.5007
33	Virginia	9	0.4706
34	Texas	11*	0.4650
35	Alabama	6*	0.4498
36	Arkansas	3	0.4040
37	Texas	2	0.3511
38	Texas	8	0.3284
39	Arkansas	2	0.3264
40	Texas	2*	0.3043
40	IEXAS	2	0.2719
41	Arkansas	4	0.2478
42	Texas	22	0.1566
43	West Virginia	3	0.1475
44	Mississippi	3*	0.1340
45	Texas	18*	0.1169
46	Texas	5	0.1160
47	Montana	At Large	0.1104
48	Texas	5	0.0846
49	North Dakota	At Large	0.0318
50	California	22*	0.0298

Source: IPAA and IHS.

^{*}Districts have been aggregated for ranking purposes and rounded in certain cases.



Be a part of IPAA's premiere grassroots initiative, the

RIG Program

What is the IPAA RIG Program?

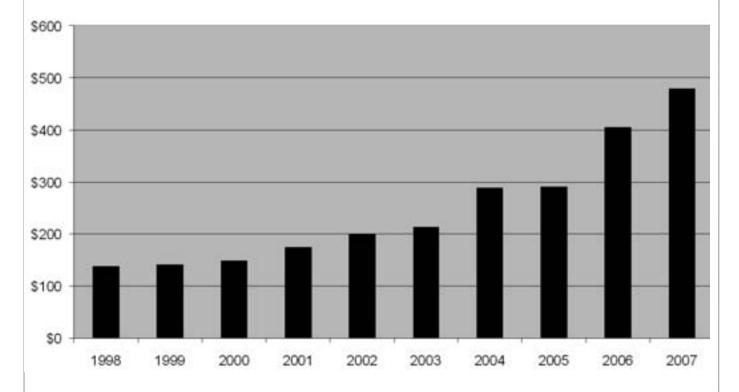
- A volunteer-based campaign
- A tool for educating elected officials
- The most effective way for you to have a positive impact on your industry!

Intended to maximize the independent producer's voice and concerns regarding national energy policy, the RIG Program will establish sustained, one-to-one relationships between IPAA members and their elected officials.

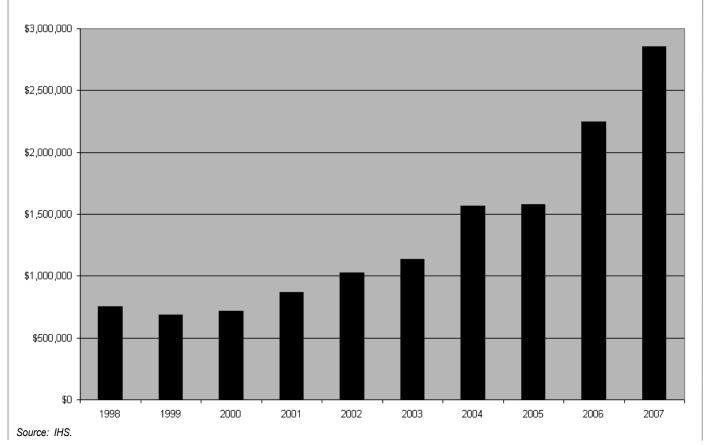
Small tasks can have a large effect! Help make a difference in shaping our national energy policy, join the RIG Program today and find out what you can do to get involved.

To learn more, or to register to participate, visit www.ipaa.org/rig/ Or send an email to rigprogram@ipaa.org

Average Cost per Foot in U.S.

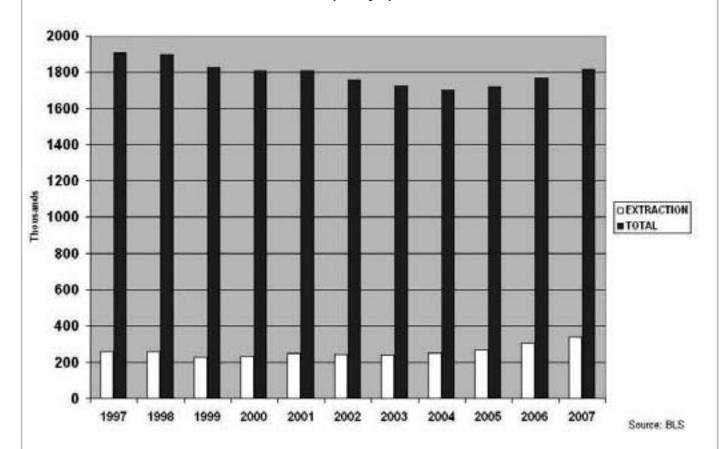


Average Cost per Well in U.S.

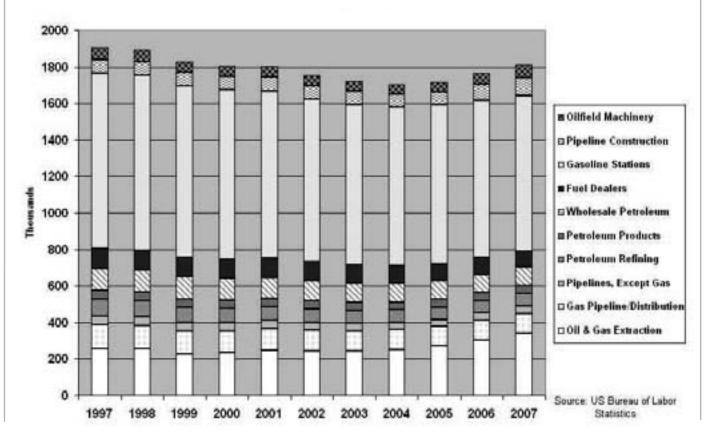


COMPILED BY IPAA AUGUST 2009

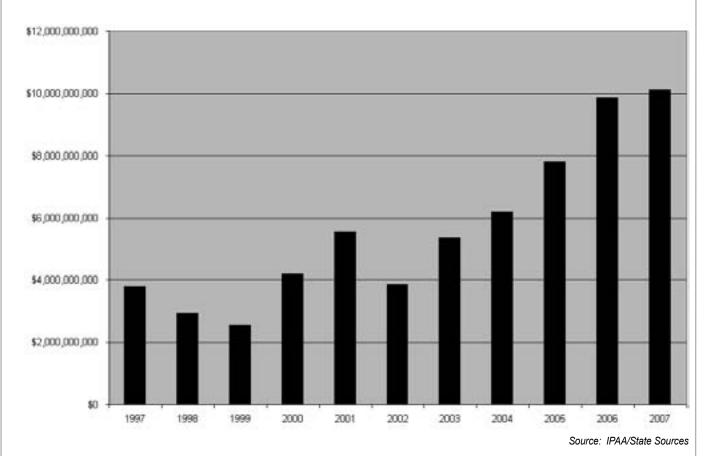
Industry Employment



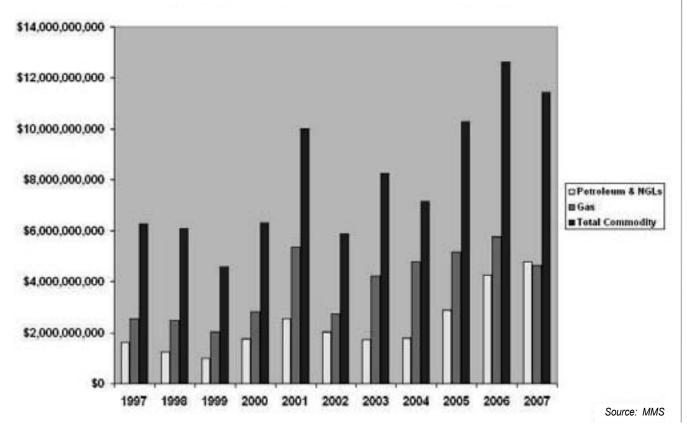
U.S. Energy Employment



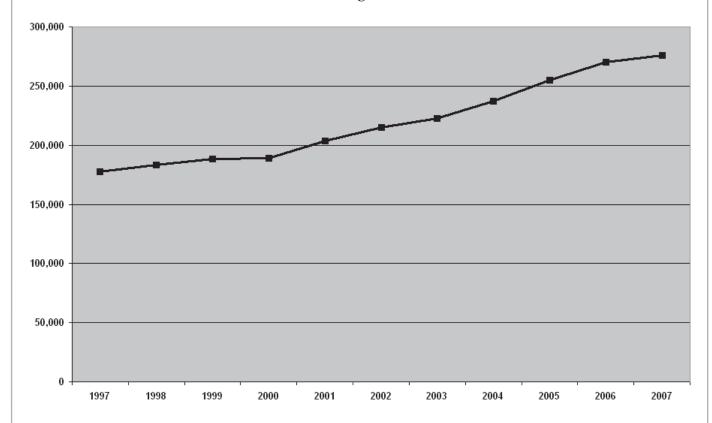
Severance Taxes



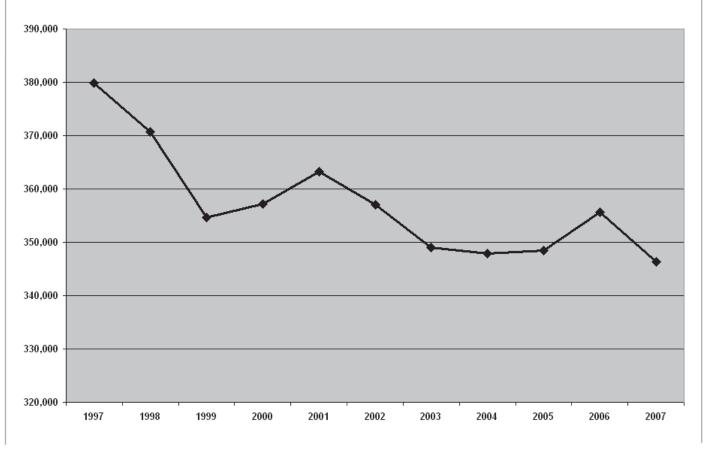
Total Petroleum & Natural Gas Royalties, Rents & Bonuses



Number of Marginal Gas Wells in U.S.



Number of Marginal Oil Wells in U.S.



CRUDE OIL SUMMARY

Year		roductio		Imports		pply	Exports			Crude Re		Price
	Crude Oil	NGL	Total	Total	Other	Total		Domestic	Total		New Reserves	
1961 1962 1963 1964 1965	7,183 7,332 7,542 7,614 7,804	991 1,021 1,098 1,155 1,210	8,174 8,353 8,640 8,769 9,014	1,917 2,082 2,123 2,258 2,468	hous. b/d) 179 175 202 217 220	10,270 10,610 10,965 11,244 11,702	174 168 208 202 187	9,976 10,400 10,743 11,023 11,513	10,150 10,568 10,951 11,225 11,700	(<i>mill.</i> 31,759 31,389 30,970 30,991 31,352	2,658 2,181 2,174 2,665 3,048	(\$/bbl.) 2.89 2.90 2.89 2.88 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
2004	5,419	1,809	7,228	13,145	1,406	21,779	1,048	20,731	21,779	21,371	1,299	36.77
2005	5,178	1,717	6,895	13,714	1,358	21,967	1,165	20,802	21,967	21,757	2,119	50.28
2006	5,102	1,739	6,841	13,707	1,456	22,004	1,317	20,687	22,004	20,972	867	59.69
2007	5,064	1,783	6,847	13,468	1,798	22,113	1,433	20,680	22,113	21,317	2,036	66.52

Sources: Energy Information Administration.

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

NATURAL GAS SUMMARY

Year	Production	Extraction Imports	Sup	oply	Exports	Consumption	n Gas R	eserves	Price
	Marketed Dry	Loss	Other	Total			Proved Reserves	New Reserves	Gas Wellhead
1961 1962 1963 1964 1965	13,254 12,662 13,877 13,253 14,747 14,073 15,547 14,824 16,040 15,283	6 624 402 670 406 723 443	686 838 899 866 934	13,578 14,509 15,399 16,153 16,703	11 16 17 20 26	12,489 13,267 13,970 14,814 15,280	267,728 273,766 276,151 281,251 286,469	17,421 19,750 18,418 20,447 21,470	(\$/Mcf.) .15 .16 .16 .15 .15
1966 1967 1968 1969 1970	17,207 16,468 18,171 17,386 19,322 18,494 20,698 19,83 21,921 21,018	785 564 828 652 867 727	1,116 1,052 1,236 1,329 1,388	18,089 19,084 20,476 21,938 23,294	25 82 94 51 70	16,452 17,388 18,632 20,056 21,139	289,333 292,908 287,350 275,109 290,746	20,355 21,956 13,816 8,482 37,598	.16 .16 .16 .17 .17
1971 1972 1973 1974 1975	22,493 21,610 22,532 21,624 22,648 21,73 21,601 20,713 20,109 19,236	908 1,019 917 1,033 8 887 959	1,427 1,679 1,456 1,624 1,687	24,052 24,400 24,297 23,373 21,949	80 78 77 77 73	21,793 22,101 22,049 21,223 19,538	278,806 266,085 249,950 237,132 228,200	10,136 9,791 6,471 8,501 10,786	.18 .19 .22 .30 .45
1976 1977 1978 1979 1980	19,952 19,098 20,025 19,163 19,974 19,123 20,471 19,663 20,180 19,403	8 863 1,011 2 852 966 3 808 1,253	1,640 1,654 1,817 1,620 1,385	21,767 21,884 21,958 22,592 21,822	65 56 53 56 49	19,946 19,521 19,627 20,241 19,877	216,026 207,413 208,033 200,997 199,021	7,368 12,978 19,425 12,221 16,723	.58 .79 .91 1.18 1.59
1981 1982 1983 1984 1985	19,956 19,18 ⁻¹ 18,582 17,820 16,884 16,09 ⁻¹ 18,304 17,460 17,270 16,45 ⁻¹	762 933 790 918 838 843	1,499 1,647 1,523 1,894 2,005	21,643 20,452 18,590 20,258 19,464	59 52 55 55 55	19,404 18,001 16,835 17,951 17,281	201,730 201,512 200,247 197,463 193,369	21,446 17,288 14,523 14,409 11,891	1.98 2.46 2.59 2.66 2.51
1986 1987 1988 1989 1990	16,859 16,059 17,433 16,62 17,918 17,100 18,095 17,31 18,594 17,810	812 993 8 816 1,294 785 1,382	1,364 1,484 1,807 2,917 2,265	18,234 19,152 20,278 21,717 21,693	61 54 74 107 86	16,221 17,211 18,030 19,119 19,174	191,586 187,211 168,024 167,116 169,346	13,827 11,739 -2,517 16,075 19,463	1.94 1.67 1.69 1.69 1.71
1991 1992 1993 1994 1995	18,532 17,698 18,712 17,840 18,982 18,098 19,710 18,822 19,506 18,598	872 2,138 886 2,350 889 2,624	2,699 2,805 3,105 2,598 3,333	22,299 22,999 23,690 24,205 24,927	129 216 140 162 154	19,562 20,228 20,790 21,247 22,207	167,062 165,015 162,415 163,837 165,146	14,918 15,376 15,189 19,744 19,275	1.64 1.74 2.04 1.85 1.55
1996 1997 1998 1999 2000	19,751 18,854 19,866 18,902 19,961 19,024 19,805 18,832 20,198 19,182	964 2,994 938 3,152 973 3,585 1,016 3,782	3,725 3,641 2,975 2,585 3,053	25,669 25,694 25,310 25,166 26,261	153 157 159 163 244	22,610 22,737 22,246 22,405 23,333	166,474 167,223 164,041 167,406 177,427	21,456 19,960 15,538 22,293 29,240	2.17 2.32 1.96 2.19 3.68
2001 2002 2003 2004 2005 2006	20,570 19,616 19,885 18,926 19,974 19,096 19,517 18,59 18,927 18,05 19,410 18,504	957 4,015 9 876 3,944 927 4,259 876 4,341 906 4,186	2,110 2,734 2,526 2,689 2,621 1,919	26,076 26,193 26,249 26,393 25,742 25,333	373 516 680 854 729 724	22,239 23,007 22,277 22,389 22,011 21,685	183,460 186,946 189,044 192,513 204,385 211,085	25,812 22,839 21,523 22,637 30,330 25,245	4.00 2.95 4.88 5.46 7.33 6.39
2007	20,019 19,089	930 4,608	2,483	27,002	822	23,047	237,726	46,107	6.37

Sources: Energy Information Administration.

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

DRILLING SUMMARY

Year	Seismic Crew	s Rotary Ri	igs Explorat	ory Wells		Total \	Well Comp	letions		Footage
	Working	Active	New-Field Wildcats	Total Exploratory	Oil Wells	Gas Wells	Dry Wells	Service Holes	Total Wells	Total Drilled (mill. ft.)
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	3,155	12,028	11,838	6,354	1,017	31,237	165.4
1998	1,566	827	1,478	2,445	8,389	12,233	5,202	838	26,662	143.6
1999	1,125	625	1,244	1,842	5,419	12,663	3,930	478	22,490	110.0
2000	727	918	1,505	2,231	8,860	17,283	4,721	930	31,794	148.9
2001	717	1,156	1,765	3,018	9,581	21,601	4,667	786	36,635	184.0
2002	674	830	1,452	2,233	7,222	16,801	3,771	747	28,541	145.0
2003	481	1,032	1,711	2,484	8,710	20,715	4,011	815	34,251	178.5
2004	563	1,192	1,951	2,891	9,303	23,377	3,979	1,447	36,777	202.6
2005	655	1,383	1,936	3,729	10,882	26,809	4,005	1,596	41,696	226.6
2006	728	1,649	2,275	4,368	13,150	30,349	4,674	1,946	48,173	266.9
2007	848	1,769	2,562	5,206	12,959	30,886	4,371	2,062	48,216	285.1

Sources: EIA & IHS, World Oil, Baker-Hughes & American Petroleum Institute (wells drilled data pre-2005).

Notes: Total well completions include exploratory and development wells. API historical data may not match IHS data used for recent decade on state and summary pages.



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)	33,435
Natural gas (Texas)	30,712

Year and depth of deepest well drilled (ft.)

2007 (GOM) 33,435

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	1,541,584	48%
Gas wells	706,524	21%
Dry holes	993,265	31%
Total	3 241 425	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$2,128,197,136

Cumulative production & new reserves as of 12/31/07

Crude NGL Natural Oil (mill. bbls.) Total Gas (Bcf) Reserves 210,224 49,985 260,209 1,320,063 Production 188,821 37,999 226,820 1,071,833

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$66.52
Natural gas (\$Mcf)	\$ 6.37

Wellhead value of production

(2007, in thous. \$)

Crude oil	\$122,958,894
Natural gas	\$127,523,075
Total	\$250,481,969

Average natural gas price (2007, \$/Mcf)

Residential consumers \$13.06 Commercial consumers \$11.32 Industrial consumers \$ 7.68 Electric utilities \$ 7.31 City Gate \$ 8.12

Severance taxes paid \$10,108,535 (2007, in thous. \$)

Top 10 Producing Counties (2007 on a BOE basis)

County	State % l	JS Prod
Beechey Point	AK	4.10
Mississippi Canyon	FOS	4.05
Sublette	WY	3.51
Kern	CA	2.28
San Juan	NM	2.07
Green Canyon	FOS	1.54
La Plata	CO	1.45
Harrison Bay	AK	1.31
Johnson	TX	1.14
Garfleld	CO	1.11

2007 Industry Statistics

NI	ım	hor	٥f	wel	ı۵	dril	lod
IVI	ım	ner	OT	wei	IS.	arıı	ıea.

	Exploratory	Development	Total
Oil	971	11,988	12,959
Gas	2,871	28,015	30,886
Dry	1,364	3,007	4,371
Total	5,206	43,010	48,216

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	6,714.5	55,532.1	62,246.6
Gas	16,678.6	183,187.6	199,866.1
Dry	7,925.1	15,108.0	23,033.1
Total	31,318.2	253,827.7	285,145.8
(Note: T	otals may not add o	due to rounding.)	

New-field wildcats drilled	2,562
Footage (thous, ft.)	16.128.9

Average rotary rigs active 1,769

Permits 71,872

Worldwide rank

Crude Oil	Natural Gas
1st	1st
3rd	2nd
12th	5th
	1st 3rd

Number of operators 15,253

Number of producing wells

(12/31/07)

Crude oil	438,626
Natural gas	394,045
Total	832,671

Average production

Crude oil (thous. b/d)	4,521
Natural gas	51,060
Total	55,581

Total production

Crude oil (YTD bbls, in thous.)	1,222,648
Natural gas (YTD MMcf)	18,636,963

Natural gas marketed production

(MMcf)	20,019,321

Average output per producing well

Crude oil (bbls.)	2,787
Natural gas (Mcf)	41,479

Coalbed methane (YTD MMcf) 1,739,310 Oil Wells 32

Gas Wells 44,613
Daily Average (MMcf) / Well 4,765

 Heavy oil (YTD bbls, in thous.)
 247,692

 Wells
 59,364

 Av. bbls per day
 678.6

 Av. bbls per well/d
 34,061

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	2,036	1,502	3,538
Production	1,691	831	2,522
Net annual change	345	671	1,016
Proved reserves	21,317	9,143	30,460

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserve	5,324	42,367	46,107
Production	2,296	18,022	19,466
Net annual cha	inge 3,028	24,345	26,641
Proved reserve	es 32,668	215,121	237,726

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	391	1,877,964	24,336,536
Gas	424	2,745,840	84,808,014
Dry	312	1,646,232	7,195,681

Marginal oil wells

Producing marginal wells	346,305
Crude oil production in bbls. (thous.)	360,777
Crude oil production b/d (thous.)	988

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	275,861
Natural gas production (MMcf)	2,642,563

Mineral Lease Royalties, Bonuses & Rent

Oil	\$ 4,769,661,708
Gas	\$ 4,644,072,934
Total Royalties	\$11,428,640,050

Horizontal wells drilled 5.972

Average number of employees

Oil and natural gas extraction	446,512
Refining	87,546
Transportation	156,156
Wholesale	188,689
Retail	861,885
Pipeline construction	97,114
Oilfield machinery	60,045
Total petroleum industry	1,897,947

^{*} Canadian oil sands included

FEDERAL OFFSHORE



Background Information

DIa	nnina	Areas
ГΙα	шшц	Aleas

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

First year of production

Crude oil 1946 Natural gas 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 10,062 Natural gas 26,480

Year and depth of deepest well drilled (ft.)

Water depth (2005) 10,062 Well depth (2007) 33,435

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

 Oil wells
 21,365
 32%

 Gas wells
 26,320
 40%

 Dry holes
 18,537
 28%

 Total
 66,222
 100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$322,035,223

Cumulative production & new reserves as of 12/31/07

 Crude
 NGL
 Natural

 Oil
 (mill. bbls.)
 Total
 Gas (Bcf)

 Reserves
 21,562
 4,798
 26,360
 149,508

 Production
 15,599
 2,874
 18,473
 65,763

Value of Oil and Gas

Average wellhead price

(2007)

Crude oil (\$/bbl.) \$67.00 Natural gas (\$Mcf) \$ 7.12

Wellhead value of production (2007, in thous, \$)

Crude oil \$32,877,704 Natural gas \$20,354,037 Total \$53,231,741

Federal Revenues

(2007, in thous. \$)

 Bonuses
 \$ 373.9

 Rents
 \$ 201.0

 Royalties
 \$6,441.2

 Total
 \$7,019.3

Top 10 Producing Counties

(2007 on a BOE basis)

County	% Production	
	State	US
Mississippi Canyon	23.95	4.05
Green Canyon	11.76	1.54
Viosca Knoll	5.41	0.71
Garden Banks	5.35	0.70
South Timbalier	3.56	0.47
West Cameron	3.38	0.44
East Breaks	3.18	0.42
Eugene Island	2.94	0.39
Ship Shoal	2.82	0.37
Santa Cruz Area	2.53	0.33

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	Exploratory	Development	Total
Oil	5	128	133
Gas	23	185	208
Dry	112	102	214
Total	140	415	555

Total footage drilled

(thous ft)

	Exploratory	Development	Total	
Oil	115.6	1,449.2	1,564.8	
Gas	194.0	1,766.6	1,960.6	
Dry	1,280.5	737.4	2,017.9	
Total	1,590.1	3,953.2	5,543.3	
(Note: Totals may not add due to rounding.)				

New-field wildcats drilled	132
Footage (thous. ft.)	1,512.10

Average rotary rigs active	73
----------------------------	----

Permits 1,125

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	12th	10th
Production	1st	2nd
Reserves (2007)	3rd	6th

Number of producing wells

(12/31/07)

Crude oil	3,554
Natural gas	3,487
Total	7,041

Average production

Crude oil (thous. b/d)	1,171
NGL (est.)	176.7
Natural gas (MMcf/day)	6,280

Total production

Crude oil (YTD bbls, in thous.)	427,571
Natural gas (YTD MMcf)	2 292 279

Natural gas marketed production

(MMcf) 2,860,083

Average output per producing well

 Crude oil (bbls.)
 120,307

 Natural gas (Mcf)
 820,213

Producing well depth

	Oil Wells	Gas Wells
Shelf (wd <1,000 ft)	3,099	3,325
Deep (wd 1,000-4,999 ft)	419	126
Ultra Deep (wd >5,000 ft)	36	26
Total	3 554	3 487

Number of operators

Producing oil	73
Producing natural gas	108

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

C	rude Oil	NGL	Total
New reserves	248	98	346
Production	439	127	566
Net annual change	-191	-29	-220
Proved reserves	3 905	624	4 529

Natural gas reserves

as of 12/31/07 (Bcf)

As	ssociated	Non-	Dry
D	issolved	Associated	Gas
New reserves	570	1,296	1,810
Production	625	2,178	2,731
Net annual change	-55	-822	-921
Proved reserves	4,780	10,033	14,439

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	4,262	50,155,789	6,670,720
Gas	4,329	40,810,933	8,488,674
Dry	3,866	36,453,486	7,801,046

2007 Lease Statistics

G&G permits	93
Platform installations	81
Platform removals	156
Platform in place	3,837

Lease characteristics

Existing le	ases
-------------	------

<200 meters of water	3,287
200-400 meters of water	109
401-900 meters of water	94
>900 meters of water	130

Oil & natural gas fields

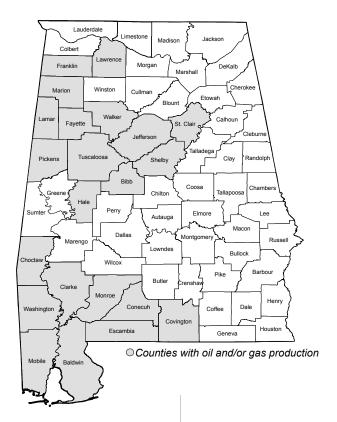
Producing	873
Non-producing	40

Mineral Lease Royalties, Bonuses & Rent

Oil	\$3,860,021,813
Gas	\$2,592,331,833
Total Royalties	\$7 019 305 120

From 1996 to 2007, the gas production in Mississippi Canyon Block 0807 field has gone from 6.5 million MCFs to over 98 million. This field was discovered in 1989 and continues to be the top producing field in the region.

ALABAMA



Background Information

Counties

Number of counties	67
With oil and/or gas production	22

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 19.000 Natural gas 23,330

Year and depth of deepest well drilled (ft.)

1995 24,275

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells 1,387 10% Gas wells 8.425 58% Dry holes 4,656 32% Total 14,468 100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$11,641,033

Cumulative production & new reserves as of 12/31/07

Crude NGL Natural Oil (mill. bbls.) Total Gas (Bcf) Reserves 512 407 919 8,869 Production 487 374 861 7,161

Value of Oil and Gas

Average wellhead price (2007)

Crude oil (\$/bbl.) \$71.10 Natural gas (\$Mcf) \$ 7.44

Wellhead value of production

(2007, in thous. \$)

Crude oil \$ 510,000 Natural gas \$2,011,828 Total \$2,521,828

Average natural gas price

(2007, \$/Mcf)

Residential consumers \$18.13 Commercial consumers \$15.07 Industrial consumers \$ 8.70 Electric utilities \$ 7.19 City Gate \$ 8.78

Severance taxes paid \$139,380

(2007 in thous. \$)

Top 10 Producing Counties

(2007 on a BOE basis)

County	% Production	
	State	US
Tuscaloosa	28.43	0.29
Mobile	23.57	0.24
Baldwin	23.03	0.24
Jefferson	7.47	0.08
Escambia	6.40	0.07
Conecuh	3.71	0.04
Walker	1.31	0.01
Monroe	1.26	0.01
Shelby	1.14	0.01
Lamar	1.04	0.01

Number	of wells	drilled
nunner	oi wells	urmeu

	Exploratory	Development	Total
Oil	5	14	19
Gas	13	473	486
Dry	31	18	49
Total	49	505	554

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	65.5	143.5	209.0
Gas	76.6	1,192.1	1,268.8
Dry	292.0	51.8	343.8
Total	434.2	1,387.4	1,821.6
(Note: Totals may not add due to rounding.)			

New-field wildcats drilled 35 Footage (thous. ft.) 297.6

Average rotary rigs active 5

Permits 500

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	26th	16th
Production	16th	12th
Reserves (2007)	25th	18th

Number of operators 81

Number of producing wells

(12/31/07)

Crude oil	488
Natural gas	5,728
Total	6,216

Average production

Crude oil (thous. b/d)	14
NGL (thous. b/d)	5.4
Natural gas (MMcf/d)	725

Total production

Crude oil (YTD bbls, in thous.)	4,951
Natural gas (YTD MMcf)	264,468

Natural gas marketed production

(MMcf) 270,407

Average output per producing well

Crude oil (bbls.)	10,145
Natural gas (Mcf)	46,171

Coalbed methane (YTD MMcf) 113,884

Oil Wells	4
Gas Wells	5,281
Daily Average (MMcf) / Well	312

Heavy oil (YTD bbls, in thous.)	NA
Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

	Crude Oil	NGL	Total
New reserve	es 2	1	3
Production	5	5	9
Net annual of	change -3	-3	-6
Proved rese	rves 42	53	95

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	6	344	357
Production	4	273	274
Net annual chan	ge 2	71	83
Proved reserves	20	4,016	3,994

Cost of drilling and equipping wells

	Cost/ft	Cost	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	521	5,729,329	108,857
Gas	351	915,943	445,148
Dry	323	2,266,582	111,063

Marginal oil wells

Producing marginal wells	308
Crude oil production in bbls. (thous.)	693
Crude oil production b/d (thous.)	2

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	4,563
Natural gas production (MMcf)	66,314

Mineral Lease Royalties, Bonuses & Rent

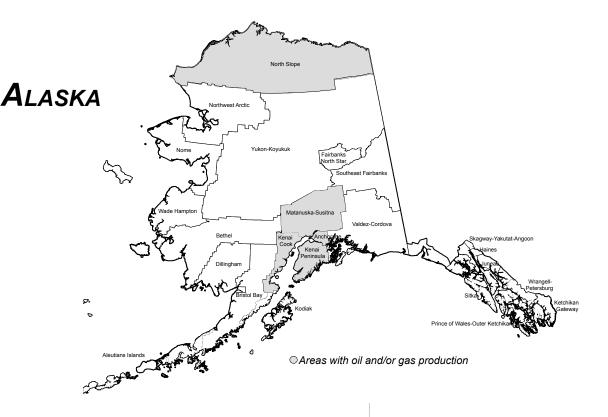
Oil	\$ 505,447
Gas	\$ 595,667
Total Royalties	\$2,298,273

Horizontal wells drilled 2

Average number of employees

2,071
963
3,335
3,141
18,992
1,154
0
29,656

In 2007, 16 wells were completed in Little Cedar Creek Field. The first well was completed in this field in 1994.



Background Information

Areas

Number of areas	15
With oil and/or gas production	8

First year of production

1905 Crude oil 1945 Natural gas

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 25,040 Natural gas 17,864

Year and depth of deepest well drilled (ft.)

2007 25.040

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells 4.656 78% Gas wells 312 5% Dry holes 1,002 17% Total 5,970 100%

Cumulative crude oil wellhead value

\$258,589,042 as of 12/31/07 (thous. \$)

Cumulative production & new reserves as of 12/31/07

Crude NGL Natural Oil (mill. bbls.) Total Gas (Bcf) Reserves 20,487 510 20,997 24,890 Production 15,915 381 16,296 12,121

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.) \$63.52 Natural gas (\$Mcf) \$ 5.63

Wellhead value of production

(2007, in thous. \$)

\$16,819,997 Crude oil Natural gas \$ 2,440,521 Total \$19,260,518

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$8.68
Commercial consumers	\$7.57
Industrial consumers	\$4.67
Electric utilities	\$3.58
City Gate	\$6.75

Severance taxes paid \$2,208,400 (2007, in thous. \$)

Top Producing Counties

(2007 on a BOE basis)

County	% Production	
	State	US
Beechey Point	57.69	4.11
Harrison Bay	18.40	1.31
Kenai	3.09	0.17
Tyonek	2.51	0.14
Kenai Offshore	2.41	0.13
Tyonek Offshore	1.31	0.07
Seldovia	0.14	<0.01
Barrow	0.07	<0.01

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	Exploratory	Development	Total
Oil	2	118	120
Gas	2	12	14
Dry	11	3	14
Total	15	133	148

Total footage drilled

(thous. 1

	Exploratory	Development	Total
Oil	16.7	851.0	867.8
Gas	5.6	102.4	108.0
Dry	55.5	24.4	79.9
Total	77.8	977.7	1,055.6
(Note: Totals may not add due to rounding.)			

New-field wildcats drilled Footage (thous. ft.)

Average rotary rigs active 8

56.7

Permits 179

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	24th	27th
Production	3rd	8th
Reserves (2007)	2nd	7th

Number of operators

Number of producing wells

(12/31/07)	
Crude oil	2,402
Natural gas	185
Total	2,587

Average production

Crude oil (thous. b/d)	719
NGL (thous. b/d)	3.2
Natural gas (MMcf/day)	485

Total production

Crude oil (YTD bbls, in thous.)	262,427
Natural gas (YTD MMcf)	176,850

Natural gas marketed production

(MMcf)	433,485
--------	---------

Average output per producing well

Crude oil (bbls.)	109,254
Natural gas (Mcf)	955.945

Coalbed methane (YTD MMcf) N.

Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA
Gas Wells	N/

Heavy oil (YTD bbls, in thous.)

Wells

Av. bbls per day

Av. bbls per well/d

NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	545	0	545
Production	261	13	274
Net annual chang	ge 284	-13	271
Proved reserves	4.163	325	4.488

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	2,903	-13	2,060
Production	227	164	388
Net annual chang	ge 1,866	-177	1,672
Proved reserves	20,752	1,270	11,917

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	4,090	29,573,300	3,548,796
Gas	2,301	17,744,382	248,421
Dry	2,854	16,278,447	227,898

Marginal oil wells

Producing marginal wells	163
Crude oil production in bbls. (thous.)	287
Crude oil production b/d (thous.)	1

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	0
Natural gas production (MMcf)	0

Mineral Lease Royalties, Bonuses & Rent

Oil	\$ 1,522,574
Gas	\$13,279,445
Total Royalties	\$40,833,038

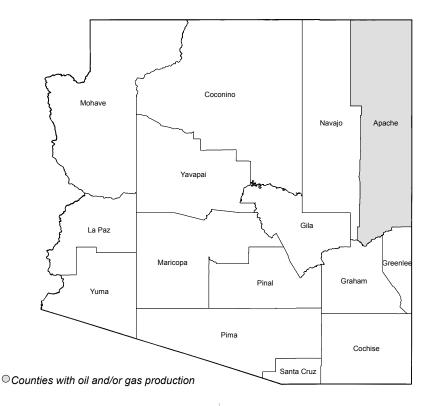
Horizontal wells drilled 8

Average number of employees

Oil and natural gas extraction	11,737
Refining	417
Transportation	0
Wholesale	1,418
Retail	1,790
Pipeline construction	368
Oilfield machinery	0
Total petroleum industry	15,730

Discovered in the late 1960s, Prudhoe Bay Feld in Alaska produced just over 277,000 barrels in 1969. By 2007, over 124 millions barrels were produced to put this field as the top producing field in the state.

ARIZONA



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	6,382
Natural gas	5.771

Year and depth of deepest well drilled (ft.)

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	71	6%
Gas wells	52	5%
Dry holes	996	89%
Total	1,119	100%

Cumulative crude oil wellhead value

\$70,808,080 as of 12/31/07 (thous. \$)

Cumulative production & new reserves as of 12/31/07

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

Value of Oil and Gas

Average wellhead price*

Crude oil (\$/bbl.)	\$67.26
Natural gas (\$Mcf)	\$ 5.98

Wellhead value of production (2007, in thous. \$)

Crude oil	\$2,892
Natural gas	\$3,917
Total	\$6,809

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$17.21
Commercial consumers	\$12.84
Industrial consumers	\$10.49
Electric utilities	\$ 6.84
City Gate	\$ 8.25
Severance taxes paid	\$6,761

Top Producing Counties (2007 on a BOE basis)

(2007, in thous. \$)

County	% Proc	% Production	
	State	US	
Apache	100	< 0.01	

Number of wells drilled			
	Exploratory	Development	Total
Oil	NA	NA	NA
Cas	NΔ	NΔ	NΙΔ

NA	NA	NA
NA	NA	NA
1	1	2
1	1	2
	NA 1	NA NA 1 1

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	4.0	1.0	5.0
Total	4.0	1.0	5.0
(Note: 7	Totals may not add	due to rounding.)	

New-field wildcats drilled	
Footage (thous. ft.)	4.0

Average rotary rigs active	0
The state of the s	-

Permits 3

Statewide rank

Crude Oil	Natural Ga
31st	32nd
31st	29th
NA	NA
	31st 31st

Number of operators 3

Number of producing wells

(12/31/07)

Crude oil	22
Natural gas	5
Total	27

Average production Crude oil (thous. b/d)

Crude oil (thous. b/d)	0
NGL (thous. b/d)	0
Natural gas (MMcf/day)	2

Crude oil (YTD bbls, in thous.)	41
Natural gas (YTD MMcf)	590

Natural gas marketed production

(MMcf) 655

Average output per producing well

Crude oil (bbls.)	1,846
Natural gas (Mcf)	117,913

Coalbed methane (YTD MMcf) NA

NA
NA
NA

Heavy oil (YTD bbls, in thous.)	NA
Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

* State Data.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

Crud	de 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 12/31/07 (Bcf)

As	sociated	Non-	Dry
D	issolved	Associated	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.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	217	545,630	1,091

Marginal oil wells

Producing marginal wells	21
Crude oil production in bbls. (thous.)	27
Crude oil production b/d (thous.)	0

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	2
Natural gas production (MMcf)	21

Mineral Lease Royalties, Bonuses & Rent

Oil	\$	431,220
Gas	\$	50,082
Total Royalties	\$5	3,844,374

Horizontal wells drilled 0

Average number of employees

Oil and natural gas extraction	310
Refining	324
Transportation	250
Wholesale	2,073
Retail	16,869
Pipeline construction	947
Oilfield machinery	0
Total petroleum industry	20,773

Dineh-Bi-Keyeh Field in Arizona had 23 wells completed in 1967 with over 2 million barrels of oil produced. Still the highest producing field in Arizona, less than 50,000 barrels were produced in 2007.

ARKANSAS



O Counties with oil and/or gas production

Background Information

Counties

Number of counties	75
With oil and/or gas production	25

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 — 269,886 MMcf	2007

Deepest producing well (ft.)

Crude oil	12,500
Natural gas	19.850

Year and depth of deepest well drilled (ft.)

1992 20,661

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	14,380	39%
Gas wells	7,704	21%
Dry holes	14,661	40%
Total	36 745	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$11,472,483

Cumulative production & new reserves

as of 12/5 1/01				
	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	1,827	93	1,920	11,612
Production	1,762	89	1,851	8,027

Value of Oil and Gas

Average wellhead price (2007)

Crude oil (\$/bbl.)	\$ 64.25
Natural gas (\$Mcf)	\$ 6.92

Wellhead value of production (2007, in thous. \$)

Crude oil	\$ 387,492
Natural gas	\$1,867,611
Total	\$2.255.103

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$13.08
Commercial consumers	\$10.07
Industrial consumers	\$ 9.51
Electric utilities	\$ 7.04
City Gate	\$ 8.55

Severance taxes paid \$14,928

(2007, in thous. \$)

County	% Production	
	State	US
Logan	15.70	0.16
Sebastian	14.11	0.11
Franklin	11.49	0.09
Van Buren	10.85	0.09
Conway	8.45	0.07
White	7.20	0.06
Yell	6.22	0.05
Crawford	3.51	0.03
Scott	3.21	0.03
Columbia	3.16	0.03

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Number	or wells	arillea

	Exploratory	Development	Total
Oil	3	55	58
Gas	337	385	722
Dry	20	30	50
Total	360	470	830

Total footage drilled

(thous ft)

	Exploratory	Development	Total
Oil	18.7	205.0	223.7
Gas	2,303.7	2,454.7	4,758.3
Dry	113.7	170.8	284.6
Total	2,436.0	2,830.5	5,266.6
(Note: Totals may not add due to rounding.)			

New-field wildcats drilled 317 Footage (thous. ft.) 2,152.0

Average rotary rigs active 45

Permits 1,186

Statewide rank

Crude Oil	Natural Gas
17th	17th
17th	13th
15th	14th
	17th 17th

Number of operators 316

Number of producing wells

(12/31/07)

Crude oil	2,487
Natural gas	4,955
Total	7,442

Average production

Crude oil (thous. b/d)	14
NGL (thous. b/d)	C
Natural gas (MMcf/day)	720

Total production

Crude oil (YTD bbls, in thous.)	5,249
Natural gas (YTD MMcf)	262,629

Natural gas marketed production

(MMcf) 269,886

Average output per producing well

Crude oil (bbls.)	2,110
Natural gas (Mcf)	53,003

Coalbed methane (YTD MMcf) 2,369

Oil Wells	0
Gas Wells	45
Daily Average (MMcf) / Well	6

Heavy oil (YTD bbls, in thous.)	NA
Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

Cı	rude Oil	NGL	Total
New reserves	0	-1	-1
Production	6	0	6
Net annual chang	e -6	-1	-7
Proved reserves	31	3	34

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	l Non-	Dry
	Dissolved	Associated	Gas
New reserves	-3	1,307	1,305
Production	4	265	269
Net annual chan	ge -7	1,042	1,306
Proved reserves	37	3,269	3,305

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	223	860,273	49,896
Gas	299	1,972,178	1,423,912
Dry	190	1,083,650	54,182

Marginal oil wells

Producing marginal wells	2,263
Crude oil production in bbls. (thous.)	2,898
Crude oil production b/d (thous.)	8

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	2,996
Natural gas production (MMcf)	39,750

Mineral Lease Royalties, Bonuses & Rent

Oil	\$	219
Gas	\$ 7,1	15,423
Total Royalties	\$25.5	63 789

Horizontal wells drilled 443

Average number of employees

Oil and natural gas extraction	4,772
Refining	981
Transportation	1,759
Wholesale	2,299
Retail	12,395
Pipeline construction	614
Oilfield machinery	0
Total petroleum industry	22,820

In 2007, over 70 wells were completed in Gravel Hill Field in Arkansas. The production has increased over 1000% from 2004-2007.

CALIFORNIA



Background Information

Counties

Number of counties	58
With oil and/or gas production	28

First year of production

Crude oil 1861 1889 Natural gas

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 24,426 Natural gas 18,114

Year and depth of deepest well drilled (ft.)

1993 24,426

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells 147,364 79% Gas wells 6,353 3% Dry holes 33,623 18% Total 187,388 100%

Cumulative crude oil wellhead value

\$224,932,665 as of 12/31/07 (thous. \$)

Cumulative production & new reserves as of 12/31/07

Crude NGL Natural (mill. bbls.) Total Oil Gas (Bcf) Reserves 31,182 1,558 32,740 46,420 Production 24,828 1,402 26,230 36,746

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.) \$64.73 Natural gas (\$Mcf) \$ 6.62

Wellhead value of production (2007, in thous. \$)

Crude oil \$14,032,040 Natural gas \$ 2.033.399 Total \$16,065,439

Average natural gas price

(2007, \$/IVICI)	
Residential consumers	\$11.57
Commercial consumers	\$10.20
Industrial consumers	\$ 9.07
Electric utilities	\$ 6.72
City Gate	\$ 6.82

Severance taxes paid \$471,185 (2007, in thous. \$)

Top 10 Producing Counties

(2007 on a BOE basis)

County	% Production	
	State	US
Kern	71.62	3.48
Los Angeles	7.09	0.26
Los Angeles Offshore	4.77	0.18
Ventura	3.05	0.12
Fresno	2.66	0.10
Monterey	1.53	0.06
Orange	1.09	0.04
Orange Offshore	1.03	0.04
Sacramento	0.98	0.04
Solano	0.87	0.03

Number	of wollo	drillad
Number	or wells	arillea

	Exploratory	Development	Total
Oil	4	2,114	2,118
Gas	2	155	157
Dry	18	74	92
Total	24	2,343	2,367

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	19.2	4,984.6	5,003.9
Gas	13.9	1,052.4	1,066.3
Dry	98.2	418.6	516.7
Total	131.3	6,455.6	6,586.9
(Note: Totals may not add due to rounding.)			

New-field wildcats drilled	1
Footage (thous. ft.)	54.0

Average rotary rigs active	35

Permits	3.683

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	3rd	19th
Production	4th	11th
Reserves (2007)	2nd	7th

Number of operators 393

Number of producing wells

 (12/31/07)

 Crude oil
 50,591

 Natural gas
 1,806

 Total
 52,397

Average production

Crude oil (thous. b/d) 597
NGL (thous. b/d) 0.8
Natural gas (MMcf/day) 246

Total production

Crude oil (YTD bbls, in thous.) 217,986 Natural gas (YTD MMcf) 89,845

Natural gas marketed production

(MMcf) 307,160

Average output per producing well

Crude oil (bbls.)	4,309
Natural gas (Mcf)	49.748

Coalbed methane (YTD MMcf) NA

Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.)	210,992
Wells	46,022
Av. bbls per day	575.6
Av. bbls per well/d	4.565

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	153	5	158
Production	220	11	231
Net annual char	nge -67	-6	-73
Proved reserves	3.322	126	3.448

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	201	7	199
Production	163	101	253
Net annual cha	nge 38	-94	-54
Proved reserve	s 2,193	686	2,640

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	550	1,299,972	2,753,340
Gas	228	1,548,347	243,090
Dry	408	2,289,843	210,666

Marginal oil wells

Producing marginal wells	37,399
Crude oil production in bbls. (thous.)	70,860
Crude oil production b/d (thous.)	194

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	899
Natural gas production (MMcf)	11,405

Mineral Lease Royalties, Bonuses & Rent

Oil	\$ 91,951,021
Gas	\$ 4,176,640
Total Royalties	\$ 111,531,542

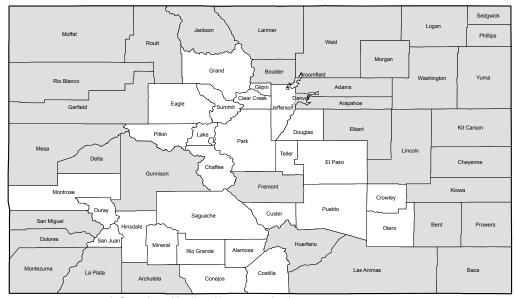
Horizontal wells drilled 196

Average number of employees

Oil and natural gas extraction	19,174
Refining	13,835
Transportation	4,003
Wholesale	10,943
Retail	53,475
Pipeline construction	8,337
Oilfield machinery	2,314
Total petroleum industry	112,081

Oil production has remained consistent in Midway-Sunset Field. The field was first discovered in 1900 and continues to be the highest producing oil field in California.

Colorado



O Counties with oil and/or gas production

Background Information

Counties

Number of counties	63
With oil and/or gas production	37

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 — 1,242,571 MMcf 2007

Deepest producing well (ft.)

Crude oil 12,651 Natural gas 18,535

Year and depth of deepest well drilled (ft.)

1987 22,092

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells 13,569 18% Gas wells 38,069 49% Dry holes 25,602 33% 100% Total 77,240

Cumulative crude oil wellhead value

\$24,337,812 as of 12/31/07 (thous. \$)

Cumulative production & new reserves as of 12/31/07

Crude NGL Natural (mill. bbls.) Total Oil Gas (Bcf) Reserves 2,249 1,128 3,377 40,432 Production 1,969 556 2,525 17,820

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.) \$67.04 Natural gas (\$Mcf) \$ 4.57

Wellhead value of production

(2007, in thous. \$)

Crude oil \$1,557,808 Natural gas \$5.678.549 Total \$7,236,357

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$ 8.84
Commercial consumers	\$ 8.10
Industrial consumers	\$ 7.21
Electric utilities	\$ 4.35
City Gate	\$ 6.23

Severance taxes paid \$126,244

(2007, in thous. \$)

Top 10 Producing Counties

(2007 on a BOE basis)

County	% Prod	% Production	
	State	US	
La Plata	31.14	1.15	
Garfield	30.76	1.11	
Weld	12.93	0.47	
Las Animas	8.59	0.31	
Rio Blanco	5.32	0.19	
Yuma	3.14	0.11	
Mesa	2.00	0.07	
San Miguel	1.33	0.05	
Moffat	1.25	0.05	
Cheyenne	0.79	0.03	

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	Exploratory	Development	Total
Oil	3	43	46
Gas	115	3,121	3,236
Dry	53	105	158
Total	171	3,269	3,440

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	6.4	267.1	273.5
Gas	576.4	19,244.1	19,820.5
Dry	210.2	488.7	658.9
Total	793.0	19,959.9	20,752.8
(Note: 7	otals may not add	due to rounding.)	•

New-field wildcats drilled	125
Footage (thous. ft.)	607.3

Average rotary rigs active 107

Permits 5,593

Statewide rank

Crude Oil	Natural Gas
18th	8th
12th	7th
12th	9th
	18th 12th

Number of operators 349

Number of producing wells

 (12/31/07)

 Crude oil
 4,999

 Natural gas
 31,920

 Total
 36,919

Average production

 Crude oil (thous. b/d)
 29

 NGL (thous. b/d)
 36.6

 Natural gas (MMcf/day)
 3,488

Total production

Crude oil (YTD bbls, in thous.) 10,756 Natural gas (YTD MMcf) 1,273,254

Natural gas marketed production

(MMcf) 1,242,571

Average output per producing well

Crude oil (bbls.) 2,152 Natural gas (Mcf) 39,889

Coalbed methane (YTD MMcf) 509,218

 Oil Wells
 0

 Gas Wells
 4,615

 Daily Average (MMcf) / Well
 1,395

Heavy oil (YTD bbls, in thous.) 221 Wells 99

 Wells
 99

 Av. bbls per day
 0.6

 Av. bbls per well/d
 2,234

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	49	114	163
Production	19	33	52
Net annual cha	nge 30	81	111
Proved reserve	s 304	559	863

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	401	5,761	6,028
Production	104	1,260	1,326
Net annual cha	inge 297	4,501	4,702
Proved reserve	es 1,838	20,642	21,851

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	279	1,658,573	76,294
Gas	471	2,885,843	9,338,587
Dry	209	871,098	137,634

Marginal oil wells

Producing marginal wells	4,275
Crude oil production in bbls. (thous.)	3,611
Crude oil production b/d (thous.)	10

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	22,939
Natural gas production (MMcf)	259,934

Mineral Lease Royalties, Bonuses & Rent

Oil	\$ 34,280,252
Gas	\$303,705,886
Total Royalties	\$424,495,314

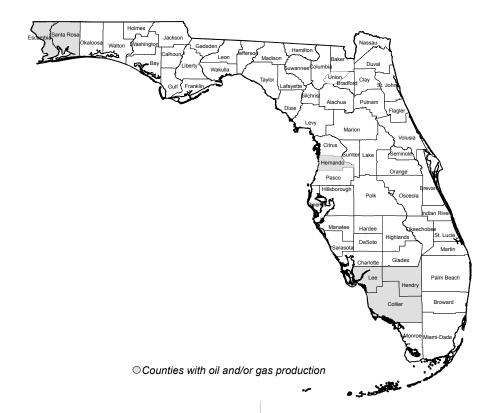
Horizontal wells drilled 20

Average number of employees

Oil and natural gas extraction	19,644
Refining	586
Transportation	1,908
Wholesale	2,144
Retail	12,826
Pipeline construction	2,819
Oilfield machinery	170
Total petroleum industry	40,097

Ignacio-Blano Field produces over 30% of the gas in Colorado. This field was first discovered in 1942.

FLORIDA



Background Information

Counties

Number of counties	67
With oil and/or gas production	6

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	18,806
Natural gas	17,452

Year and depth of deepest well drilled (ft.)

2002

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells 319 27% Gas wells 3 0% Dry holes 889 73% Total 1,211 100%

Cumulative crude oil wellhead value

\$9,352,458 as of 12/31/07 (thous. \$)

Cumulative production & new reserves

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	714	82	796	719
Production	681	86	767	600

Value of Oil and Gas

Average wellhead price

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

Wellhead value of production (2007, in thous. \$)

Crude oil	NA
Natural gas	NA
Total	NA

Average natural gas price (2007, \$/Mcf)

Residential consumers	\$20.61
Commercial consumers	\$13.07
Industrial consumers	\$10.56
Electric utilities	\$ 9.35
City Gate	\$ 7.97
•	

Severance taxes paid \$9,288 (2007, in thous. \$)

County	% Prod	% Production	
•	State	US	
Santa Rosa	49.07	0.02	
Collier	23.87	< 0.01	
Escambia	12.75	<0.01	
Hendry	6.92	<0.01	
Lee	4.75	<0.01	
Hernando	2.64	< 0.01	

Number	of	wells	drilled
NULLIDE	O.	WCIIO	unincu

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	NA	NA
Total	NA	NA	NA

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	NA	NA
Total	NA	NA	NA
(Note: 7	Totals may not add o	due to rounding.)	
			NA NA

Average rotary rigs active

Permits 2

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	29th	34th
Production	23rd	26th
Reserves (2007)	21st	24th

Number of operators

Number of producing wells

 (12/31/07)
 64

 Crude oil
 64

 Natural gas
 0

 Total
 64

Average production Crude oil (thous. b/d) 6 NGL (thous. b/d) 0 Natural gas (MMcf/day) 0

Total production

Crude oil (YTD bbls, in thous.) 2,080 Natural gas (YTD MMcf) 0

Natural gas marketed production

(MMcf) 1,778

Average output per producing well

Crude oil (bbls.)	32,499
Natural gas (Mcf)	0

Coalbed methane (YTD MMcf) N

Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.)	NA
Wells	NA

Av. bbls per day NA
Av. bbls per well/d NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

С	rude Oil	NGL	Total
New reserves	-3	-1	-4
Production	3	0	3
Net annual chang	je -6	-1	-7
Proved reserves	32	2	34

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	64	0	67
Production	4	0	4
Net annual cha	nge 60	0	63
Proved reserve	s 110	0	108

Cost of drilling and equipping wells

	Cost/ft.	Cost/ To	tal Cost
	(\$)	well (\$) (t	hous. \$)
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	NA	NA

Marginal oil wells

Producing marginal wells	12
Crude oil production in bbls. (thous.)	37
Crude oil production b/d (thous.)	0

Marginal natural gas wells

as of 12/31/07

Producing marginal wells 0
Natural gas production (MMcf) 0

Mineral Lease Royalties, Bonuses & Rent

Oil	
Gas	
Total Royalties	\$9,974

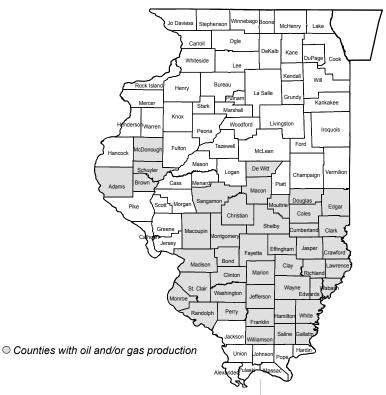
Horizontal wells drilled NA

Average number of employees

Oil and natural gas extraction	1,455
Refining	423
Transportation	2,011
Wholesale	6,704
Retail	40,191
Pipeline construction	1,036
Oilfield machinery	0
Total petroleum industry	51,820

Jay Field in Florida produced over 25 million barrels of oil in 1973. Still the highest producing field in Florida, over 1 million barrels were produced in 2007.

ILLINOIS



Background Information

Counties

Number of counties	102
With oil and/or gas production	43

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	NA
Natural gas	NA

Year and depth of deepest well drilled (ft.)

1976 14.942

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	64,798	55%
Gas wells	1,244	1%
Dry holes	51,619	44%
Total	117,664	100%

Cumulative crude oil wellhead value

\$22,048,689 as of 12/31/07 (thous. \$)

Cumulative production & new reserves

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	3,615	NA	3,615	NA
Production	3,554	NA	3,554	NA

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$65.66
Natural gas (\$Mcf)	NA

Wellhead value of production (2007, in thous. \$)

Crude oil	\$630,927
Natural gas	NA
Total	\$630,927

Average natural gas price (2007, \$/Mcf)

Residential consumers	\$10.76
Commercial consumers	\$10.40
Industrial consumers	\$ 9.00
Electric utilities	\$ 7.26
City Gate	\$ 7.87

Severance taxes paid

(2007, in thous. \$)

County	%	Production
	State	US
Marion	12.18	0.02
White	11.02	0.02
Crawford	10.46	0.02
Lawrence	8.39	0.01
Clay	7.28	0.01
Fayette	6.61	<0.01
Wayne	5.86	<0.01
Richland	3.71	<0.01
Franklin	3.44	<0.01
Wabash	3.40	<0.01

Num	her	Ωf	well	le	dril	led
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	Exploratory	Development	Total
Oil	14	188	202
Gas	NA	68	68
Dry	70	97	167
Total	84	353	437

Total footage drilled

(thous, ft.)

	Exploratory	Development	Total
Oil	41.6	478.9	520.6
Gas	NA	60.8	60.8
Dry	181.1	235.9	417.0
Total	222.8	775.6	998.4
(Note: 7	otals may not add o	due to roundina.)	

New-field wildcats drilled	24
Footage (thous. ft.)	59.8

Average rotary rigs active

Permits 743

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	6th	23rd
Production	15th	31st
Reserves (2007)	10th	NA

Number of operators 826

Number of producing wells*

 (12/31/07)

 Crude oil
 16,020

 Natural gas
 43

 Total
 16,063

Average production

Crude oil (thous. b/d)	26
NGL (thous. b/d)	0
Natural gas (MMcf/day)	NA

Total production

Crude oil (YTD bbls, in thous.)	9,609
Natural gas (YTD MMcf)	0

Natural gas marketed production

(MMcf) 169

Average output per producing well

Crude oil (bbls.)	NA
Natural gas (Mcf)	NA

Coalbed methane (YTD MMcf) NA

Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.)

Wells NA
Av. bbls per day NA
Av. bbls per well/d NA

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

C	rude Oil	NGL	Total
New reserves	20	NA	20
Production	8	NA	8
Net annual chang	ge 12	NA	12
Proved reserves	101	NA	101

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	NA	NA	NA
Production	NA	NA	NA
Net annual chang	e NA	NA	NA
Proved reserves	NA	NA	NA

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	250	643,315	129,950
Gas	645	576,923	39,231
Dry	205	510,763	85,297

Marginal oil wells

Producing marginal wells	7,060
Crude oil production in bbls. (thous.)	5,780
Crude oil production b/d (thous.)	16

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	0
Natural gas production (MMcf)	0

Mineral Lease Royalties, Bonuses & Rent

Oil	\$248,808
Gas	
Total Royalties	\$248,808

Horizontal wells drilled 0

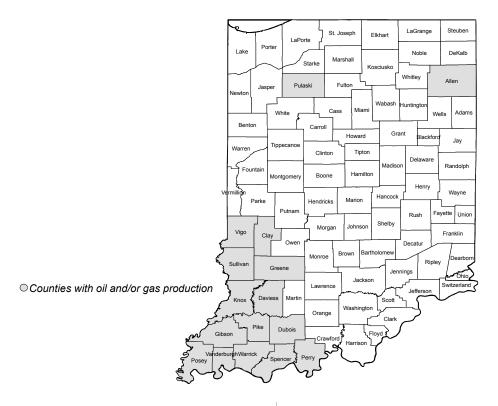
Average number of employees

Oil and natural gas extraction	2,649
Refining	4,499
Transportation	5,894
Wholesale	5,595
Retail	26,810
Pipeline construction	1,154
Oilfield machinery	21
Total petroleum industry	46,622

Discovered in the early 1930s, Clay City Consolidated Field remains the top producing oil field in the state of Illinois. 33 wells were completed in 2007 with over 1 million barrels produced.

Source: For specific methodology and source details, please see pages 6 and 127. * World Oil for Number of producing wells.

INDIANA



Background Information

Counties

Number of counties	92
With oil and/or gas production	16

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 — 3,606 MMcf	2007

Deepest producing well (ft.)

Crude oil	NA
Natural gas	NA

Year and depth of deepest well drilled (ft.)

1998	8	,429

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	6,373	36%
Gas wells	1,177	6%
Dry holes	10,362	58%
Total	17,912	100%

Cumulative crude oil wellhead value

\$3,662,793 as of 12/31/07 (thous. \$)

Cumulative production & new reserves

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	559	NA	559	NA
Production	548	NA	548	NA

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$65.47
Natural gas (\$Mcf)	\$ 5.78

Wellhead value of production (2007, in thous. \$)

Crude oil	\$ 113,067
Natural gas	\$ 20,843
Total	\$133,910

Average natural gas price (2007, \$/Mcf)

Residential consumers	\$11.29
Commercial consumers	\$10.20
Industrial consumers	\$ 8.45
Electric utilities	\$ 7.48
City Gate	\$ 7.83
-	

Severance taxes paid \$1,350 (2007, in thous. \$)

County	% Produ	ıction
	State	US
Posey	33.50	0.01
Gibson	24.84	<0.01
Pike	8.26	< 0.01
Greene	6.11	< 0.01
Daviess	5.78	< 0.01
Spencer	5.10	< 0.01
Knox	4.54	<0.01
Vanderburgh	3.89	< 0.01
Vigo	3.22	<0.01
Sullivan	2.50	<0.01

Number	of	wells	drilled

	Exploratory	Development	Total
Oil	2	37	39
Gas	11	15	26
Dry	20	28	48
Total	33	80	113

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	5.6	65.0	70.6
Gas	30.7	18.3	49.0
Dry	31.8	44.8	76.6
Total	68.1	128.1	196.2
(Note: Totals may not add due to rounding.)			

New-field wildcats drilled 15 Footage (thous. ft.) 26.8

Average rotary rigs active

Permits 339

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	22nd	24th
Production	24th	25th
Reserves (2007)	23rd	NA

Number of operators 229

Number of producing wells*

(12/31/07)	
Crude oil	4,785
Natural gas	1,056
Total	5,841

Average production

Crude oil (thous. b/d)	5
NGL (thous. b/d)	0
Natural gas (MMcf/day)	NA

Total production

Crude oil (YTD bbls, in thous.)	1,723
Natural gas (YTD MMcf)	0

Natural gas marketed production

(MMcf)	3,606

Average output per producing well

Crude oil (bbls.)	600
Natural gas (Mcf)	NA
Coalbed methane (YTD MMcf)	NA

Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.)	NA
Wells	N/
Av. bbls per day	N/

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

С	rude Oil	NGL	Total
New reserves	7	NA	7
Production	2	NA	2
Net annual change	5	NA	5
Proved reserves	17	NA	17

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non- Associated	Dry Gas
	Dissolved	Associated	Gas
New reserves	NA	NA	NA
Production	NA	NA	NA
Net annual chang	ge NA	NA	NA
Proved reserves	NA	NA	NA

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	204	368,685	14,379
Gas	740	1,393,446	36,230
Dry	253	403,749	19,380

Marginal oil wells

Producing marginal wells	1,790
Crude oil production in bbls. (thous.)	1,372
Crude oil production b/d (thous.)	4

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral Lease Royalties, Bonuses & Rent

Oil	
Gas	
Total Royalties	\$32,069

Horizontal wells drilled 9

Average number of employees

Oil and natural gas extraction	512
Refining	3,444
Transportation	3,433
Wholesale	3,459
Retail	23,398
Pipeline construction	1,150
Oilfield machinery	131
Total petroleum industry	35,527

Griffin Consolidated Field produces over 11% of the total oil production in Indiana. The number of barrels produced is less than 50% of the production in 1980.

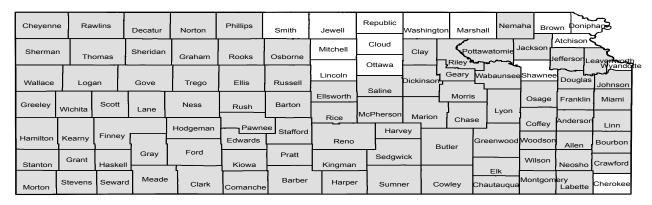
Source: For specific methodology and source details, please see pages 6 and 127.

NA

Av. bbls per well/d

^{*} World Oil for Number of producing wells.

KANSAS



O Counties with oil and/or gas production

Background Information

Counties

Number of counties	105
With oil and/or gas production	90

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 8,812 Natural gas 28,780

Year and depth of deepest well drilled (ft.)

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

47% Oil wells 128.215 Gas wells 34.678 13% Dry holes 109,541 40% Total 272,434 100%

Cumulative crude oil wellhead value

\$51,203,561 as of 12/31/07 (thous. \$)

Cumulative production & new reserves as of 12/31/07

Crude NGL Natural Oil (mill. bbls.) Total Gas (Bcf) Reserves 6,397 1,460 7,857 44,961 Production 6,187 1,322 7,509 40,750

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.) \$66.85 Natural gas (\$Mcf) \$ 5.69

Wellhead value of production

(2007, in thous. \$)

Crude oil \$2,439,357 Natural gas \$2,081,840 \$4,521,197 Total

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$12.97
Commercial consumers	\$12.03
Industrial consumers	\$ 7.17
Electric utilities	\$ 6.31
City Gate	\$ 8.27

Severance taxes paid \$131,217 (2007, in thous. \$)

Top 10 Producing Counties (2007 on a BOE basis)

County % Production US State Stevens 11.76 0.02 Grant 7.12 0.01 Kearny 6 47 0.01 Haskell 0.01 6.22 Finney 5.42 0.01 Morton 4.63 < 0.01 Seward 4.51 <0.01 Barber 3.61 < 0.01 Ellis 3.30 < 0.01 Stanton 2.85 < 0.01

	Exploratory	Development	Total
Oil	174	1,031	1,205
Gas	44	1,195	1,239
Dry	261	544	805
Total	479	2,770	3,249

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	716.0	3,374.1	4,090.0
Gas	193.7	2,074.5	2,268.2
Dry	1,124.9	2,094.5	3,219.4
Total	2,034.6	7,543.1	9,577.6
(Note: 7	Totals may not add	due to rounding.)	
_	-field wildcat ge (thous. ft.)	s drilled	261 1,109.3

Average rotary rigs active

Permits 5.120

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	4th	9th
Production	10th	10th
Reserves (2007)	9th	8th

Number of operators 2,070

Number of producing wells

(12/31/07)	
Crude oil	40,782
Natural gas	20,978
Total	61,750

Average production

Crude oil (thous. b/d)	100
NGL (thous. b/d)	0
Natural gas (MMcf/day)	1,019

Total production

. ota. p. ou a ou ou	
Crude oil (YTD bbls, in thous.)	36,434
Natural gas (YTD MMcf)	371.782

Natural gas marketed production

(MMcf) 365,877

Average output per producing well

Crude oil (bbls.)	893
Natural gas (Mcf)	17,722

Coalbed methane (YTD MMcf) 35,62

7
3,086
98

Heavy oil (YTD bbls, in thous.)	NA
Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

(Crude Oil	NGL	Total
New reserves	-21	8	-13
Production	36	19	55
Net annual chan	ge -57	-11	-68
Proved reserves	206	198	404

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	10	427	412
Production	9	377	361
Net annual char	nge 1	50	51
Proved reserves	83	4,165	3,982

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	131	443,363	534,252
Gas	176	322,674	399,793
Dry	72	288,419	232,177

Marginal oil wells

Producing marginal wells	39,908
Crude oil production in bbls. (thous.)	24,772
Crude oil production b/d (thous.)	68

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	18,776
Natural gas production (MMcf)	250,779

Mineral Lease Royalties, Bonuses & Rent

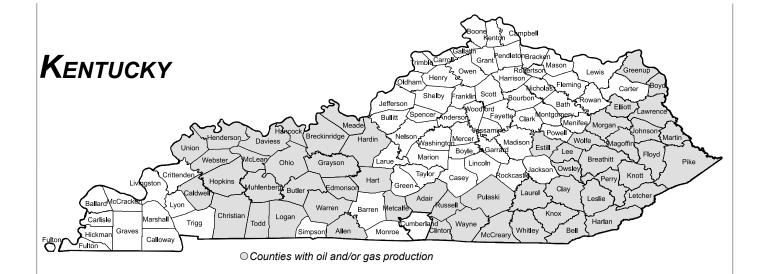
Oil	\$3,039,348
Gas	\$5,295,471
Total Royalties	\$8,332,043

Horizontal wells drilled 28

Average number of employees

Oil and natural gas extraction	8,424
Refining	1,931
Transportation	2,577
Wholesale	2,032
Retail	10,187
Pipeline construction	1,403
Oilfield machinery	0
Total petroleum industry	26,554

Over 44% of the gas production in Kansas comes from the Kansas Hugoton Field. This field was first discovered in the early 1920s.



Background Information

Counties

Number of counties	120
With oil and/or gas production	51

First year of production

Crude oil	1860
Natural gas	1888

Year and amount of peak production

Crude oil — 27,272 thous. bbls.	1959
Natural gas — 96,459 MMcf	1947

Deepest producing well (ft.)

Crude oil	NA
Natural gas	NA

Year and depth of deepest well drilled (ft.)

2000 24,591

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	22,131	31%
Gas wells	17,404	25%
Dry holes	31,702	45%
Total	71,237	100%

Cumulative crude oil wellhead value

\$17,724,891 as of 12/31/07 (thous. \$)

Cumulative production & new reserves

40 01 12/0 1/07				
	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	770	259	1,029	7,651
Production	760	158	918	5,357

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$63.60
Natural gas (\$Mcf)	\$ 7.35

Wellhead value of production

(2007, in thous. \$)

Crude oil	\$ 169,558
Natural gas	\$ 701,462
Total	\$ 871 920

Average natural gas price

(2007, \$/Mcf)

Residential consumers Commercial consumers	\$12.05 \$11.30
Industrial consumers	\$ 8.37
Electric utilities	NA
City Gate	\$ 8.22

Severance taxes paid \$38,538

(2007, in thous. \$)

County	% Produ	% Production	
	State	US	
Henderson	31.42	<0.01	
Union	25.69	<0.01	
Muhlenberg	9.92	<0.01	
Hopkins	8.13	<0.01	
Webster	7.10	<0.01	
Daviess	6.51	<0.01	
Ohio	4.89	<0.01	
McLean	3.71	<0.01	
Christian	1.44	<0.01	
Hancock	0.43	<0.01	

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	Exploratory	Development	Total
Oil	40	207	247
Gas	306	488	794
Dry	73	155	228
Total	419	850	1,269

Total footage drilled

(thous ft)

	Exploratory	Development	Total
Oil	66.0	302.4	368.4
Gas	984.0	1,694.4	2,678.3
Dry	130.1	234.1	364.2
Total	1,180.2	2,230.8	3,411.0
(Note: Totals may not add due to rounding.)			

New-field wildcats drilled 176 Footage (thous. ft.) 473.7

Average rotary rigs active

Permits	1.971

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	11th	12th
Production	21st	19th
Reserves (2007)	20th	19th

Number of operators 265

Number of producing wells

(12/31/07)	
Crude oil*	17,447
Natural gas	16,140
Total*	33,587

Average production

Crude oil (thous. b/d)	3
NGL (thous. b/d)	(
Natural gas (MMcf/day)	261

Total production

Crude oil (YTD bbls, in thous.)	2,617
Natural gas (YTD MMcf)	0

Natural gas marketed production

(MMcf)	95,4	437

Average output per producing well

Crude oil (bbls.)	0
Natural gas (Mcf)	5,901

Coalbed methane (YTD MMcf)	NA
Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Daily Average (MMcf) / Well	NA
Heavy oil (YTD bbls, in thous.)	NA
Welle	NΔ

Source: For specific methodology and source details, please see pages 6 and 127. * World Oil for Number of producing wells.

NA

NA

2007 Latest Available Data

Petroleum reserves as of 12/31/07 (mill. bbls.)

Crud	de Oil	NGL	Total
New reserves	1	-13	-12
Production	2	3	5
Net annual change	-1	-16	-17
Proved reserves	24	89	113

Natural gas reserves

as of 12/31/07 (Bcf)

	sociated ssolved	Non- Associated	Dry Gas
New reserves	-2	305	322
Production	0	84	80
Net annual change	-2	221	242
Proved reserves	34	2,554	2,469

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	198	295,089	72,887
Gas	132	446,425	354,461
Dry	195	311,317	70,980

Marginal oil wells

Producing marginal wells	1,375
Crude oil production in bbls. (thous.)	773
Crude oil production b/d (thous.)	2

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral Lease Royalties, Bonuses & Rent

Oil	\$	6,910
Gas	\$	111,139
Total Royalties	\$ 2	2,385,649

Horizontal wells drilled 11

Average number of employees

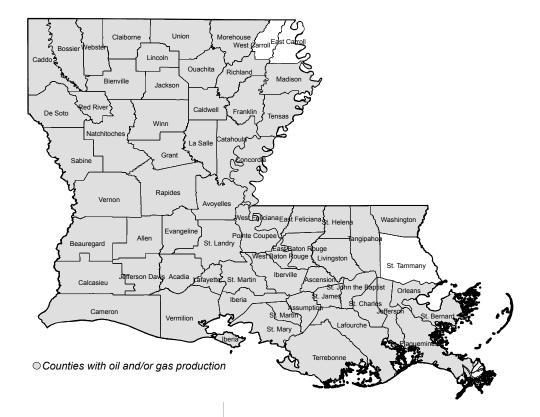
Oil and natural gas extraction	2,419
Refining	1,132
Transportation	1,745
Wholesale	3,134
Retail	18,782
Pipeline construction	1,014
Oilfield machinery	0
Total petroleum industry	28,226

Gas production in Catron Creek Field has increased 300% from 1997 through 2007. This accounts for 12% of the total gas production in the state of Kentucky.

Av. bbls per day

Av. bbls per well/d

Louisiana



Background Information

Counties

Number of counties	64
With oil and/or gas production	61

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	23,903

Year and depth of deepest well drilled (ft.)

1981 25,703

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	82,471	40%
Gas wells	48,020	23%
Dry holes	75,635	37%
Total	206,126	100%

Cumulative crude oil wellhead value

\$265,851,830 as of 12/31/07 (thous. \$)

Cumulative production & new reserves

	Crude	NGL		Natural
	Oil	(mill. bbls.) Total	Gas (Bcf)
Reserves	27,822	6,378	34,200	268,129
Production	18,708	4,605	23,313	147,610

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$71.63
Natural gas (\$Mcf)	\$ 7.02

Wellhead value of production (2007, in thous. \$)

Crude oil	\$ 5,456,081
Natural gas	\$ 9,572,037
Total	\$ 15,028,055

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$ 14.19
Commercial consumers	\$ 11.21
Industrial consumers	\$ 7.07
Electric utilities	\$ 7.53
City Gate	\$ 7.22

Severance taxes paid \$981,229 (2007, in thous. \$)

% Production	
State	US
11.20	0.62
8.66	0.37
8.13	0.35
6.37	0.27
6.24	0.27
5.84	0.25
5.57	0.24
5.03	0.22
4.36	0.19
4.26	0.18
	State 11.20 8.66 8.13 6.37 6.24 5.84 5.57 5.03 4.36

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	Exploratory	Development	Total
Oil	2	239	241
Gas	9	1,026	1,035
Dry	54	300	354
Total	65	1,565	1,630

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	7.3	1,500.1	1,507.4
Gas	85.9	10,035.6	10,121.5
Dry	447.2	2,597.0	3,044.1
Total	540.4	14,132.6	14,673.0
(Note: 7	otals may not add	due to roundina.)	•

New-field wildcats drilled	50
Footage (thous. ft.)	425.5

Average rotary rigs active 177

Permits 2,502

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	5th	5th
Production	5th	6th
Reserves (2007)	3rd	2nd

Number of operators 1,038

Number of producing wells

 (12/31/07)

 Crude oil
 17,751

 Natural gas
 11,245

 Total
 28,996

Average production

 Crude oil (thous. b/d)
 144

 NGL (thous. b/d)
 68.3

 Natural gas (MMcf/day)
 3,506

Total production

Crude oil (YTD bbls, in thous.) 52,528 Natural gas (YTD MMcf) 1,279,855

Natural gas marketed production

(MMcf) 1,363,538

Average output per producing well

Crude oil (bbls.) 2,959 Natural gas (Mcf) 113,815

Coalbed methane (YTD MMcf) NA
Oil Wells NA
Gas Wells NA
Daily Average (MMcf) / Well NA

 Heavy oil (YTD bbls, in thous.)
 24,739

 Wells
 10,910

 Av. bbls per day
 67.8

 Av. bbls per well/d
 2,268

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

С	rude Oil	NGL	Total
New reserves	84	73	157
Production	54	50	104
Net annual change	30	23	53
Proved reserves	458	303	761

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	144	732	828
Production	64	1,230	1,257
Net annual char	nge 80	-489	-429
Proved reserves	641	9,651	10,045

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	822	5,139,690	1,238,665
Gas	586	5,734,570	5,935,280
Dry	526	4,526,366	1,602,334

Marginal oil wells

Producing marginal wells	15,528
Crude oil production in bbls. (thous.)	9,894
Crude oil production b/d (thous.)	27

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	5,146
Natural gas production (MMcf)	50,148

Mineral Lease Royalties, Bonuses & Rent

Oil	\$ 4,525,481
Gas	\$29,650,858
Total Royalties	\$34 527 948

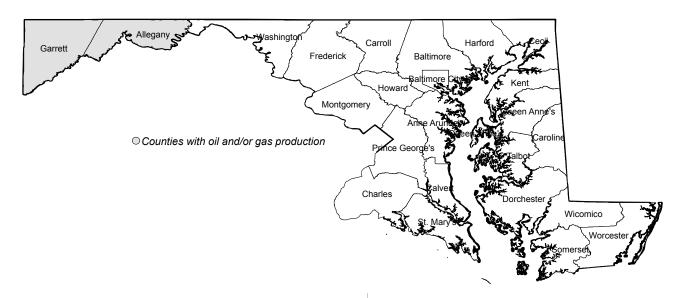
Horizontal wells drilled 22

Average number of employees

Oil and natural gas extraction	47,260
Refining	10,552
Transportation	4,013
Wholesale	4,043
Retail	18,340
Pipeline construction	16,432
Oilfield machinery	0
Total petroleum industry	100,640

Discovered in 1916, Elm Grove Field in Louisiana is the top producing gas field in 2007. Over 170 wells were completed in 2007 to help add to the over 115 million MCFs of gas produced.

MARYLAND



Background Information

Counties

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

First year of production

Crude oil 1950 Natural gas

Year and amount of peak production

Crude oil -Natural gas - 4,543 MMcf 1959

Deepest producing well (ft.)

Crude oil NA Natural gas NA

Year and depth of deepest well drilled (ft.)

1973 11.617

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells NA NA Gas wells 88 46% Dry holes 102 54% 100% Total 190

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) NA

Cumulative production & new reserves as of 12/31/07

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

Value of Oil and Gas

Average wellhead price

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

Wellhead value of production

(2007, in thous. \$)

NA Crude oil Natural gas NA Total NA

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$15.17
Commercial consumers	\$12.30
Industrial consumers	\$11.59
Electric utilities	\$ 7.89
City Gate	\$ 9.24
•	

Severance taxes paid \$3 (2007, in thous. \$)

Top Producing Counties

(2007 on a BOE basis)

County	% Production	
	State	US
NA	NA	NA

2001	maasti	y Otalisti	UJ
Numbe	er of wells	drilled	
Е	xploratory	Developme	nt Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	NA	NA
Total	NA	NA	NA
Total fo	ootage dril	lod	
(thous. ft.)	olage uni	ieu	
E	xploratory	Developme	nt Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	NA	NA
Total	NA	NA	NA
	eld wildcat (thous. ft.)	s drilled	NA NA
Averag	je rotary ri	gs active	1
Permits	S		1
Statew	ide rank	0 1 0"	N 1 10
Wells dr	illod	Crude Oil NA	Natural Gas 29th
Producti		NA NA	32nd
	es (2007)	NA NA	NA
T C S C I V C	.3 (2001)	IVA	IVA
Numbe	er of opera	tors	
Numbe	er of produ	cing wells	
(12/31/07)	•	· ·	
Crude o			NA
Natural	gas		NA
Total			NA
Averag	je producti	ion	
Crude o	il (thous. b/d	1)	NA
	ous. b/d)	•	NA
Natural	gas (MMcf/d	lay)	NA
Total p	roduction		
Crude o	il (YTD bbls,	, in thous.)	NA
	gàs (YTD M		NA
Notura	l ago mark	otad pradu	ation
	i gas iliaik	eted produc	
(MMcf)			35
Averag	e output p	er producin	g well
_		•	NA
Crude o	gas (Mcf)		NA NA
ivaturar	gas (IVICI)		INA
Coalbe	d methan	e (YTD MMcf)	NA
Oil Wells	S		NA
Gas We			NA
	erage (MMc	f) / Well	NA
11-	-!! 0 ::		
•	OII (YTD bb	ls, in thous.)	NA
Wells			NA
Av. bbls			NA
Av. bbls	per well/d		NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum res			
	Crude Oil	NGL	Total
New reserves	NA	NA	NA
Desdination	N I A	NIA	N I A

Crude Oil	NGL	Iotai
NA	NA	NA
NA	NA	NA
nge NA	NA	NA
s NA	NA	NA
	NA NA inge NA	NA NA NA NA NA NA NA NA

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	NA	NA	NA
Production	NA	NA	NA
Net annual chang	ge NA	NA	NA
Proved reserves	NA	NA	NA

Cost of drilling and equipping wells

	•		
	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	NA	NA

Marginal oil wells

Producing marginal wells	NA
Crude oil production in bbls. (thous.)	NA
Crude oil production b/d (thous.)	NA

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	0
Natural gas production (MMcf)	0

Mineral Lease Royalties, Bonuses & Rent

Oil	
Gas	
Total Royalties	\$12,037

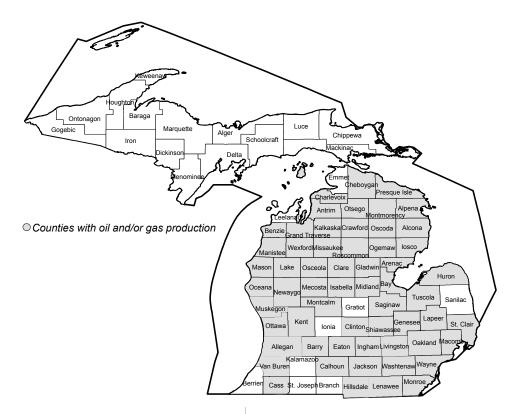
Horizontal wells drilled

Average number of employees

Oil and natural gas extraction	747
Refining	868
Transportation	678
Wholesale	3,497
Retail	10,068
Pipeline construction	793
Oilfield machinery	0
Total petroleum industry	16,651

The first exploration well was drilled in 1888 in the Cumberland Narrows. In 1944 there was first evidence of natural gas found in a well drilled on the Accident Dome in Garrett County. Later discoveries took place in four fields in the Appalachian region: Mountain Lake Park, Accident, Negro Mountain and Pennlands (Artemas). The Marcellus Shale covers the westernmost portion of the state.

MICHIGAN



Background Information

Counties

Number of counties	83
With oil and/or gas production	58

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 —311.616 MMcf	1997

Deepest producing well (ft.)

Crude oil	12,742
Natural gas	14.716

Year and depth of deepest well drilled (ft.)

17.466

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	15,288	27%
Gas wells	13,944	25%
Dry holes	26,716	48%
Total	55,948	100%

Cumulative crude oil wellhead value

\$15,146,776 as of 12/31/07 (thous. \$)

Cumulative production & new reserves

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	1,286	308	1,594	10,161
Production	1,242	238	1,480	5,744

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$66.87
Natural gas (\$Mcf)	\$ 8.46

Wellhead value of production (2007, in thous. \$)

Crude oil	\$ 347,791
Natural gas	\$2,241,113
Total	\$2,588,904

Average natural gas price (2007, \$/Mcf)

\$11.06
\$10.02
\$ 9.47
\$ 6.63
\$ 8.06

Severance taxes paid \$67,796 (2007, in thous. \$)

County	% Production	
	State	US
Otsego	23.74	0.15
Montmorency	22.74	0.11
Antrim	13.57	0.07
Alpena	7.40	0.04
Manistee	4.66	0.02
Oscoda	4.18	0.02
Kalkaska	3.12	<0.01
Crawford	1.97	<0.01
Charlevoix	1.85	<0.01
Missaukee	1.70	<0.01

		•			
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	Exploratory	Development	Total
Oil	7	34	41
Gas	5	388	393
Dry	20	28	48
Total	32	450	482

Total footage drilled

(thous, ft.)

	Exploratory	Development	Total
Oil	34.1	131.2	165.3
Gas	25.3	653.6	678.9
Dry	70.7	55.7	126.4
Total	130.1	840.5	970.6
(Note:	Totals may not add o	due to rounding.)	

New-field wildcats drilled 23 Footage (thous. ft.) 84.2

Average rotary rigs active 2

Permits 757

Statewide rank

Crude Oil	Natural Gas
14th	13th
19th	14th
18th	15th
	14th 19th

Number of operators 174

Number of producing wells

(12/31/07)	
Crude oil	3,875
Natural gas	9,792
Total	13,667

Average production

Crude oil (thous. b/d)	15
NGL (thous. b/d)	1.8
Natural gas (MMcf/day)	416

Total production

Crude oil (YTD bbls, in thous.)	5,394
Natural gas (YTD MMcf)	151,701

Natural gas marketed production

(MMcf) 264,907

Average output per producing well

Crude oil (bbls.)	1,392
Natural gas (Mcf)	15,492

Coalbed methane (YTD MMcf)	NA
Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.)	NA
Wells	NΔ

, - (,	
Wells	NA
Av. bbls per day	NA
Av bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

Cru	ude Oil	NGL	Total
New reserves	-3	16	13
Production	5	3	8
Net annual change	-8	13	5
Proved reserves	55	55	110

Natural gas reserves

as of 12/31/07 (Bcf)

Α	ssociated	Non-	Dry
[Dissolved	Associated	Gas
New reserves	4	757	749
Production	17	170	184
Net annual change	e -13	587	565
Proved reserves	179	3,512	3,630

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	544	2,191,083	89,834
Gas	673	1,162,914	457,025
Dry	347	914,246	43,884

Marginal oil wells

Producing marginal wells	3,232
Crude oil production in bbls. (thous.)	3,674
Crude oil production b/d (thous.)	9

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	9,220
Natural gas production (MMcf)	128,265

Mineral Lease Royalties, Bonuses & Rent

Oil	\$ 328,217
Gas	\$1,947,724
Total Royalties	\$2,363,496

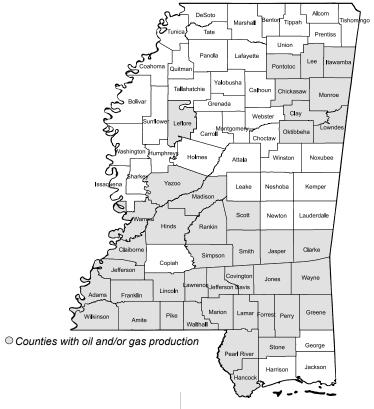
Horizontal wells drilled 67

Average number of employees

Oil and natural gas extraction Refining	2,603 1.134
Transportation	4,189
Wholesale	5,074
Retail	24,589
Pipeline construction	1,306
Oilfield machinery	0
Total petroleum industry	38,895

Antrim Field in Michigan was discovered in the late 1960s. By 2007, the field was producing almost 90% of the state's total gas.

MISSISSIPPI



Background Information

Counties

Number of counties	82
With oil and/or gas production	41

First year of production

Crude oil	1889
Natural gas	1923

Year and amount of peak production

Crude oil — 65,119 thous. bbls.	1970
Natural das — 221 331 MMcf	1988

Deepest producing well (ft.)

Crude oil	22,430
Natural gas	23,894

Year and depth of deepest well drilled (ft.)

1986 25,500

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	10,763	33%
Gas wells	4,146	12%
Dry holes	17,976	55%
Total	32,885	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$22,343,561

Cumulative production & new reserves as of 12/31/07

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	2,737	132	2,869	9,952
Production	2,562	150	2,712	9,063

Value of Oil and Gas

Average wellhead price (2007)

Crude oil (\$/bbl.)	\$68.65
Natural gas (\$Mcf)	\$ 6.70

Wellhead value of production (2007, in thous. \$)

Crude oil \$1,400,185 \$ 492,182 Natural gas \$1,892,367

Average natural gas price (2007, \$/Mcf)

\$13.02
\$ 11.11
\$ 8.29
\$ 7.43
\$ 8.47

Severance taxes paid \$8,364 (2007, in thous. \$)

County	% Production		
	State	US	
Rankin	42.18	0.56	
Jasper	7.64	0.08	
Madison	6.56	0.07	
Lincoln	5.94	0.06	
Wayne	5.48	0.06	
Jefferson Davis	5.24	0.05	
Jones	4.08	0.04	
Covington	3.51	0.04	
Lamar	3.33	0.03	
Pike	2.46	0.03	

Num	her	Ωf	well	le	dril	led
INUITI	וסט	OI.	WCI	ıo	un	ıcu

	Exploratory	Development	Total
Oil	3	88	91
Gas	8	153	161
Dry	41	39	80
Total	52	280	332

Total footage drilled

(thous, ft.)

	Exploratory	Development	Total
Oil	25.7	744.7	770.0
Gas	62.9	1,386.1	1,449.0
Dry	334.8	352.3	687.2
Total	423.0	2,483.1	2,906.1
(Note: 7	Totals may not add o	due to rounding.)	

New-field wildcats drilled	40
Footage (thous. ft.)	312.9

Average rotary rigs active	14

Permits	599
Permits	59

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	19th	21st
Production	13th	21st
Reserves (2007)	11th	16th

Number of operators 205

Number of producing wells

(12/31/07)	
Crude oil	1,93
Natural gas	1,714
Total	3,65

Average production

Crude oil (thous. b/d)	52
NGL (thous. b/d)	4
Natural gas (MMcf/day)	735

Total production

Crude oil (YTD bbls, in thous.)	19,034
Natural gas (YTD MMcf)	268,328

Natural gas marketed production

(MMcf)	73,460

Average output per producing well

Crude oil (bbls.)	9,826
Natural gas (Mcf)	156,551

Coalbed methane (YTD MMcf)	NA
Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.) 1,707

Wells	250
Av. bbls per day	4.7
Av. bbls per well/d	6,826

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

C	Crude Oil	NGL	Total
New reserves	36	2	38
Production	22	1	23
Net annual chang	e 14	1	15
Proved reserves	200	9	209

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	14	228	241
Production	5	95	100
Net annual chang	ge 9	133	141
Proved reserves	30	928	954

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	517	4,370,798	397,743
Gas	689	6,201,478	998,438
Dry	527	4,527,427	362,194

Marginal oil wells

Producing marginal wells	1,033
Crude oil production in bbls. (thous.)	2,324
Crude oil production b/d (thous.)	6

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	1,194
Natural gas production (MMcf)	16,053

Mineral Lease Royalties, Bonuses & Rent

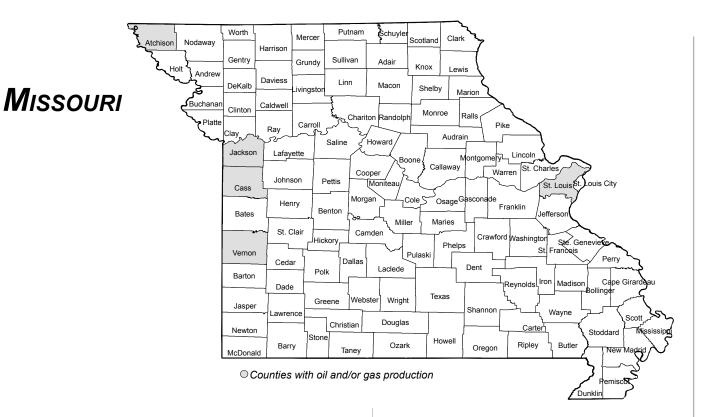
Oil	\$1,947,608
Gas	\$ 293,022
Total Royalties	\$6,006,381

Horizontal wells drilled 21

Average number of employees

Oil and natural gas extraction	5,480
Refining	1,953
Transportation	1,501
Wholesale	2,247
Retail	15,891
Pipeline construction	1,294
Oilfield machinery	76
Total netroleum industry	28 442

Discovered in 1946, Mallalieu West Field in Mississippi is the highest producing oil field in 2007.



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 —1,368 MMcf 1938

Deepest producing well (ft.)

Crude oil NA Natural gas NA

Year and depth of deepest well drilled (ft.)

1988 10,089

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

 Oil wells
 675
 32%

 Gas wells
 78
 4%

 Dry holes
 1,335
 64%

 Total
 2,088
 100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$109,908

Cumulative production & new reserves as of 12/31/07

Crude NGL Natural Oil (mill. bbls.) Total Gas (Bcf) NA NA Reserves NA NA Production 7 NA 7 15

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.) \$60.77 Natural gas (\$Mcf) NA

Wellhead value of production

(2007, in thous. \$)

Crude oil \$4,862 Natural gas NA Total \$4,862

Average natural gas price

(2007, \$/Mcf)

Residential consumers \$13.42
Commercial consumers \$11.82
Industrial consumers \$11.02
Electric utilities NA
City Gate \$7.53

Severance taxes paid

(2007, in thous. \$)

Top Producing Counties

(2007 on a BOE basis)

County % Production State US NA NA NA

Number of wells drilled			
	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	NA	NA
Total	NA	NA	NA

NA NA

Total	footogo	drillad	

l otal	tootag	e dril	led
(thouse	ft \		

(thous.	ft.)
---------	------

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	NA	NA
Total	NA	NA	NA
(Note: 7	otals may not add o	due to rounding.)	

New-field wildcats drilled	
Footage (thous. ft.)	

Average rotary rigs active	0
Two rage rotary rigo dotive	•

0

Statewide rank

	Crude Oil	Natural Ga
Wells drilled	27th	30th
Production	30th	NA
Reserves (2007)	NA	NA

Number of operators

Number of producing wells

(12/31/07)

Crude oil	NA
Natural gas	NA
Total	NA

Average production

Crude oil (thous. b/d)	NA
NGL (thous. b/d)	NA
Natural gas (MMcf/day)	NA

Total production

rotal production	
Crude oil (YTD bbls, in thous.)	NA
Natural gas (YTD MMcf)	NA

Natural gas marketed production

(MMcf)	0

Average output per producing well

Crude oil (bbls.)	NA
Natural gas (Mcf)	NA

Coalbed methane (YTD MMcf)

Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.)	NA
Wells	NΙΔ

Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

Cru	de 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 12/31/07 (Bcf)

A	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	NA	NA	NA
Production	NA	NA	NA
Net annual chang	e NA	NA	NA
Proved reserves	NA	NA	NA

Cost of drilling and equipping wells

	•		
	Cost/ft.	Cost/ To	tal Cost
	(\$)	well (\$) (th	nous. \$)
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	NA	NA

Marginal oil wells

Producing marginal wells	NA
Crude oil production in bbls. (thous.)	NA
Crude oil production b/d (thous.)	NA

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral Lease Royalties, Bonuses & Rent

Oil	
Gas	
Total Royalties	\$14,904,298

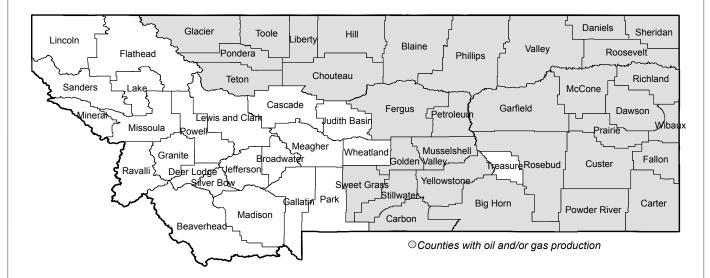
Horizontal wells drilled

Average number of employees

Oil and natural gas extraction	94
Refining	491
Transportation	3,450
Wholesale	4,174
Retail	25,377
Pipeline construction	405
Oilfield machinery	0
Total petroleum industry	33,991

While there is no commercial gas production in Missouri, 47 domestic gas wells are being used in private homes and small businesses to fuel heating appliances.

MONTANA



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 das — 116 848 MMcf	2007

Deepest producing well (ft.)

Crude oil	22,625
Natural gas	19,999

Year and depth of deepest well drilled (ft.)

2006	22.037
2000	22.037

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	14,904	35%
Gas wells	10,199	24%
Dry holes	17,361	41%
Total	42,464	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$21,951,052

Cumulative production & new reserves as of 12/31/07

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	2,046	56	2,102	4,570
Production	1,648	46	1,694	3,454

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$ 64.64
Natural gas (\$Mcf)	\$ 5.72

Wellhead value of production

(2007, in thous. \$)

Crude oil	\$2,251,347
Natural gas	\$ 668,371
Total	\$2,919,718

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$ 9.91
Commercial consumers	\$ 9.76
Industrial consumers	\$ 9.75
Electric utilities	NA
City Gate	\$ 6.42

Severance taxes paid \$242.776

(2007, in thous. \$)

County	% Produ	% Production	
	State	US	
Richland	40.62	0.42	
Fallon	21.49	0.17	
Phillips	6.21	0.05	
Big Horn	4.50	0.04	
Blaine	4.45	0.04	
Hill	4.30	0.03	
Sheridan	3.52	0.03	
Roosevelt	2.78	0.02	
Toole	2.10	0.02	
Wibaux	1.71	0.01	

Numbe	or of we	alle dr	halli
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	Exploratory	Development	Total
Oil	130	208	338
Gas	40	420	460
Dry	20	44	64
Total	190	672	862

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	1,348.7	2,031.2	3,379.9
Gas	76.3	719.4	795.7
Dry	72.9	128.3	201.2
Total	1,498.0	2,878.9	4,376.9
(Note: 1	Totals may not add	due to rounding.)	

New-field wildcats drilled 107 Footage (thous. ft.) 801.4

Average rotar	v rigs active	17
, o. a.g o.a	,g	• •

Permits 1,004

Statewide rank

Crude Oil	Natural Gas
15th	14th
11th	17th
14th	20th
	15th 11th

Number of operators 244

Number of producing wells

4,873
6,206
11,079

Average production

Crude oil (thous. b/d)	95
NGL (thous. b/d)	0.2
Natural gas (MMcf/day)	243

Total production

Crude oil (YTD bbls, in thous.)	34,815
Natural gas (YTD MMcf)	88,833

Natural gas marketed production

(MMcf)	116.848

Average output per producing well

Crude oil (bbls.)	7,144
Natural gas (Mcf)	14,314

Coalbed methane (YTD MMcf) 13,146

Oil Wells	3
Gas Wells	910
Daily Average (MMcf) / Well	36

Heavy oil (YTD bbls, in thous.) 223 Wells 83

Wells	83
Av. bbls per day	0.6
Av. bbls per well/d	2,690

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	26	2	28
Production	35	1	36
Net annual cha	ange -9	1	-8
Proved reserve	es 410	11	421

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	45	66	107
Production	21	92	112
Net annual char	nge 24	-26	-5
Proved reserves	s 219	848	1,052

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	451 4	1,507,413	1,523,506
Gas	320	552,867	254,319
Drv	417	1,311,719	83,950

Marginal oil wells

Producing marginal wells	2,944
Crude oil production in bbls. (thous.)	3,535
Crude oil production b/d (thous.)	10

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	5,334
Natural gas production (MMcf)	43,672

Mineral Lease Royalties, Bonuses & Rent

Oil	\$26,767,229
Gas	\$19,864,216
Total Royalties	\$97,658,026

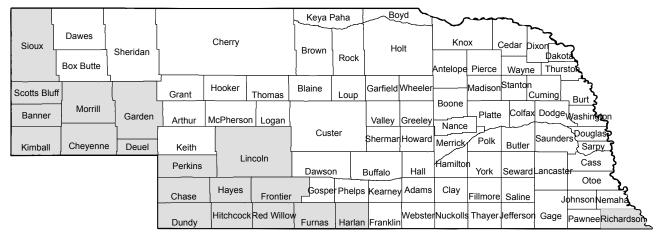
Horizontal wells drilled 277

Average number of employees

Oil and natural gas extraction	2,752
Refining	975
Transportation	754
Wholesale	990
Retail	5,271
Pipeline construction	461
Oilfield machinery	0
Total petroleum industry	11,203

Over 20% of the gas production in Montana comes from the Cedar Creek Field. Discovered in the early 1900s, over 100 wells were completed in 2007 to contribute to the top producing field in the state.

NEBRASKA



OCounties with oil and/or gas production

Background Information

Counties

Number of counties	93
With oil and/or gas production	19

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 11,761 Natural gas 5,832

Year and depth of deepest well drilled (ft.)

1997 13.128

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	6,054	30%
Gas wells	425	2%
Dry holes	13,468	68%
Total	19,947	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$4,516,591

Cumulative production & new reserves as of 12/31/07

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	514	NA	514	NA
Production	506	NA	506	NA

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.) \$62.78 Natural gas (\$Mcf) NA

Wellhead value of production

(2007, in thous. \$)

Crude oil	\$146,529
Natural gas	NA
Total	\$146,529

Average natural gas price

(2007, \$/Mcf)

644.45
\$11.15
\$ 9.16
\$ 7.97
\$ 8.97
\$ 7.67

Severance taxes paid \$2.893

(2007, in thous. \$)

County	% Production	
	State	US
Kimball	25.91	0.01
Hitchcock	21.68	<0.01
Cheyenne	12.81	<0.01
Red Willow	11.32	<0.01
Dundy	10.64	<0.01
Banner	4.35	<0.01
Deuel	2.53	<0.01
Morrill	2.43	<0.01
Chase	1.73	<0.01
Hayes	1.66	<0.01

		•			
Num	her	Of N	MAIIC	dri	וופמ

	Exploratory	Development	Total
Oil	6	11	17
Gas	11	94	105
Dry	16	27	43
Total	33	132	165

Total footage drilled

(thous, ft.)

	Exploratory	Development	Total
Oil	35.1	50.9	86.0
Gas	32.6	240.2	272.8
Dry	66.9	102.3	169.2
Total	134.6	393.4	528.0
(Note: 7	Totals may not add	due to rounding.)	

New-field wildcats drilled 21 Footage (thous. ft.) 82.6

Average rotary rigs active

Permits 228

Statewide rank

Crude Oil	Natural Gas
23rd	25th
22nd	27th
24th	NA
	23rd 22nd

Number of operators 106

Number of producing wells

1,211
195
1,406

Average production Crude oil (thous. b/d) NGL (thous. b/d)

6

NGL (thous. b/d) 0 Natural gas (MMcf/day) 4 Total production

Crude oil (YTD bbls, in thous.) 2,333 Natural gas (YTD MMcf) 1,282

Natural gas marketed production

(MMcf) 1,555

Average output per producing well

Crude oil (bbls.)	1,926
Natural gas (Mcf)	6,576

Coalbed methane (YTD MMcf) NA

NA
NA
NA

Heavy oil (YTD bbls, in thous.) NA Wells NA

Wells NA
Av. bbls per day NA
Av. bbls per well/d NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

С	rude Oil	NGL	Total
New reserves	0	NA	0
Production	2	NA	2
Net annual change	-2	NA	-2
Proved reserves	12	NA	12

Natural gas reserves

as of 12/31/07 (Bcf)

,	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	NA	NA	NA
Production	NA	NA	NA
Net annual chang	je NA	NA	NA
Proved reserves	NA	NA	NA

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	238	1,205,265	20,489
Gas	270	700,515	73,554
Dry	150	588,846	25,320

Marginal oil wells

Producing marginal wells	1,153
Crude oil production in bbls. (thous.)	1,575
Crude oil production b/d (thous.)	4

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	176
Natural gas production (MMcf)	1,282

Mineral Lease Royalties, Bonuses & Rent

Oil	\$409,124
Gas	\$123,992
Total Royalties	\$570,759

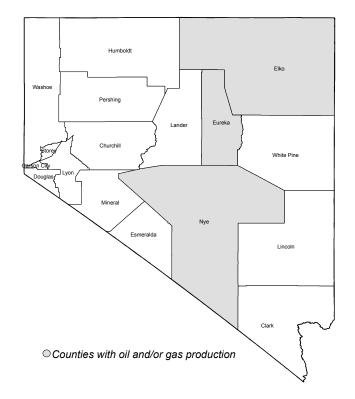
Horizontal wells drilled

Average number of employees

Oil and natural gas extraction	249
Refining	122
Transportation	1,580
Wholesale	1,243
Retail	9,006
Pipeline construction	860
Oilfield machinery	0
Total petroleum industry	13,060

First drilled in 1956, just over 400 barrels of oil were produced in Kleinholz Field in Nebraska. In 2007, the field produced over 300,000 barrels as the top producing field in the state.

NEVADA



Background Information

Counties

Number of counties	17
With oil and/or gas production	3

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 — 53	1991

Deepest producing well (ft.)

Crude oil	8,050
Natural gas	NA

Year and depth of deepest well drilled (ft.)

1980 19,562

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	121	14%
Gas wells	2	0%
Dry holes	780	86%
Total	903	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$873,543

Cumulative production & new reserves as of 12/31/07

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

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$64.20
Natural gas (\$Mcf)	NA

Wellhead value of production

(2007, in thous. \$)

Crude oil	26,194
Natural gas	NA
Total	26,194

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$14.17
Commercial consumers	\$12.03
Industrial consumers	\$11.77
Electric utilities	\$ 6.31
City Gate	\$ 8.72
•	

Severance taxes paid \$40

(2007, in thous. \$)

Top Producing Counties

County	% Production	
	State	US
Nye	89.63	< 0.01
Eureka	9.93	<0.01
Elko	0.43	< 0.01

N I	- 6 11 -	40.200
Number	or wells	arillea

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	2	NA	2
Total	2	NA	2

Total footage drilled

(thous.

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	14.6	NA	14.6
Total	14.6	NA	14.6
(Note: 7	Totals may not add	due to rounding.)	

New-field wildcats drilled 2 Footage (thous. ft.) 14.6

Average rotary rigs active	2
recorded to tary rigo doute	_

Permits 15

Statewide rank

Crude Oil	Natural Gas
30th	35th
27th	33rd
NA	NA
	30th 27th

Number of operators

Number of producing wells

(12/31/07)	
Crude oil	74
Natural gas	0
Total	74

Average production Crude oil (thous. b/d) NGL (thous. b/d) Natural gas (MMcf/day)

Total	production	
<u> </u>	TATELLE	

Crude oil (YTD bbls, in thous.)	410
Natural gas (YTD MMcf)	0

Natural gas marketed production

(MMcf)

Average output per producing well

Crude oil (bbls.)	5,542
Natural gas (Mcf)	0

Coalbed methane (YTD MMcf) NA

Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.)

Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

С	rude 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 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	NA	NA	NA
Production	NA	NA	NA
Net annual cha	ange NA	NA	NA
Proved reserve	es NA	NA	NA

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	163	1,186,392	2,373

Marginal oil wells

Producing marginal wells	50
Crude oil production in bbls. (thous.)	125
Crude oil production b/d (thous.)	0

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral Lease Royalties, Bonuses & Rent

Oil	\$ 2,610,208
Gas	
Total Rovalties	\$14.663.004

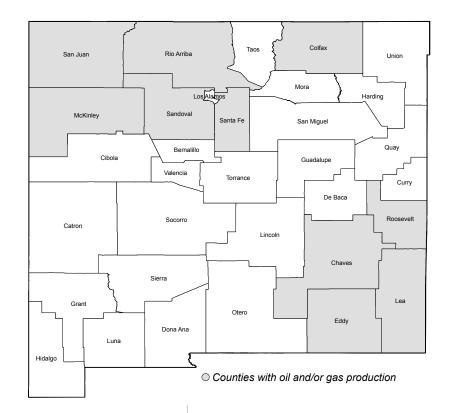
Horizontal wells drilled 0

Average number of employees

Oil and natural gas extraction	182
Refining	217
Transportation	23
Wholesale	787
Retail	8,563
Pipeline construction	681
Oilfield machinery	0
Total petroleum industry	10,453

Almost 40% of the oil production in Nevada is produced from the Trap Spring Field. This field was discovered in the mid 1970s.

New Mexico



Background Information

Counties

Number of counties	33
With oil and/or gas production	10

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 18,380 Natural gas 26,579

Year and depth of deepest well drilled (ft.)

1969 22,926

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

 Oil wells
 50,226
 46%

 Gas wells
 39,703
 37%

 Dry holes
 18,504
 17%

 Total
 108,433
 100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$61,738,389

Cumulative production & new reserves as of 12/31/07

 Crude
 NGL
 Natural

 Oil
 (mill. bbls.)
 Total
 Gas (Bcf)

 Reserves
 7,207
 3,327
 10,534
 82,484

 Production
 6,540
 2,378
 8,918
 65,236

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.) \$68.94 Natural gas (\$Mcf) \$ 6.88

Wellhead value of production (2007, in thous. \$)

 Crude oil
 \$ 4,055,809

 Natural gas
 \$10,628,430

 Total
 \$14,684,239

Average natural gas price

(2007, \$/Mcf)

Residential consumers \$11.99
ommercial consumers \$10.00
Industrial consumers \$8.54
Electric utilities NA
City Gate \$6.45

Severance taxes paid \$ 987,921

(2007, in thous. \$)

Top 10 Producing Counties

County	% Production	
	State	US
San Juan	36.82	2.07
Rio Arriba	23.38	1.02
Eddy	18.74	0.82
Lea	17.56	0.77
Colfax	1.63	0.07
Chaves	1.60	0.07
Roosevelt	0.20	<0.01
Sandoval	0.06	<0.01
McKinley	< 0.01	<0.01
Santa Fe	<0.01	<0.01

Numl	hor	Ωf	wol	lo	dri	المطا
INUITII	Dei	OI	wei	ıs	\mathbf{u}	nea

	Exploratory	Development	Total
Oil	19	524	543
Gas	25	1,182	1,207
Dry	31	57	88
Total	75	1.763	1.838

Total footage drilled

(thous ft)

	Exploratory	Development	Total
Oil	104.1	3,351.2	3,455.3
Gas	215.4	6,806.8	7,022.2
Dry	171.7	399.8	571.5
Total	491.2	10,557.8	11,049.0
(Note: 7	otals may not add	due to rounding.)	

New-field wildcats drilled 45 Footage (thous. ft.) 300.8

Average rotary rigs active 78

Permits 2,697

Statewide rank

Crude Oil	Natural Gas
7th	7th
7th	5th
8th	5th
	7th 7th

Number of operators 556

Number of producing wells

 (12/31/07)

 Crude oil
 21,644

 Natural gas
 32,535

 Total
 54,179

Average production

Crude oil (thous. b/d) 146 NGL (thous. b/d) 17 Natural gas (MMcf/day) 3,546

Total production

Crude oil (YTD bbls, in thous.) 53,300 Natural gas (YTD MMcf) 1,294,420

Natural gas marketed production

(MMcf) 1,544,830

Average output per producing well

Crude oil (bbls.) 2,463 Natural gas (Mcf) 39,785

Coalbed methane (YTD MMcf) 486,513

Oil Wells	1
Gas Wells	5,497
Daily Average (MMcf) / Well	1,333

Heavy oil (YTD bbls, in thous.) 15 Wells 31

Wells 31
Av. bbls per day 0.0
Av. bbls per well/d 469

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

Cr	ude Oil	NGL	Total
New reserves	84	59	143
Production	54	76	130
Net annual change	30	-17	13
Proved reserves	735	844	1 579

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	250	488	660
Production	181	1,264	1,349
Net annual cha	inge 69	-776	-689
Proved reserve	s 1,841	16,556	17,245

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	282	1,794,905	974,634
Gas	249	1,447,889	1,747,602
Dry	419	2,723,603	239,677

Marginal oil wells

Producing marginal wells	18,257
Crude oil production in bbls. (thous.)	22,618
Crude oil production b/d (thous.)	62

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	21,995
Natural gas production (MMcf)	274,675

Mineral Lease Royalties, Bonuses & Rent

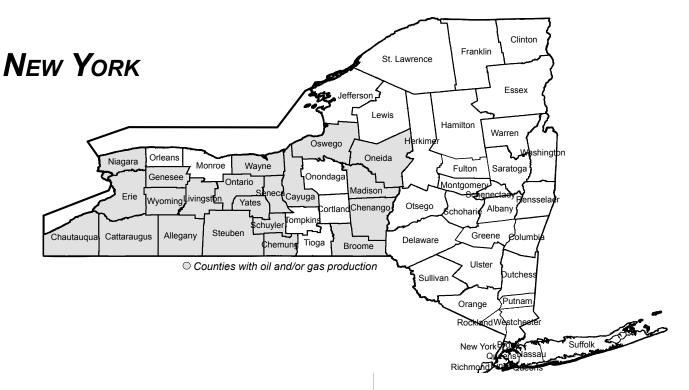
Oil	\$ 296,545,092
Gas	\$ 692,319,252
Total Royalties	\$ 1,195,256,231

Horizontal wells drilled 181

Average number of employees

Oil and natural gas extraction	15,185
Refining	736
Transportation	1,728
Wholesale	1,628
Retail	7,922
Pipeline construction	2,070
Oilfield machinery	188
Total petroleum industry	29.457

Over 600 wells were completed in 2007 in Basin Field in New Mexico to help add to the almost 50% of gas production for the state. This field was discovered in the early 1940s.



Background Information

Counties

Number of counties	62
With oil and/or gas production	21

First year of production

Crude oil	1865
Natural gas	1821

Year and amount of peak production

Crude oil — 6,685 thous. bbls.	1882
Natural gas — 55 980 MMcf	2006

Deepest producing well (ft.)

Crude oil	3,990
Natural gas	13,420

Year and depth of deepest well drilled (ft.)

2002 15.000

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	15,340	54%
Gas wells	9,859	35%
Dry holes	3,307	11%
Total	28,506	100%

Cumulative crude oil wellhead value

\$1,176,845 as of 12/31/07 (thous. \$)

Cumulative production & new reserves

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	NA	NA	NA	1,613
Production	NA	NA	NA	1,251

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$69.46
Natural gas (\$Mcf)	\$ 8.85

Wellhead value of production (2007, in thous. \$)

Crude oil	\$ 26,395
Natural gas	\$486,237
Total	\$512,632

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$15.49
Commercial consumers	\$11.72
Industrial consumers	\$11.33
Electric utilities	\$ 8.09
City Gate	\$ 8.61

Severance taxes paid (2007, in thous. \$)

Top 10 Producing Counties (2007 on a BOE basis)

County	% Prod	uction
·	State	US
Chemung	37.28	0.07
Steuben	33.07	0.05
Chautauqua	11.79	0.02
Cattaraugus	4.80	<0.01
Schuyler	3.32	<0.01
Erie	2.83	<0.01
Seneca	1.51	<0.01
Cayuga	1.35	<0.01
Genesee	1.27	<0.01
Wyoming	0.71	<0.01

N.L	-f II-	ام مالانسام
Number	or wells	arillea

	Exploratory	Development	Total
Oil	16	116	132
Gas	34	168	202
Dry	12	4	16
Total	62	288	350

Total footage drilled

(thous, ft.)

	Exploratory	Development	Total
Oil	31.2	196.9	228.1
Gas	204.0	534.9	738.9
Dry	123.8	15.4	139.1
Total	358.9	747.2	1,106.1
(Note: Totals may not add due to rounding.)			

28

255.9

New-field wildcats drilled Footage (thous. ft.)

Average rotary rigs active	6
Average rotary rigo delive	U

Permits 545

Statewide rank

Crude Oil	Natural Gas
13th	15th
28th	22nd
NA	23rd
	13th 28th

Number of operators 427

Number of producing wells

(12/31/07)	
Crude oil	2,435
Natural gas	7,138
Total	9,573

Average production

Crude oil (thous. b/d)	1
NGL (thous. b/d)	0.3
Natural gas (MMcf/day)	150

Total production

Crude oil (YTD bbls, in thous.)	267
Natural gas (YTD MMcf)	54,586

Natural gas marketed production

(MMcf) 54,942

Average output per producing well

Crude oil (bbls.)	110
Natural gas (Mcf)	7,647

Coalbed methane (YTD MMcf) NA

Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls in thous)

ricavy on (Tib bols, in thous.)	INA
Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	NA	NA	NA
Production	NA	NA	NA
Net annual ch	ange NA	NA	NA
Proved reserv	es NA	NA	NA

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non- Associated	Dry Gas
New reserves	9	48	57
		. •	•
Production	1	44	44
Net annual chang	je 8	4	13
Proved reserves	10	365	376

Cost of drilling and equipping wells

	•		
	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	168	290,156	38,301
Gas	181	662,989	133,924
Dry	516	4,487,182	71,795

Marginal oil wells

Producing marginal wells	2,259
Crude oil production in bbls. (thous.)	267
Crude oil production b/d (thous.)	1

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	6,898
Natural gas production (MMcf)	12,755

Mineral Lease Royalties, Bonuses & Rent

Oil	
Gas	\$7,279
Total Royalties	\$7.279

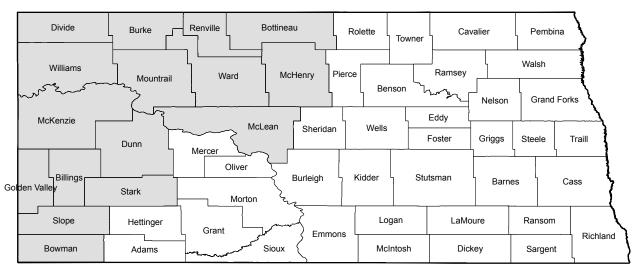
Horizontal wells drilled 3

Average number of employees

Oil and natural gas extraction	1,296
Refining	451
Transportation	4,210
Wholesale	13,574
Retail	28,685
Pipeline construction	1,520
Oilfield machinery	0
Total petroleum industry	49,736

Discovered around the turn of the century, Bradford Field in New York is the highest producing oil field in 2007. Over 100 wells were completed in the year.

North Dakota



O Counties with oil and/or gas production

Background Information

Counties

Number of counties	53
With oil and/or gas production	16

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.)

(25,828 MD horizontal) Natural gas (21,070 MD horizontal) 15,300

Year and depth of deepest well drilled (ft.)

2007 (18,262 MD horizontal-2000) 21,727

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	10,057	59%
Gas wells	326	2%
Dry holes	6,671	39%
Total	17,054	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$30,381,131

Cumulative production & new reserves as of 12/31/07

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	2,051	260	2,311	2,856
Production	1,580	180	1,760	2,361

Value of Oil and Gas

Average wellhead price (2007)

Crude oil (\$/bbl.)	\$ 65.30
Natural gas (\$Mcf)	\$ 6.67

Wellhead value of production

(2007, in thous. \$)

Crude oil	\$2,942,287
Natural gas	\$ 365,149
Total	\$3,307,436

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$ 9.13
Commercial consumers	\$ 8.37
Industrial consumers	\$ 6.86
Electric utilities	\$ 6.41
City Gate	\$ 7.04

Severance taxes paid \$ 185,970 (2007, in thous. \$)

Top 10 Producing Counties

County	% Production	
	State	US
Bowman	39.24	0.37
McKenzie	14.35	0.11
Billings	11.27	0.08
Williams	10.04	0.07
Mountrail	5.16	0.04
Dunn	4.18	0.03
Bottineau	4.04	0.03
Stark	3.46	0.03
Burke	1.90	0.01
Divide	1.75	0.01

		•		
Num	her	OT W	Alle.	drilled

	Exploratory	Development	Total
Oil	218	255	473
Gas	2	9	11
Dry	21	14	35
Total	241	278	519

Total footage drilled

(thous ft)

	Exploratory	Development	Total
Oil	2,545.4	2,468.2	5,013.6
Gas	28.2	50.2	78.4
Dry	155.4	97.6	253.0
Total	2,728.9 Totals may not add	2,616.1	5,345.0
(Note. I	otais may not add	aue to rounaing.)	

New-field wildcats drilled	105
Footage (thous. ft.)	1,205.4

Average rotary rigs active 39

Permits 726

Statewide rank

Crude Oil	Natural Gas
20th	26th
9th	23rd
13th	22nd
	20th 9th

Number of operators 153

Number of producing wells

41
03
44
0

Average production

116
6.8
51

Total production

Crude oil (YTD bbls, in thous.)	42,249
Natural gas (YTD MMcf)	18,546

Natural gas marketed production

(MMcf) 54,745

Average output per producing well

Crude oil (bbls.)	8,727
Natural gas (Mcf)	61,207

Coalbed methane (YTD MMcf) NA

Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.)

Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

Cr	ude Oil	NGL	Total
New reserves	115	9	124
Production	45	6	51
Net annual change	70	3	73
Proved reserves	482	58	540

Natural gas reserves

as of 12/31/07 (Bcf)

Α	ssociated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	103	-10	85
Production	43	17	53
Net annual change	e 60	-27	32
Proved reserves	417	155	511

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	463	4,902,502	2,318,884
Gas	1,245	8,871,394	97,585
Dry	304	2,199,567	76,985

Marginal oil wells

Producing marginal wells	3,289
Crude oil production in bbls. (thous.)	4,931
Crude oil production b/d (thous.)	14

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	188
Natural gas production (MMcf)	2,262

Mineral Lease Royalties, Bonuses & Rent

Oil	\$46,127,070
Gas	\$ 6,191,859
Total Royalties	\$64,776,633

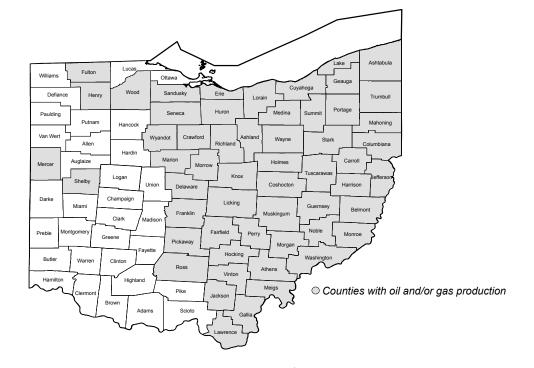
Horizontal wells drilled 452

Average number of employees

Oil and natural gas extraction	3,522
Refining	0
Transportation	251
Wholesale	1,612
Retail	4,024
Pipeline construction	262
Oilfield machinery	0
Total petroleum industry	9,671

Almost 100% of the gas production in North Dakota is from the Beaver Lodge Field. This field was discovered in the early 1950s.

Оню



Background Information

Counties

Number of counties	88
With oil and/or gas production	56

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	8,795
Natural gas	11,442

Year and depth of deepest well drilled (ft.) 1967

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	47,300	58%
Gas wells	23,102	28%
Dry holes	11,208	14%
Total	81,610	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$9,063,537

Cumulative production & new reserves as of 12/31/07

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	1,131	NA	1,131	9,752
Production	1,096	NA	1,096	8,962

Value of Oil and Gas

Average wellhead price (2007)

Crude oil (\$/bbl.)	\$68.09
Natural gas (\$Mcf)	\$ 7.59

Wellhead value of production (2007, in thous. \$)

Crude oil	\$ 371,431
Natural gas	\$ 668,641
Total	\$1.040.072

Average natural gas price (2007, \$/Mcf)

Residential consumers	\$13.47
Commercial consumers	\$11.74
Industrial consumers	\$10.63
Electric utilities	\$ 7.88
City Gate	\$ 8.64

Severance taxes paid \$ 2,452 (2007, in thous. \$)

Top 10 Producing Counties (2007 on a BOE basis)

County	% Production	
	State	US
Putnam	40.89	1.77
Meigs	23.52	0.93
Ross	2.88	0.12
Washington	2.66	0.12
Ashtabula	2.32	0.10
Lorain	2.11	0.09
Crawford	1.99	0.09
Muskingum	1.55	0.07
Wyandot	1.33	0.06
Athens	1.32	0.06

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INUITIO	ei oi w	ยแร น	riiiea

	Exploratory	Development	Total
Oil	27	217	244
Gas	87	433	520
Dry	8	34	42
Total	122	684	806

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	96.8	838.7	935.6
Gas	333.3	1,685.5	2,018.8
Dry	30.2	128.4	158.6
Total	460.3	2,652.6	3,112.9
(Note: Totals may not add due to rounding.)			

New-field wildcats drilled	33
Footage (thous. ft.)	115.2

Average rotary rigs active	13
recorded to tary rigo doute	. •

Permits 1,295

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	8th	11th
Production	18th	20th
Reserves (2007)	19th	17th

Number of operators 151

Number of producing wells

 (12/31/07)

 Crude oil
 16,192

 Natural gas
 20,507

 Total
 36,249

Average production

Crude oil (thous. b/d)	11
NGL (thous. b/d)	2.2
Natural gas (MMcf/day)	152

Total production

Crude oil (YTD bbls, in thous.) 3,958 Natural gas (YTD MMcf) 55,657

Natural gas marketed production

(MMcf) 88,095

Average output per producing well

Crude oil (bbls.) 244 Natural gas (Mcf) 2,714

Coalbed methane (YTD MMcf) NA

Oil Wells NA
Gas Wells NA
Daily Average (MMcf) / Well NA

Heavy oil (YTD bbls, in thous.)

Wells NA
Av. bbls per day NA
Av. bbls per well/d NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

Cr	ude Oil	NGL	Total
New reserves	3	NA	3
Production	4	NA	4
Net annual change	-1	NA	-1
Proved reserves	48	NA	48

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-65	188	123
Production	8	63	71
Net annual cha	nge -73	125	52
Proved reserve	s 101	926	1,027

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	108	412,810	100,726
Gas	118	459,247	238,808
Dry	119	449,107	18,863

Marginal oil wells

Producing marginal wells	0
Crude oil production in bbls. (thous.)	0
Crude oil production b/d (thous.)	0

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	20,001
Natural gas production (MMcf)	47,802

Mineral Lease Royalties, Bonuses & Rent

Oil	\$183,965
Gas	\$621,770
Total Royalties	\$812,940

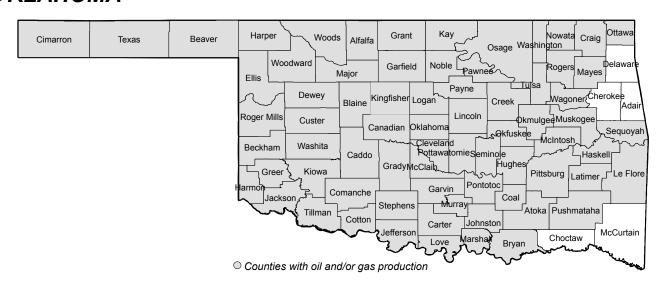
Horizontal wells drilled 4

Average number of employees

Oil and natural gas extraction	5,162
Refining	2,291
Transportation	4,416
Wholesale	5,555
Retail	34,576
Pipeline construction	1,394
Oilfield machinery	204
Total petroleum industry	53,598

Canton Consolidated Field in Ohio was discovered in the early 1980s. Over the last 25 years, gas production has grown over 200%.

OKLAHOMA



Background Information

Counties

Number of counties 77 With oil and/or gas production

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 22,450 Natural gas 27,400

Year and depth of deepest well drilled (ft.)

1974 31,441

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

241,942 53% 18% Gas wells 84,280 Dry holes 135,927 29% Total 462,149 100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$111,656,729

Cumulative production & new reserves as of 12/31/07

Crude NGL Natural Oil (mill. bbls.) Total Gas (Bcf) Reserves 14,898 5,513 20,411 116,605 Production 14,516 4,429 18,945 112,348

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.) \$69.31 Natural gas (\$Mcf) \$ 6.24

Wellhead value of production

(2007, in thous. \$)

Crude oil \$ 4,224,583 Natural gas \$10,885,012 Total \$15,109,595

Average natural gas price

(2007, \$/Mcf)

Residential consumers Commercial consumers Industrial consumers Electric utilities	\$12.06 \$10.93 \$ 9.18 \$ 6.69
City Gate	\$ 6.69 \$ 8.14
Oily Gale	Ψ 0.1-

Severance taxes paid \$ 1.001.328

(2007, in thous. \$)

Top 10 Producing Counties

County	% Production	
	State	US
Roger Mills	8.42	0.56
Latimer	6.92	0.36
Beckham	6.73	0.35
Caddo	5.68	0.29
Pittsburg	5.13	0.26
Grady	4.50	0.23
Washita	4.38	0.23
Texas	4.04	0.21
Stephens	3.89	0.20
Custer	3.17	0.16

Numl	hor	Ωf	wol	lo	dri	المطا
INUITII	Dei	OI	wei	ıs	\mathbf{u}	nea

	Exploratory	Development	Total
Oil	77	806	883
Gas	417	1,906	2,323
Dry	102	280	382
Total	596	2,992	3,588

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	589.3	4,147.0	4,736.3
Gas	4,070.6	14,217.7	18,288.2
Dry	678.2	1,289.3	1,967.5
Total	5,338.0	19,654.0	24,992.0
(Note: 7	otals may not add	due to rounding.)	

New-field wildcats drilled 262 Footage (thous. ft.) 2,497.9

Average rotary rigs active 188

Permits 5,110

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	2nd	2nd
Production	6th	4th
Reserves (2007)	6th	4th

Number of operators 3,843

Number of producing wells

 (12/31/07)

 Crude oil
 51,160

 Natural gas
 38,164

 Total
 89,324

Average production

Crude oil (thous. b/d)	140
NGL (thous. b/d)	30.9
Natural gas (MMcf/day)	4,370

Total production

Crude oil (YTD bbls, in thous.) 51,093 Natural gas (YTD MMcf) 1,595,177

Natural gas marketed production

(MMcf) 1,744,393

Average output per producing well

Crude oil (bbls.)	999
Natural gas (Mcf)	41,798

Coalbed methane (YTD MMcf) 62,272

Oil Wells	11
Gas Wells	3,457
Daily Average (MMcf) / Well	171

Heavy oil (YTD bbls, in thous.)

Wells

Av. bbls per day

Av. bbls per well/d

NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

C	Crude Oil	NGL	Total
New reserves	-14	141	155
Production	53	84	137
Net annual change	-39	57	18
Proved reserves	530	949	1.479

Natural gas reserves

as of 12/31/07 (Bcf)

Д	ssociated	Non-	Dry
[Dissolved	Associated	Gas
New reserves	263	3,146	3,226
Production	104	1,656	1,659
Net annual change	e 159	1,490	1,567
Proved reserves	959	19,225	19,031

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	264	1,416,888	1,295,097
Gas	376	2,962,855	6,882,711
Dry	251	1,295,097	494,727

Marginal oil wells

Producing marginal wells	46,988
Crude oil production in bbls. (thous.)	33,749
Crude oil production b/d (thous.)	92

Marginal natural gas wells

as of 12/31/07

Producing marginal wells 26,707 Natural gas production (MMcf) 320,222

Mineral Lease Royalties, Bonuses & Rent

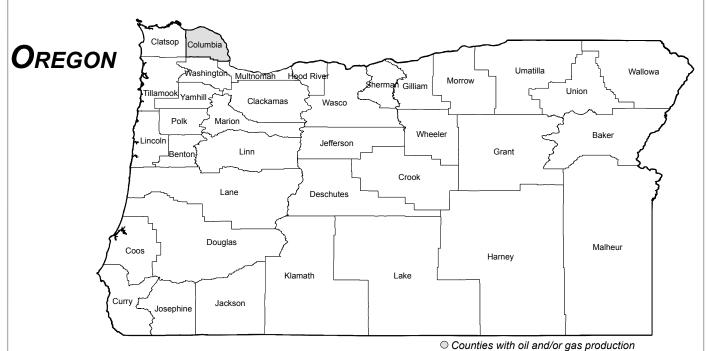
Oil	\$ 11,051,414
Gas	\$ 33,365,160
Total Royalties	\$ 53,268,070

Horizontal wells drilled 759

Average number of employees

Oil and natural gas extraction	44,694
Refining	1,893
Transportation	5,076
Wholesale	3,650
Retail	13,570
Pipeline construction	1,968
Oilfield machinery	7,666
Total petroleum industry	78,517

Although drilling continued in 2007 in Sho-Vel-Tum Field in Oklahoma, production has fallen off since the field was discovered in the early 1900s. The field is still the top producing oil field in the state with over 8 million barrels produced.



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	3,720

Year and depth of deepest well drilled (ft.)

1979 13,177

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	NA	NA	
Gas wells	67	16%	
Dry holes	361	84%	
Total	428	100%	

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$)

Cumulative production & new reserves as of 12/31/07

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	NA	NA	NA	NA
Production	NA	NA	NA	72

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	NA
Natural gas (\$Mcf)	\$5.27

Wellhead value of production

(2007, in thous. \$)

Crude oil	NA
Natural gas	\$ 2,155
Total	\$ 2,155

Average natural gas price

(2007, \$/Mcf)

Residential consumers Commercial consumers	\$14.65 \$12.36
Industrial consumers Electric utilities	\$ 9.30 \$ 6.10
City Gate	\$ 8.14

Severance taxes paid \$ 117 (2007, in thous. \$)

Top Producing Counties

County	% Production	
	State	US
Columbia	100	<0.01

Number	of \	عالصير	drillad
number	U۱	wells	armea

	Exploratory	Development	Total
Oil	NA	NÅ	NA
Gas	NA	NA	NA
Dry	NA	NA	NA
Total	NA	NA	NA

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	NA	NA
Total	NA	NA	NA
(Note: 7	Totals may not add	due to rounding.)	

NA

NA

New-field wildcats drilled Footage (thous. ft.)

Average rotary rigs active	0

Permits	(

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	NA	31st
Production	NA	30th
Reserves (2007)	NA	NA

Number of operators

Number of producing wells

(12/31/07)	
Crude oil	0
Natural gas	12
Total	12

Average production

Crude oil (thous. b/d)	0
NGL (thous. b/d)	0
Natural gas (MMcf/day)	1

Total production

Crude oil (YTD bbls, in thous.)	0
Natural gas (YTD MMcf)	371

Natural gas marketed production

(MMcf)		409

Average output per producing well

Crude oil (bbls.)	NA
Natural gas (Mcf)	30,936
0 ()	•

Coalbed methane (YTD MMcf) NA Oil Wells NA Gas Wells NA Daily Average (MMcf) / Well NA

Heavy oil (YTD bbls, in thous.)

•		
Wells	N	Α
Av. bbls per day	N	Α
Av. bbls per well/d	N	Α

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

Crud	de 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 12/31/07 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	NA	NA	NA
Production	NA	NA	NA
Net annual change	e NA	NA	NA
Proved reserves	NA	NA	NA

Cost of drilling and equipping wells

	Cost/ft.	Cost/ Tot	al Cost
	(\$)	well (\$) (th	ious. \$)
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	NA	NA

Marginal oil wells

Producing marginal wells	NA
Crude oil production in bbls. (thous.)	NA
Crude oil production b/d (thous.)	NA

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	9
Natural gas production (MMcf)	134

Mineral Lease Royalties, Bonuses & Rent

Oil	
Gas	
Total Royalties	\$1 062 727

Horizontal wells drilled 0

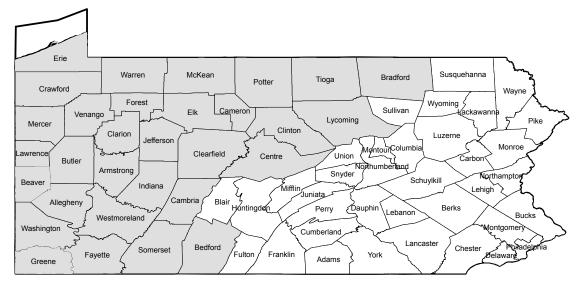
Average number of employees Oil and natural gas extraction

Transportation	0
Transportation	•
Wholesale	1,768
Retail	10,872
Pipeline construction	336
Oilfield machinery	0
Total petroleum industry	13,452

100% of the gas production in Oregon comes from the Mist Field. Since the discovery in the late 1970s with production under 2,000 MCFs, the field produced over 350,000 MCFs in 2007.

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PENNSYLVANIA



O Counties with oil and/or gas production

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	NA
Natural gas	NA

Year and depth of deepest well drilled (ft.) 1974

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	23,372	31%
Gas wells	48,781	64%
Dry holes	4,351	5%
Total	76.504	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$5,533,421

Cumulative production & new reserves as of 12/31/07

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	1,362	NA	1,362	16,443
Production	1,359	NA	1,359	13,272

Value of Oil and Gas

Average wellhead price (2007)

Crude oil (\$/bbl.)	\$70.00
Natural gas (\$Mcf)	NA

Wellhead value of production

Crude oil	\$255,710
Natural gas	NA
Total	\$255 710

Average natural gas price (2007, \$/Mcf)

Residential consumers	\$14.66
Commercial consumers	\$12.77
Industrial consumers	\$10.64
Electric utilities	\$ 8.01
City Gate	\$ 9.35

Severance taxes paid (2007, in thous. \$)

Top Producing Counties

County	% Production	
	State	US
NA	NA	NA

		•		
Num	her	OT W	Alle.	drilled

	Exploratory	Development	Total
Oil	109	940	1,049
Gas	835	2,247	3,082
Dry	15	23	38
Total	959	3.210	4.169

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	232.3	1,710.3	1,942.6
Gas	3,642.3	8,562.1	12,204.4
Dry	54.4	66.9	121.31
Total	3,929.3	10,339.3	14,268.3
(Note: 7	otals may not add	due to rounding.)	

New-field wildcats drilled 338 Footage (thous. ft.) 1,444.3

Average rotary rigs active 16

Permits 6,543

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	10th	4th
Production	20th	16th
Reserves (2007)	17th	12th

Number of operators

Number of producing wells

(12/31/07)
Crude oil NA
Natural gas NA
Total NA

Average production

Crude oil (thous. b/d)	NA
NGL (thous. b/d)	NA
Natural gas (MMcf/day)	NA

Total production

Crude oil (YTD bbls, in thous.) NA Natural gas (YTD MMcf) NA

Natural gas marketed production

(MMcf) 182,277

Average output per producing well

Crude oil (bbls.)	NA
Natural gas (Mcf)	NA

NA

Coalbed methane (YTD MMcf)

Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.) NA Wells NA

Wells NA
Av. bbls per day NA
Av. bbls per well/d NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

(Crude Oil	NGL	Total
New reserves	-6	NA	-6
Production	2	NA	2
Net annual change	-8	NA	-8
Proved reserves	12	NA	12

Natural gas reserves

as of 12/31/07 (Bcf)

As	sociated	Non-	Dry
D	issolved	Associated	Gas
New reserves	-11	507	494
Production	10	173	183
Net annual change	-21	334	311
Proved reserves	130	3,247	3,361

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	162	299,179	313,838
Gas	115	456,449	1,406,776
Dry	163	519,485	19,740

Marginal oil wells

Producing marginal wells	NA
Crude oil production in bbls. (thous.)	NA
Crude oil production b/d (thous.)	NA

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	0
Natural gas production (MMcf)	0

Mineral Lease Royalties, Bonuses & Rent

Oil	\$	374
Gas	\$68	,904
Total Royalties	\$85	,095

Horizontal wells drilled 39

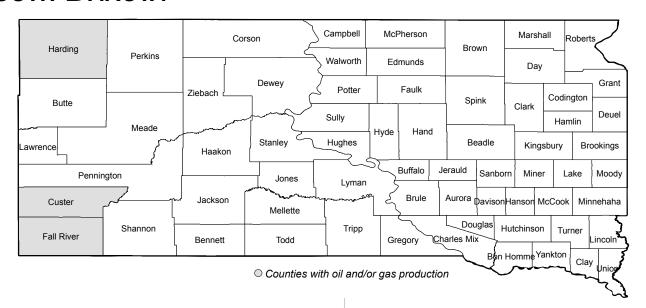
Average number of employees

Oil and natural gas extraction	6,151
Refining	5,002
Transportation	5,351
Wholesale	11,015
Retail	36,134
Pipeline construction	2,043
Oilfield machinery	322
Total petroleum industry	66,018

Between 2005 and 2007 more than 375

gas wells with suspected Marcellus intent had been permitted in Pennsylvania. With resource estimates of over 500 trillion cubic feet and a projected economic contribution of \$25 billion and 176,000 new jobs, the Marcellus looks to factor significantly in the state's projected oil and gas outlook.

SOUTH DAKOTA



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	15,159
Natural gas	7,337

Year and depth of deepest well drilled (ft.)

2006 17,025

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	411	24%
Gas wells	118	7%
Dry holes	1,188	69%
Total	1,717	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$1,057,950

Cumulative production & new reserves as of 12/31/07

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

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.) \$62.78 Natural gas (\$Mcf) \$ 7.22

Wellhead value of production

(2007, in thous. \$)

Crude oil	\$104,529
Natural gas	\$ 7,184
Total	\$ 111,713

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$10.49
Commercial consumers	\$ 8.81
Industrial consumers	\$ 8.32
Electric utilities	NA
City Gate	\$ 7.35
-	

Severance taxes paid \$3,153

(2007, in thous. \$)

Top Producing Counties

County	% Production	
	State	US
Harding	98.41	0.04
Fall River	1.45	<0.01
Custer	0.14	< 0.01

Number of	of wells	drilled
-----------	----------	---------

	Exploratory	Development	Total
Oil	NA	35	35
Gas	2	NA	2
Dry	10	1	11
Total	12	36	48

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	190.5	190.5
Gas	3.9	NA	3.8
Dry	11.2	1.1	12.3
Total (Note: T	15.1 otals may not add o	191.6 due to rounding.)	206.7

New-field wildcats drilled	12
Footage (thous. ft.)	15.1

Average rotary rigs active	2
Tivorage retary rigo delive	_

Permits 45

Statewide rank

Crude Oil	Natural Gas
28th	28th
25th	28th
NA	NA
	28th 25th

Number of operators 15

Number of producing wells

(12/31/07)	
Crude oil	163
Natural gas	64
Total	227

Average production

Crude oil (thous. b/d)	5
NGL (thous. b/d)	0
Natural gas (MMcf/day)	1

Total production

Crude oil (YTD bbls, in thous.)	1,653
Natural gas (YTD MMcf)	453

Natural gas marketed production

(MMcf) 995

Average output per producing well

Crude oil (bbls.)	10,142
Natural gas (Mcf)	7,083

Coalbed methane (YTD MMcf) Oil Wells Gas Wells Daily Average (MMcf) / Well NA

Heavy oil (YTD bbls, in thous.)

•	
Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

Cr	ude 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 12/31/07 (Bcf)

As	sociated	Non-	Dry
D	issolved	Associated	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.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	555	3,019,260	105,674
Gas	218	423,072	846
Dry	371	414,247	4,557

Marginal oil wells

Producing marginal wells	70
Crude oil production in bbls. (thous.)	179
Crude oil production b/d (thous.)	0

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	63
Natural gas production (MMcf)	420

Mineral Lease Royalties, Bonuses & Rent

Oil	\$1,189,852
Gas	\$ 98,476
Total Royalties	\$1,947,004

Horizontal wells drilled 34

Average number of employees

Oil and natural gas extraction	70
Refining	13
Transportation	281
Wholesale	1,269
Retail	5,811
Pipeline construction	55
Oilfield machinery	0
Total petroleum industry	7,499

Almost 100% of all oil and gas production in South Dakota is produced from the Buffalo Field. This field was discovered in 1954.

TENNESSEE



O Counties with oil and/or gas production

Background Information

Counties

Number of counties	95
With oil and/or gas production	13

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 NA Natural gas NA

Year and depth of deepest well drilled (ft.)

1982 11,540

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells 2.810 23% Gas wells 3,310 27% Dry holes 5,923 50% 100% Total 12,043

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$441,991

Cumulative production & new reserves as of 12/31/07)

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

Value of Oil and Gas

Average wellhead price*

Crude oil (\$/bbl.) \$65.37 Natural gas (\$Mcf) \$ 6.63

Wellhead value of production

(2007, in thous. \$)

\$18,565 Crude oil Natural gas \$26,135 Total \$44,700

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$13.42
Commercial consumers	\$11.99
Industrial consumers	\$ 9.32
Electric utilities	NA
City Gate	\$ 8.87
Severance taxes paid	\$1,838

Top Producing Counties

(2007 on a BOE basis)

(2007, in thous. \$)

County	% Production	
	State	US
NA	NA	NA

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Number	or wells	arillea

	Exploratory	Development	Total
Oil	1	9	10
Gas	38	16	54
Dry	NA	7	7
Total	39	32	71

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	1.5	13.0	14.5
Gas	163.2	66.8	230.1
Dry	NA	12.6	12.6
Total	164.7	92.4	257.1
(Note: 1	Totals may not add	due to rounding.)	

New-field wildcats drilled	2
Footage (thous. ft.)	113.

Average rotary rigs active	5

Permits	415
Permits	415

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	25th	22nd
Production	29th	24th
Reserves (2007)	NA	NA

Number of operators -

Number of producing wells

(12/31/07)
Crude oil NA
Natural gas NA
Total NA

Average production

Crude oil (thous. b/d)	NA
NGL (thous. b/d)	NA
Natural gas (MMcf/day)	NA

Total production

Crude oil (YTD bbls, in thous.)	NA
Natural gas (YTD MMcf)	NA

Natural gas marketed production

(MMcf)		3.942

Average output per producing well

Crude oil (bbls.) Natural gas (Mcf)	NA NA
Coalbed methane (YTD MMcf)	NA
Oil Wells	NA

Oli VVCIIO	147
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.) NA Wells NA

Wells NA
Av. bbls per day NA
Av. bbls per well/d NA

Source: For specific methodology and source details, please see pages 6 and 127.

* State Data.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

C	Crude Oil	NGL	Total
New reserves	NA	NA	NA
Production	NA	NA	NA
Net annual change	e NA	NA	NA
Proved reserves	NA	NA	NA

Natural gas reserves

as of 12/31/07 (Bcf)

,	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	NA	NA	NA
Production	NA	NA	NA
Net annual chang	je NA	NA	NA
Proved reserves	NA	NA	NA

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	198	287,164	2,872
Gas	123	523,270	28,257
Dry	176	317,192	2,220

Marginal oil wells

Producing marginal wells	NA
Crude oil production in bbls. (thous.)	NA
Crude oil production b/d (thous.)	NA

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral Lease Royalties, Bonuses & Rent

Oil	
Gas	
Total Rovalties	

Horizontal wells drilled 0

Average number of employees

Oil and natural gas extraction	637
Refining	520
Transportation	2,251
Wholesale	3,524
Retail	23,841
Pipeline construction	696
Oilfield machinery	0
Total petroleum industry	31,469

The Chattanooga Shale Field is actually an extension of the Appalachian Basin Devonian Shale, which is known to most as the Marcellus Shale. The Chattanooga Shale averages 80-200 feet in thickness.

TEXAS



Background Information

Counties

Number of counties	254
With oil and/or gas production	223

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	27,011
Natural gas	30,712

Year and depth of deepest well drilled (ft.)

1983 29,670

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	561.230	52%
	,	
Gas wells	189,738	18%
Dry holes	323,750	30%
Total	1,074,718	100%

Cumulative crude oil wellhead value

\$608,984,741 as of 12/31/07 (thous. \$)

Cumulative production & new reserves as of 12/31/07

Crude	NGL		Natural
Oil	(mill. bbls.)	Total	Gas (Bcf)

Reserves 73,246 21,256 94,502 447,894 Production 68,947 17,095 86,042 426,094

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$68.30
Natural gas (\$Mcf)	\$ 6.98

Wellhead value of production

(2007, in thous. \$)

Crude oil	\$27,107,463
Natural gas	\$42,520,234
Total	\$69,627,697

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$12.00
Commercial consumers	\$ 9.77
Industrial consumers	\$ 6.76
Electric utilities	\$ 6.77
City Gate	\$ 7.84

Severance taxes paid \$2.279.862 (2007, in thous. \$)

Top Producing Counties

County	% Production	
	State	US
Johnson	3.97	1.14
Zapata	3.97	0.89
Panola	3.50	0.78
Tarrant	3.31	0.74
Freestone	3.25	0.73
Hidalgo	3.03	0.68
Webb	2.67	0.60
Pecos	2.66	0.59
Robertson	2.56	0.58
Wise	2.26	0.51

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	Exploratory	Development	Total
Oil	75	4,246	4,321
Gas	147	8,562	8,709
Dry	386	976	1,362
Total	608	13,784	14,392

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	471.4	24,936.9	25,408.2
Gas	1,378.7	83,380.0	84,758.8
Dry	2,964.0	5,718.6	8,682.6
Total	4,814.1	114,035.5	118,849.6
(Note: 7	otals may not add	l due to roundina.)	

New-field wildcats drilled	309
Footage (thous. ft.)	2,368.6

Average rotary rigs active 834

Permits 20,331

Statewide rank

Crude Oil	Natural Gas
1st	1st
2nd	1st
1st	1st
	1st 2nd

Number of operators 4,745

Number of producing wells

 (12/31/07)

 Crude oil
 154,569

 Natural gas
 93,126

 Total
 247,695

Average production

Crude oil (thous. b/d)	936
NGL (thous. b/d)	131.9
Natural gas (MMcf/day)	17,025

Total production

Crude oil (YTD bbls, in thous.)	341,763
Natural gas (YTD MMcf)	6,214,058

Natural gas marketed production

(MMcf) 6,091,724

Average output per producing well

Crude oil (bbls.)	2,211
Natural gas (Mcf)	66,727

Coalbed methane (YTD MMcf) 147

Oil Wells	0
Gas Wells	9
Daily Average (MMcf) / Well	0

Heavy oil (YTD bbls, in thous.)	NA
Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	601	648	970
Production	350	325	675
Net annual cha	inge 251	323	574
Proved reserve	s 5.122	3.658	8.780

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	1,063	16,120	16,518
Production	602	6,029	6,263
Net annual cha	ange 461	10,091	10,255
Proved reserve	es 7,530	68,827	72,091

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	304	1,789,941	7,734,334
Gas	472	4,589,357	39,968,708
Dry	295	1,878,932	2,559,106

Marginal oil wells

Producing marginal wells	147,078
Crude oil production in bbls. (thous.)	142,022
Crude oil production b/d (thous.)	403

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	54,462
Natural gas production (MMcf)	623,976

Mineral Lease Royalties, Bonuses & Rent

Oil	\$ 7,111,160
Gas	\$27,226,759
Total Royalties	\$44,385,789

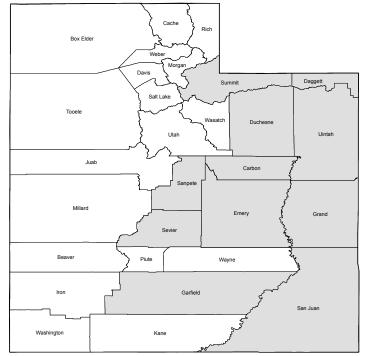
Horizontal wells drilled 3.237

Average number of employees

Oil and natural gas extraction	201,991
Refining	22,017
Transportation	20,452
Wholesale	17,131
Retail	68,019
Pipeline construction	26,595
Oilfield machinery	38,213
Total petroleum industry	394,418

In 2005–2007 horizontal drilling in the Barnett Shale extended south into Johnson, Hill and Bosque counties, with a 100 percent success rate on completed wells. An estimated 70% of U.S. gas shale production comes from the Barnett.

UTAH



OCounties with oil and/or gas production

Background Information

Counties

Number of counties	29
With oil and/or gas production	11

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 — 376 409 MMcf	2007

Deepest producing well (ft.)

Crude oil	20,600
Natural gas	17,000

Year and depth of deepest well drilled (ft.)

1982 21,874

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	7,140	38%
Gas wells	6,721	36%
Dry holes	4,964	26%
Total	18,825	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$19,657,759

Cumulative production & new reserves

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	1,518	1,804	3,322	13,092
Production	1,210	453	1,663	6,641

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$6	32.48
Natural gas (\$Mcf) *	\$	3.86

Wellhead value of production (2007, in thous. \$)

Crude oil

Crude oil	\$1,219,610
Natural gas	\$1,452,939
Total	\$2,672,548

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$9.44
Commercial consumers	\$8.03
Industrial consumers	\$ 6.35
Electric utilities	NA
City Gate	\$7.29

Severance taxes paid \$70,178 (2007, in thous. \$)

Top 10 Producing Counties (2007 on a BOE basis)

County	% Production	
	State	US
Uintah	51.53	0.81
Carbon	20.80	0.25
Duchesne	10.30	0.13
San Juan	6.61	0.08
Emery	3.77	0.05
Summit	2.65	0.03
Sevier	2.41	0.02
Grand	1.59	<0.01
Garfield	0.25	<0.01
Daggett	0.10	<0.01

Number	of wells	drillad
Millimper	OT WEIIS	arillea

	Exploratory	Development	Total
Oil	20	277	297
Gas	42	571	613
Dry	22	29	51
Total	84	877	961

Total footage drilled

(thouse ft)

	Exploratory	Development	Total
Oil	126.3	1,729.7	1,856.0
Gas	327.9	4,926.6	5,254.4
Dry	167.3	105.5	272.7
Total	621.4	6,761.8	7,383.2
(Note: 1	Totals may not add	due to rounding.)	

New-field wildcats drilled	51
Footage (thous. ft.)	367.7

Average rotar	y rigs active	42

Permits 1,601

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	21st	18th
Production	14th	9th
Reserves (2007)	16th	13th

Number of operators 117

Number of producing wells

 (12/31/07)

 Crude oil
 3,107

 Natural gas
 5,257

 Total
 8,364

Average production

 Crude oil (thous. b/d)
 46

 NGL (thous. b/d)
 7.0

 Natural gas (MMcf/day)
 995

Total production

Crude oil (YTD bbls, in thous.) 16,957 Natural gas (YTD MMcf) 348,601

Natural gas marketed production

(MMcf) 376,409

Average output per producing well

Crude oil (bbls.) 5,458 Natural gas (Mcf) 66,312

Coalbed methane (YTD MMcf) 74,425

Oil Wells	2
Gas Wells	866
Daily Average (MMcf) / Well	204

Heavy oil (YTD bbls, in thous.) 183 Wells 19

Av. bbls per day 0.5 Av. bbls per well/d 9,618

Source: For specific methodology and source details, please see pages 6 and 127.

* State Data.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

(Crude Oil	NGL	Total
New reserves	38	321	359
Production	17	68	85
Net annual char	nge 21	253	274
Proved reserves	355	1.140	1.495

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	80	1,541	1,610
Production	29	340	365
Net annual cha	inge 51	1,201	1,245
Proved reserve	es 368	6,095	6,391

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	274	1,711,200	508,226
Gas	562	4,817,178	2,952,930
Dry	356	1,903,445	97,076

Marginal oil wells

Producing marginal wells	2,114
Crude oil production in bbls. (thous.)	4,805
Crude oil production b/d (thous.)	13

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	2,657
Natural gas production (MMcf)	36,895

Mineral Lease Royalties, Bonuses & Rent

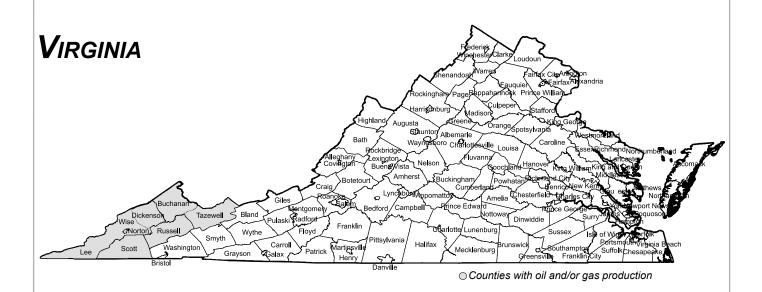
Oil	\$ 111,638,417
Gas	\$155,572,707
Total Royalties	\$345,191,313

Horizontal wells drilled

Average number of employees

Oil and natural gas extraction	5,793
Refining	922
Transportation	1,182
Wholesale	957
Retail	10,067
Pipeline construction	1,042
Oilfield machinery	297
Total petroleum industry	20,260

Over 420 wells were completed in the Natural Buttes Field in 2007. This field was discovered in the late 1960s and continues to be the top producing field in Utah.



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 — 112 057 MMcf	2007

Deepest producing well (ft.)

Crude oil	NA
Natural gas	10,134

Year and depth of deepest well drilled (ft.)

1977 17,003

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	54	1%
Gas wells	5,578	93%
Dry holes	337	6%
Total	5,969	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$11,097

Cumulative production & new reserves as of 12/31/07

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	NA	NA	NA	3,520
Production	NA	NA	NA	1,299

Value of Oil and Gas

Average wellhead price

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

Wellhead value of production (2007, in thous. \$)

Crude oil	NA
Natural gas	NA
Total	NA

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$15.42
Commercial consumers	\$ 11.99
Industrial consumers	\$ 9.33
Electric utilities	\$ 8.42
City Gate	\$ 9.27

Severance taxes paid (2007, in thous. \$)

Top Producing Counties

County	% Prod	% Production	
	State	US	
Buchanan	53.72	0.21	
Dickerson	24.43	0.07	
Russell	7.80	0.02	
Wise	7.06	0.02	
Tazewell	6.72	0.02	
Lee	0.20	< 0.01	
Scott	0.08	< 0.01	

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	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	51	654	705
Dry	NA	NA	NA
Total	51	654	705

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	287.8	1,689.8	1,977.6
Dry	NA	NA	NA
Total	287.8	1,689.8	1,977.6
(Note: Totals may not add due to rounding.)			

New-field wildcats drilled 27 Footage (thous. ft.) 152.6

Average rot	tary rigs activ	'e 3

Permits	840

Statewide rank

Crude Oil	Natural Gas
32nd	20th
32nd	18th
21st	17th
	32nd 32nd

Number of operators* 21

Number of producing wells

(12/31/07)		
Crude oil		0
Natural gas		5,748
Total		5,748

Average production

Crude oil (thous. b/d)	0
NGL (thous. b/d)	0
Natural gas (MMcf/day)	307

Total production

Crude oil (YTD bbls, in thous.)	0
Natural gas (YTD MMcf)	112,224

Natural gas marketed production

(MMcf)	112,057
(IVIIVICI)	112,007

Average output per producing well

Crude oil (bbls.)	NA
Natural gas (Mcf)	19,524

Coalbed methane (YTD MMcf) NA

Oil Wells	NA
Gas Wells	NA
Daily Average (MMcf) / Well	NA

Heavy oil (YTD bbls, in thous.)

-	
Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

* State Data.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

(Crude Oil	NGL	Total
New reserves	NA	NA	NA
Production	NA	NA	NA
Net annual chang	je NA	NA	NA
Proved reserves	NA	NA	NA

Natural gas reserves

as of 12/31/07 (Bcf)

	Associated	Non-	Dry
	Dissolved	Associated	Gas
New reserves	0	336	336
Production	0	109	109
Net annual char	nge 0	227	227
Proved reserves	s 0	2,529	2,529

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	ŇÁ	ŇÁ	NÁ
Gas	142	399,046	281,327
Dry	NA	NA	NA

Marginal oil wells

Producing marginal wells	NA
Crude oil production in bbls. (thous.)	NA
Crude oil production b/d (thous.)	NA

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	4,802
Natural gas production (MMcf)	61,584

Mineral Lease Royalties, Bonuses & Rent

Oil	
Gas	\$373,082
Total Royalties	\$471,348

Horizontal wells drilled 0

Average number of employees

Oil and natural gas extraction	1,579
Refining	914
Transportation	1,947
Wholesale	4,889
Retail	33,892
Pipeline construction	1,616
Oilfield machinery	0
Total petroleum industry	44,837

Discovered in the late 1970s, Keen Mountain Field is the top producing gas field in Virginia. Almost 50% of the gas produced in the state comes from this field.



Background Information

Counties

Number of counties	55
With oil and/or gas production	48

First year of production

Crude oil	1860
Natural gas	1885

Year and amount of peak production

Crude oil — 16,196 thous. bbls.	1900
Natural gas — 264 139 MMcf	2000

Deepest producing well (ft.)

Crude oil	8,381
Natural gas	17,111

Year and depth of deepest well drilled (ft.)

1974 20,222

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	14,525	17%
Gas wells	60,932	73%
Dry holes	7,615	10%
Total	83,073	100%

Cumulative crude oil wellhead value

\$2,910,050 as of 12/31/07 (thous. \$)

Cumulative production & new reserves as of 12/31/07

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	614	502	1,116	24,858
Production	616	417	1,033	20,283

Value of Oil and Gas

Average wellhead price

Crude oil (\$/bbl.)	\$67.20
Natural gas (\$Mcf)	\$ 6.86

Wellhead value of production

(2007, in thous. \$)

Crude oil	\$ 105,883
Natural gas	\$1,585,922
Total	\$1,691,805

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$14.59
Commercial consumers	\$13.37
Industrial consumers	\$ 8.51
Electric utilities	NA
City Gate	\$ 8.62

Severance taxes paid \$80.294 (2007, in thous. \$)

Top 10 Producing Counties (2007 on a BOE basis)

County	% Production	
	State	US
Wyoming	11.44	0.10
McDowell	8.59	0.06
Kanawha	6.70	0.04
Lewis	6.09	0.04
Doddridge	6.02	0.04
Logan	5.93	0.04
Harrison	5.24	0.03
Mingo	4.77	0.03
Boone	3.99	0.03
Ritchie	3.99	0.03

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Number	or wells	arillea

	Exploratory	Development	Total
Oil	1	15	16
Gas	258	1,531	1,789
Dry	3	16	19
Total	262	1,562	1,824

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total	
Oil	2.2	33.4	35.6	
Gas	1,233.8	6,737.2	7,971.0	
Dry	7.9	29.1	37.0	
Total	1,243.8	6,799.8	8,043.6	
(Note: Totals may not add due to rounding.)				

New-field wildcats drilled 48 Footage (thous. ft.) 232.2

Average rotary rigs active	32

Permits 2,815

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	16th	3rd
Production	26th	15th
Reserves (2007)	22nd	11th

Number of operators 595

Number of producing wells

(12/31/07)
Crude oil 2,613
Natural gas 47,476
Total 50,089

Average production

Crude oil (thous. b/d)	3
NGL (thous. b/d)	2.6
Natural gas (MMcf/day)	641

Total production

Crude oil (YTD bbls, in thous.)	1,030
Natural gas (YTD MMcf)	234,103

Natural gas marketed production

(MMcf) 231,184

Average output per producing well

Crude oil (bbls.)	394
Natural gas (Mcf)	4,931

Coalbed methane (YTD MMcf) 1,057

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98
3

Heavy oil (YTD bbls, in thous.)

Wells	NA
Av. bbls per day	NA
Av. bbls per well/d	NA

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

C	rude Oil	NGL	Total
New reserves	7	10	17
Production	2	5	7
Net annual change	5	5	10
Proved reserves	28	115	143

Natural gas reserves

as of 12/31/07 (Bcf)

As	sociated	l Non-	Dry
Di	ssolved	Associated	Gas
New reserves	1	424	412
Production	1	197	192
Net annual change	0	227	220
Proved reserves	16	4,865	4,729

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	145	323,058	5,169
Gas	107	476,574	852,591
Dry	186	362,918	6,895

Marginal oil wells

Producing marginal wells	1,975
Crude oil production in bbls. (thous.)	581
Crude oil production b/d (thous.)	2

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	46,507
Natural gas production (MMcf)	189,735

Mineral Lease Royalties, Bonuses & Rent

Oil	\$	606
Gas	\$ 7	709,267
Total Royalties	\$ 9	925,747

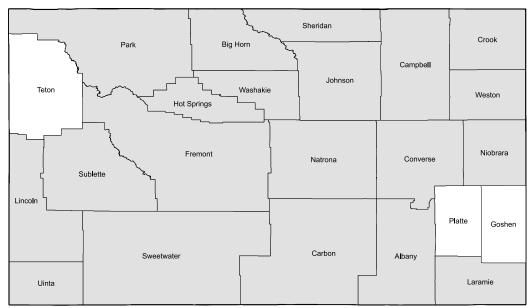
Horizontal wells drilled 21

Average number of employees

Oil and natural gas extraction	5,193
Refining	887
Transportation	2,337
Wholesale	1,015
Retail	9,254
Pipeline construction	965
Oilfield machinery	0
Total petroleum industry	19,651

Discovered before the turn of the century, the Jacksonburg-Stringtown Field in West Virginia is still the top producing oil field in the state.

WYOMING



O Counties with oil and/or gas production

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 — 1 948 640 MMcf	2005

Deepest producing well (ft.)

Crude oil	17,750
Natural gas	25,175

Year and depth of deepest well drilled (ft.)

2004	25.020
2001	25.830

Cumulative number of total wells drilled as of 12/31/07 (excluding service wells)

Oil wells	33,634	32%
Gas wells	41,677	39%
Dry holes	30,061	29%
Total	105,372	100%

Cumulative crude oil wellhead value

as of 12/31/07 (thous. \$) \$73,242,951

Cumulative production & new reserves as of 12/31/07

	Crude	NGL		Natural
	Oil	(mill. bbls.)	Total	Gas (Bcf)
Reserves	7,324	2,277	9,601	61,032
Production	6,775	1,331	8,106	33,458

Value of Oil and Gas

Average wellhead price

(2007)

Crude oil (\$/bbl.)	\$58.34
Natural gas (\$Mcf)	\$ 4.65

Wellhead value of production

(2007, in thous. \$)

Crude oil	\$ 3,157,944
Natural gas	\$ 8,942,992
Total	\$12,100,936

Average natural gas price

(2007, \$/Mcf)

Residential consumers	\$ 8.84
Commercial consumers	\$ 7.89
Industrial consumers	\$ 6.61
Electric utilities	NA
City Gate	\$ 5.90

Severance taxes paid \$595,031

(2007, in thous. \$)

Top 10 Producing Counties (2007 on a BOE basis)

County	% Production		
•	State	US	
Sublette	42.99	3.51	
Campbell	9.45	0.60	
Sweetwater	9.02	0.57	
Johnson	8.83	0.56	
Fremont	8.07	0.51	
Carbon	4.75	0.30	
Lincoln	3.80	0.24	
Uinta	2.79	0.18	
Sheridan	2.62	0.17	
Park	2.46	0.16	

Number	of wells	drillad
Millimper	OT WEIIS	arillea

	Exploratory	Development	Total
Oil	13	161	174
Gas	30	2,743	2,773
Dry	41	73	114
Total	84	2.977	3.061

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	107.8	786.5	894.3
Gas	322.0	13,601.4	13,923.4
Dry	284.4	283.6	568.1
Total	714.3	14,671.5	15,385.8
(Note: Totals may not add due to rounding.)			

New-field wildcats drilled	59
Footage (thous. ft.)	469.0

Average rotary rigs active 74

Permits 4,467

Statewide rank

Crude Oil	Natural gas
9th	6th
8th	3rd
7th	6th
	9th 8th

Number of operators 448

Number of producing wells

 (12/31/07)

 Crude oil
 12,094

 Natural gas
 31,747

 Total
 43,841

Average production

Crude oil (thous. b/d)	115
NGL (thous. b/d)	33.5
Natural gas (MMcf/day)	5,731

Total production

Crude oil (YTD bbls, in thous.) 41,992 Natural gas (YTD MMcf) 2,091,822

Natural gas marketed production

(MMcf) 1,923,224

Average output per producing well

Crude oil (bbls.)	3,472
Natural gas (Mcf)	65,890

Coalbed methane (YTD MMcf) 440,657

Oil Wells	4
Gas Wells	20,749
Daily Average (MMcf) / Well	1,207

Heavy oil (YTD bbls, in thous.) 10,512 Wells 1,950

 Wells
 1,950

 Av. bbls per day
 28.8

 Av. bbls per well/d
 5,391

Source: For specific methodology and source details, please see pages 6 and 127.

2007 Latest Available Data

Petroleum reserves

as of 12/31/07 (mill. bbls.)

(Crude Oil	NGL	Total
New reserves	27	321	348
Production	43	68	111
Net annual change	-16	253	237
Proved reserves	690	1 140	1 830

Natural gas reserves

as of 12/31/07 (Bcf)

Ass	sociated	Non-	Dry
Di	ssolved	Associated	Gas
New reserves	87	8,243	7,986
Production	69	1,828	1,825
Net annual change	18	6,415	6,161
Proved reserves	365	30,531	29,710

Cost of drilling and equipping wells

	Cost/ft.	Cost/	Total Cost
	(\$)	well (\$)	(thous. \$)
Oil	474	2,436,084	423,879
Gas	716	3,594,828	9,968,457
Dry	538	2,681,136	305,649

Marginal oil wells

Producing marginal wells	9,767
Crude oil production in bbls. (thous.)	13,361
Crude oil production b/d (thous.)	37

Marginal natural gas wells

as of 12/31/07

Producing marginal wells	19,592
Natural gas production (MMcf)	195,370

Mineral Lease Royalties, Bonuses & Rent

Oil	\$ 269,051,503
Gas	\$ 777,702,219
Total Royalties	\$1,862,789,851

Horizontal wells drilled 47

Average number of employees

Oil and natural gas extraction Refining	17,837 1,063
Transportation	961
Wholesale	774
Retail	4,143
Pipeline construction	5,046
Oilfield machinery	204
Total petroleum industry	30,028

20% of the gas production in Wyoming is produced in the Power River Basin Coal Bed Field. This region supplies about 40 percent of the coal in the United States.

ROTARY RIGS OPERATING

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	6	6	4	5	3	3	3	4	5	5
Alaska	12	5	8	13	11	10	10	9	8	8
Arizona	0	0	0	0	0	0	0	0	0	0
Arkansas	6	3	4	2	1	2	6	9	24	45
California	28	19	24	36	23	22	24	27	33	35
Colorado	13	13	18	32	28	39	54	74	89	107
Florida	0	0	0	0	0	1	1	2	0	0
Illinois	0	0	0	0	0	0	0	0	0	0
Indiana	0	0	0	0	0	0	0	0	0	0
lowa	0	0	0	0	0	0	0	0	0	2
Kansas	13	7	22	23	8	9	7	7	10	14
Kentucky	3	6	5	6	5	4	5	5	7	9
Louisiana	187	141	194	214	163	157	167	182	188	177
Maryland	0	0	0	0	0	0	0	0	0	1
Michigan	5	2	3	1	1	3	3	3	2	2
Mississippi	14	7	11	14	8	8	10	10	10	14
Montana	9	4	7	10	8	14	20	24	22	17
Nebraska	1	0	1	0	0	0	1	0	0	0
Nevada	0	0	0	0	0	1	2	2	1	2
New Mexico	45	36	68	68	42	65	67	83	94	78
New York	2	3	3	5	4	3	5	4	6	6
North Dakota	11	6	13	14	10	14	15	21	32	39
Ohio	10	11	9	10	9	8	7	9	8	13
Oklahoma	85	62	99	130	91	129	159	152	179	188
Oregon	0	0	0	0	0	0	0	0	0	0
Pennsylvania South Dakota	11	8	9	11	11	10 0	9	13 2	16	16
Tennessee	0 1	1 0	0 0	1 1	0 0	0	1 0	0	1 1	2 5
Texas	303	227	343	462	338	449	506	614	746	834
Utah	12	9	343 16	21	13	14	22	28	40	42
Virginia	2	5	2	2	2	1	1	20	1	3
Washington	0	0	0	1	0	0	0	0	1	0
West Virginia	14	14	14	18	13	16	15	17	27	32
Wyoming	38	32	41	55	40	54	74	78	99	74
vvyorimig	30	32	41	55	40	J 1	14	70	שש	14
TOTAL U.S.	827	625	918	1,156	830	1,032	1,192	1,381	1,649	1,769
ONSHORE	703	517	779	1,002	716	923	1,095	1,287	1,561	1,696
OFFSHORE	124	107	139	154	114	109	97	94	88	73

Source: Baker-Hughes.

Note: Averages may not add up to total due to rounding.

NEW-FIELD WILDCAT WELLS DRILLED

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	18	19	17	19	16	17	22	17	24	35
Alaska	12	5	8	10	10	9	8	0	5	8
Arizona	7	0	0	0	10	9	8	4	1	1
Arkansas	15	13	13	18	10	10	20	13	55	317
California	22	32	42	42	29	26	31	30	13	11
Colorado	60	49	42	71	40	49	64	136	101	125
Florida	0	0	0	0	0	0	0	2	0	0
Georgia	1	0	0	1	0	0	0	0	0	0
Illinois	23	13	20	36	17	33	31	33	31	24
Indiana	9	7	5	19	10	17	20	20	32	15
lowa	0	0	0	1	0	0	0	0	0	0
Kansas	120	82	147	215	155	160	180	227	277	261
Kentucky	18	16	26	87	84	123	151	124	239	176
Louisiana	80	76	83	63	74	61	59	59	51	50
Maryland	0	0	0	0	0	0	0	0	0	0
Michigan	40	22	20	19	24	19	23	17	28	23
Mississippi	29	29	25	28	38	33	29	33	30	40
Missouri	1	3	1	3	2	0	0	0	0	0
Montana	67	45	56	90	95	121	159	168	138	107
Nebraska	14	9	15	12	14	15	16	18	20	21
Nevada	6	1	3	3	2	3	3	5	1	2
New Mexico	40	38	44	58	32	61	77	45	65	45
New York	9	16	22	39	35	25	47	2	13	28
North Carolina	2	0	0	0	0	0	0	0	0	0
North Dakota	28	16	19	19	9	4	25	45	104	105
Ohio	21	1	0	5	6	4	2	13	16	33
Oklahoma	63	57	65	102	69	97	102	110	181	262
Oregon	1	0	0	0	0	0	0	0	0	0
Pennsylvania	2	5	4	23	15	37	67	142	217	338
South Dakota	5	1	1	1	6	5	1	6	4	12
Tennessee	4	8	9	11	23	42	25	33	79	27
Texas	581	453	517	432	345	434	476	464	387	309
Utah	23	15	6	20	30	12	22	32	53	51
Virginia	0	1	7	4	8	7	1	2	6	27
Washington	1	1	1	1	0	0	0	0	0	2
West Virginia	3	5	10	32	29	18	28	23	36	48
Wyoming	107	89	77	78	74	85	86	80	68	59
Federal Offshor	re 54	66	106	106	70	83	81	158	146	132
TOTAL U.S.	1,487	1,193	1,411	1,668	1,372	1,610	1,857	1,936	2,275	2,562

Source: IHS.

Note: Data include oil wells, gas wells, and dry holes and may not total due to Federal Offshore data duplication.

EXPLORATORY WELLS DRILLED

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	19	20	17	22	17	23	36	27	33	49
Alaska	13	5	8	14	17	11	13	18	11	15
Arizona	7	0	1	0	1	0	1	4	1	1
Arkansas	15	13	14	23	10	12	26	35	78	360
California	66	67	80	90	64	50	60	62	30	24
Colorado	135	104	88	137	57	82	100	204	158	171
Florida	0	0	0	0	0	0	0	2	0	0
Georgia	1	0	0	1	0	0	0	0	0	0
Illinois	75	37	51	47	33	46	47	45	67	84
Indiana	33	20	10	19	12	37	24	35	45	33
lowa	0	0	0	1	0	0	0	0	0	0
Kansas	190	148	251	400	281	292	345	416	452	479
Kentucky	63	46	58	121	125	173	269	269	489	419
Louisiana	92	85	87	64	83	72	73	70	64	65
Maryland	0	0	0	0	0	0	0	0	0	0
Michigan	44	30	23	25	30	23	27	23	34	32
Mississippi	30	31	33	33	43	41	33	44	40	52
Missouri	1	3	1	3	2	0	0	0	0	0
Montana	119	65	100	177	156	187	248	287	255	190
Nebraska	18	17	30	19	17	22	18	29	31	33
Nevada	7	1	3	4	2	3	3	5	1	2
New Mexico	128	104	95	115	75	98	103	94	114	75
New York	11	18	26	46	38	32	59	27	15	62
North Carolina	2	0	0	0	0	0	0	0	0	0
North Dakota	88	41	51	52	22	23	53	73	165	241
Ohio	55	25	26	35	27	22	24	38	47	122
Oklahoma	86	67	103	188	109	209	251	276	324	596
Oregon	2	5	0	0	0	0	0	0	0	0
Pennsylvania	7	13	10	31	29	70	206	436	649	959
South Dakota	7	2	1	2	6	5	4	7	4	12
Tennessee	11	12	21	16	26	54 7 00	56	71	117	39
Texas	1,033	789	848	1,000	706	786	762	732	688	608
Utah	45	23	19	72	41	35	47	68	125	84
Virginia	1	1	9	5	14	10	2	6	14	51
Washington	1	1	0	1	0	0	0	0	0	2
West Virginia	11	18	28	76	88	41	144	196	207	262
Wyoming	180	143	142	178	151	143	126	130	110	84
Federal Offshore	e 74	78	106	106	70	83	81	166	155	140
TOTAL U.S.	2,670	2,032	2,340	3,123	2,352	2,685	3,241	3,729	4,368	5,206

Source: IHS

Note: Data include oil wells, gas wells, and dry holes and may not total due to Federal Offshore data duplication.

DEVELOPMENT WELLS DRILLED

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	168	205	152	346	246	371	405	416	407	505
Alaska	200	94	128	164	179	165	193	155	121	133
Arizona	0	1	0	0	0	0	0	0	0	1
Arkansas	177	136	155	227	144	216	278	299	417	470
California	2,134	1,478	2,113	2,181	1,925	1,928	2,161	2,234	2,464	2,343
Colorado	720	636	955	1,392	1,332	1,511	1,892	2,506	2,845	3,269
Florida	1	0	4	0	1	0	0	1	0	0
Illinois	339	213	328	367	289	308	277	379	411	353
Indiana	55	34	53	117	81	145	125	128	72	80
Kansas	728	497	911	1,099	902	1,339	1,542	1,867	2,709	2,770
Kentucky	587	601	729	865	891	752	573	680	805	850
Louisiana	1,098	757	1,031	1,217	790	1,003	1,188	1,381	1,569	1,565
Maryland	0	1	0	0	0	0	0	0	0	0
Michigan	540	298	374	414	337	353	403	505	524	450
Mississippi	159	86	192	242	168	240	237	255	253	280
Missouri	1	5	14	6	0	1	0	0	0	0
Montana	242	383	418	406	388	644	504	682	863	672
Nebraska	14	3	11	13	14	16	32	46	34	132
Nevada	4	1	1	3	2	0	0	0	0	0
New Mexico	1,097	935	1,461	1,574	1,200	1,526	1,686	1,812	1,914	1,763
New York	54	69	70	77	54	46	77	133	227	288
North Dakota	145	42	121	158	154	199	168	227	322	278
Ohio	517	495	547	690	493	493	525	539	637	684
Oklahoma	1,847	1,582	2,176	2,982	2,351	2,783	2,884	3,248	3,671	2,992
Oregon	5	5	0	0	0	0	0	0	0	0
Pennsylvania	1,502	1,362	1,591	2,232	2,183	2,505	2,290	2,908	3,611	3,210
South Dakota	3	4	10	9	6	3	8	34	21	36
Tennessee	98	109	165	103	81	198	146	163	168	32
Texas	7,012	4,697	6,931	8,052	6,534	8,592	9,522	10,800	12,272	13,784
Utah	455	237	414	549	383	381	554	709	880	877
Virginia	221	278	245	304	291	358	361	318	531	654
Washington	0	0	0	0	0	0	2	0	0	0
West Virginia	764	670	653	887	870	974	1,081	1,212	1,584	1,562
Wyoming	1,075	2,438	4,744	5,331	3,045	2,768	3,717	4,330	4,024	2,977
Federal Offsho	ore 893	794	939	952	612	630	615	551	483	415
	00.0=0	40 =00	00.046	00 10 1	05 454	00 000	00.045		40.005	40.046
TOTAL U.S.	22,076	18,506	26,843	32,184	25,454	29,923	32,945	37,967	43,805	43,010

Source: IHS.

Note: Data include oil wells, gas wells, and dry holes and may not total due to Federal Offshore data duplication.

TOTAL WELLS DRILLED

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	187	225	169	368	263	394	441	443	440	554
Alaska	213	99	136	178	196	176	206	173	132	148
Arizona	7	1	1	0	1	0	1	4	1	2
Arkansas	192	149	169	250	154	228	304	334	495	830
California	2,200	1,545	2,193	2,271	1,989	1,978	2,221	2,296	2,494	2,367
Colorado	855	740	1,043	1,529	1,389	1,593	1,992	2,710	3,003	3,440
Florida	1	0	4	0	1	0	0	3	0	0
Georgia	1	0	0	1	0	0	0	0	0	0
Illinois	414	250	379	414	322	354	324	424	478	437
Indiana	88	54	63	136	93	182	149	163	117	113
lowa	0	0	0	1	0	0	0	0	0	0
Kansas	918	645	1,162	1,499	1,183	1,631	1,887	2,283	3,161	3,249
Kentucky	650	647	787	986	1,016	925	842	949	1,294	1,269
Louisiana	1,190	842	1,118	1,281	873	1,075	1,261	1,451	1,633	1,630
Maryland	0	1	0	0	0	0	0	0	0	0
Michigan	584	328	397	439	367	376	430	528	558	482
Mississippi	189	117	225	275	211	281	270	299	293	332
Missouri	2	8	15	9	2	1	0	0	0	0
Montana	361	448	518	583	544	831	752	969	1,118	862
Nebraska	32	20	41	32	31	38	50	75	65	165
Nevada	11	2	4	7	4	3	3	5	1	2
New Mexico	1,225	1,039	1,556	1,689	1,275	1,624	1,789	1,906	2,028	1,838
New York	65	87	96	123	92	78	136	160	242	350
North Carolina	2	0	0	0	0	0	0	0	0	0
North Dakota	233	83	172	210	176	222	221	300	487	519
Ohio	572	520	573	725	520	515	549	577	684	806
Oklahoma	1,933	1,649	2,279	3,170	2,460	2,992	3,135	3,524	3,995	3,588
Oregon	7	10	0	0	0	0	0	0	0	0
Pennsylvania	1,509	1,375	1,601	2,263	2,212	2,575	2,496	3,344	4,260	4,169
South Dakota	10	6	11	11	12	8	12	41	25	48
Tennessee	109	121	186	119	107	252	202	234	285	71
Texas	8,045	5,486	7,779	9,052	7,240	9,378	10,284	11,532	13,409	14,392
Utah	500	260	433	621	424	416	601	777	1,005	961
Virginia	222	279	254	309	305	368	363	324	545	705
Washington	1	1	0	1	0	0	2	0	0	2
West Virginia	775	688	681	963	958	1,015	1,225	1,408	1,791	1,824
Wyoming	1,255	2,581	4,886	5,509	3,196	2,911	3,843	4,460	4,134	3,061
Federal Offshor	re 1,078	971	1,135	1,158	758	807	786	716	638	555
TOTAL U.S.	25,636	21,277	30,066	36,182	28,374	33,227	36,777	41,696	48,173	48,216

Source: IHS

Note: Data include oil wells, gas wells, and dry holes and may not total due to Federal Offshore data duplication.

PRODUCING CRUDE WELLS

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	549	521	502	494	481	485	502	557	493	488
Alaska	2,349	2,256	2,243	2,304	2,310	2,283	2,384	2,505	2,465	2,402
Arizona	29	30	28	27	24	24	21	23	25	22
Arkansas	2,352	2,167	2,244	5,498	4,385	2,718	2,143	2,138	2,505	2,487
California	46,267	45,293	46,654	47,148	46,811	47,060	47,666	48,239	49,705	50,591
Colorado	5,370	5,305	5,400	5,322	5,272	5,133	5,140	5,088	5,049	4,999
Florida	99	88	79	73	72	96	67	76	65	64
Kansas	45,683	42,539	42,358	41,774	41,629	41,261	40,167	40,024	40,349	40,782
Louisiana	19,290	18,300	19,604	18,530	17,996	17,991	17,569	17,463	17,999	17,751
Michigan	2,519	2,631	3,688	3,845	3,672	3,790	3,761	3,887	3,847	3,875
Mississippi	1,796	1,715	1,742	1,768	1,616	1,664	1,685	1,647	1,788	1,937
Montana	3,735	3,617	3,741	4,409	3,662	3,713	3,918	4,052	4,272	4,873
Nebraska	1,424	1,269	1,270	1,250	1,224	1,222	1,224	1,211	1,229	1,211
Nevada	75	70	69	69	71	71	68	71	68	74
New Mexico	18,517	18,189	18,809	19,512	19,420	19,652	20,034	20,553	21,219	21,644
New York*	3,464	3,739	3,627	2,876	3,213	3,117	3,095	3,270	2,767	3,190
North Dakota	3,483	3,391	3,418	3,481	4,224	3,519	3,779	3,506	3,512	4,841
Ohio	16,222	15,443	16,760	17,277	17,529	17,165	17,147	17,436	17,867	16,192
Oklahoma	66,986	64,254	61,074	60,923	58,088	53,530	52,326	51,869	54,408	51,160
South Dakota	148	143	144	144	143	143	145	162	153	163
Texas	175,147	166,711	163,487	161,943	158,410	154,932	152,693	152,045	153,455	154,569
Utah	2,201	2,112	2,142	2,201	2,163	2,217	2,433	2,685	2,953	3,107
West Virginia	1,895	1,558	1,263	1,708	2,188	1,469	2,099	2,115	2,107	2,613
Wyoming	11,775	11,599	11,910	11,921	11,716	11,688	11,743	12,147	12,813	12,094
Federal Offsho	ore 4,405	4,256	4,240	4,235	4,127	3,957	3,840	3,631	3,146	3,554

TOTAL U.S. 435,780 417,196 416,496 418,732 410,446 398,900 395,649 396,400 404,259 404,683

Source: IHS. Total includes onshore and offshore counts.

^{*} DeGolyer MacNaughton

PRODUCING NATURAL GAS WELLS

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	3,469	3,497	3,698	3,891	4,130	4,460	4,784	5,122	5,523	5,728
Arizona	7	7	7	7	8	6	7	4	5	5
Arkansas	3,117	3,073	3,336	3,454	3,510	3,704	3,959	4,298	4,481	4,955
California	1,287	1,309	1,359	1,484	1,416	1,467	1,497	1,579	1,715	1,806
Colorado	13,541	16,040	16,824	18,137	19,280	20,821	22,693	25,570	28,407	31,920
Kansas	15,789	15,781	18,069	16,684	17,827	16,998	17,740	18,417	19,891	20,978
Kentucky	9,598	9,859	10,225	10,541	11,038	11,510	12,298	11,754	12,771	16,140
Louisiana	13,931	13,889	13,907	8,405	8,250	8,367	8,734	9,385	10,679	11,245
Michigan	6,992	7,152	7,234	7,642	7,957	8,282	8,524	9,009	9,444	9,792
Mississippi	648	665	765	913	992	1,151	1,284	1,469	1,574	1,714
Montana	3,531	3,862	4,115	4,419	4,603	4,864	5,299	5,716	6,200	6,206
Nebraska	100	108	99	102	104	108	112	115	117	195
New Mexico	21,512	22,225	23,213	24,506	25,454	26,687	28,160	29,723	31,246	32,535
New York	5,638	5,722	5,713	6,120	5,544	6,517	6,707	6,661	6,764	7,138
North Dakota	83	82	92	100	97	111	133	208	371	303
Ohio	21,619	20,661	22,011	22,585	22,426	22,613	22,212	22,151	23,123	20,507
Oklahoma	24,633	25,200	26,297	27,829	29,077	30,551	32,214	34,081	36,358	38,164
Oregon	20	21	18	18	16	16	16	14	13	12
South Dakota	56	56	58	58	58	58	60	60	62	64
Texas	59,072	59,760	61,388	64,760	66,747	70,056	74,550	79,879	86,272	93,126
Utah	1,812	2,060	2,353	2,792	3,118	3,392	3,715	4,171	4,781	5,257
Virginia	2,064	2,367	2,682	2,891	3,142	3,421	3,856	4,238	5,007	5,748
West Virginia	40,298	39,429	29,977	39,465	40,846	39,763	41,309	44,172	41,364	47,476
Wyoming	6,119	7,470	11,115	15,705	19,269	21,099	23,749	26,475	29,875	31,747
Federal Offsho	re 4,645	4,606	4,628	4,672	4,374	4,277	4,137	3,878	3,367	3,487

TOTAL U.S. 259,581 264,901 269,183 287,180 299,283 310,299 327,749 348,333 369,410 396,248

Source: IHS. Data not available for certain states.

^{*} Alaska is not included as produced natural gas is re-injected in order to maintain reservoir pressure.

^{*} Previous year data may be revised.

CRUDE OIL PRODUCTION

(thous. bbls.)	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	7,453	6,406	5,983	5,415	5,163	4,970	4,662	5,197	5,276	4,951
Alaska	429,232	383,199	355,149	351,466	359,496	362,371	335,740	335,740	269,150	262,427
Arizona	74	62	55	58	61	45	50	48	53	41
Arkansas	7,093	6,187	6,454	6,873	6,470	6,586	5,845	5,388	5,292	5,249
California	284,232	273,222	271,027	260,545	255,195	247,393	239,485	228,811	222,874	217,986
Colorado	16,668	13,971	13,884	13,209	12,771	12,682	12,014	11,764	11,357	10,756
Florida	5,938	4,888	4,624	4,406	3,644	3,263	2,875	2,585	2,349	2,080
Illinois	12,807	11,274	10,906	10,198	11,127	11,707	10,699	8,899	10,324	9,609
Indiana	2,179	1,962	2,035	2,073	1,969	1,870	1,729	1,595	1,714	1,723
Kansas	36,644	34,084	34,238	33,957	33,056	33,711	33,802	33,897	35,621	36,434
Kentucky	1,372	1,459	1,545	1,490	1,381	1,347	1,210	1,215	1,181	2,618
Louisiana	90,606	80,263	75,860	71,204	60,626	58,658	56,983	50,835	49,443	52,528
Michigan	7,360	6,846	7,502	7,070	6,583	6,230	5,763	5,744	5,686	5,394
Mississippi	19,620	16,389	18,564	18,040	16,781	15,678	15,635	16,402	16,103	19,034
Montana	16,688	15,346	15,719	16,172	16,940	19,309	24,674	32,655	36,027	34,815
Nebraska	3,166	2,666	2,953	2,911	2,746	2,810	2,520	2,405	2,297	2,333
Nevada	799	706	621	571	553	492	463	446	426	410
New Mexico	63,591	59,667	61,659	60,957	58,293	57,004	56,723	54,530	53,661	53,300
New York	0	0	0	0	0	94	110	92	188	267
North Dakota	35,071	32,360	32,042	30,653	29,876	28,413	30,142	34,092	36,763	42,249
Ohio	5,163	4,563	4,935	5,532	4,917	4,521	4,264	4,250	4,372	3,958
Oklahoma	71,992	65,297	62,930	61,248	58,543	56,770	54,899	52,288	53,947	51,093
Oregon	0	0	0	0	0	0	0	0	0	0
South Dakota	1,208	1,100	1,162	1,246	1,209	1,239	1,356	1,415	1,394	1,653
Texas	459,255	408,993	400,930	380,943	365,891	359,907	351,459	347,614	346,079	341,763
Utah	17,042	14,560	14,156	13,913	12,610	12,089	13,718	15,298	15,965	16,957
West Virginia	627	533	538	706	571	768	586	676	788	1,030
Wyoming	58,893	52,901	52,987	48,963	46,020	43,174	41,689	41,452	42,287	41,992
	2,070,229		470,192 1,928,649				476,795 1,785,890		431,321 1,661,939	427,571 1,650,220
DAILY AVG.	6,252	5,881	5,822	5,801	5,746	5,681	5,419	5,178	4,553	4,521

Source: IHS.

Notes: Daily Average derived from IHS data.

NATURAL GAS PRODUCTION

(MMcf)	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama 4	28,112	415,442	396,775	381,831	370,977	355,701	324,437	301,634	290,530	264,468
Arizona	404	333	281	239	236	183	218	154	522	590
Arkansas 1	52,174	146,407	149,085	149,662	147,897	153,236	170,222	182,452	192,991	262,629
	78,588	90,546	86,347	89,748	78,277	83,695	75,362	81,952	90,504	89,845
Colorado 6	73,310	706,407	758,839	803,229	912,289	997,085	1,062,396	1,120,614	1,217,865	1,273,254
Kansas 6	12,428	574,048	528,307	490,685	464,540	431,149	405,594	386,067	378,032	371,782
Kentucky	72,949	75,096	76,073	77,031	81,344	83,452	85,668	79,419	85,840	95,247
Louisiana 1,3	87,931	1,310,820	1,322,815	1,371,071	1,261,846	1,252,126	1,266,290	1,219,382	1,290,156	1,279,855
Michigan 2	47,144	227,506	215,038	203,038	192,482	178,082	170,023	161,614	159,295	151,701
Mississippi 1	19,764	120,227	110,869	132,500	142,950	157,847	170,157	183,103	206,269	268,328
Montana	52,105	55,197	64,740	74,416	79,235	78,092	87,046	91,456	93,199	88,833
Nebraska	1,209	1,021	861	871	894	1,183	1,217	939	898	1,282
New Mexico 1,4				1,466,020	1,412,648	1,375,603		1,358,029	1,352,226	1,294,420
	17,034	17,148	18,476	30,181	36,252	35,725	45,785	53,535	39,741	54,586
North Dakota	16,108	13,732	12,896	14,744	14,485	12,823	13,329	13,150	17,216	18,546
Ohio	87,785	74,411	74,125	72,225	70,426	68,428	66,562	60,451	62,021	55,657
Oklahoma 1,4		1,393,706	1,433,317	1,448,236	1,396,439	1,412,925	1,446,878	1,486,872	1,557,944	1,595,177
Oregon	1,263	1,555	1,596	1,115	840	734	468	457	624	371
South Dakota	760	685	598	538	510	523	509	428	438	453
Texas 4,8	54,011	4,715,593	4,869,777	4,940,417	4,886,656	4,962,056	5,072,699	5,319,815	5,647,050	6,214,058
	53,950	239,524	244,989	265,032	260,714	257,510	264,789	281,368	321,626	348,601
•	57,137	66,605	71,458	71,468	76,828	80,086	85,752	89,217	102,798	112,224
West Virginia 1	72,312	218,565	161,940	190,798	194,328	183,091	195,084	215,145	205,051	234,103
Wyoming 1,0	45,758	1,118,077	1,266,885	1,390,353	1,539,308	1,636,903	1,735,410	1,839,625	1,948,640	2,091,822
Fed. Offshore 4,4	06,420	4,316,714	4,177,882	4,278,528	3,829,757	3,715,894	3,355,752	2,594,879	2,376,086	2,292,279
TOTAL U.S. 17,4	199,544	17,286,958	17,434,509	17,872,507	17,375,334	17,434,045	17,388,474	17,250,875	17,637,563	18,460,113

Source: IHS. Data not available for certain states. Data is dry natural gas production.

* Alaska data is not included as produced natural gas is re-injected in order to maintain reservoir pressure.

PRODUCING MARGINAL OIL WELLS

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	317	307	295	305	300	304	320	387	320	308
Alaska	128	95	101	136	145	151	140	144	153	163
Arizona	26	27	25	24	22	23	19	22	24	21
Arkansas	1,920	1,871	2,002	5,334	4,141	2,427	1,910	1,925	2,255	2,263
California	29,484	28,803	30,194	31,274	31,314	31,770	33,010	34,338	36,121	37,399
Colorado	4,461	4,437	4,504	4,454	4,455	4,344	4,384	4,334	4,318	4,275
Florida	12	11	9	7	13	33	11	15	8	12
Illinois	5,848	5,463	5,500	5,102	5,166	5,107	5,148	4,964	5,269	7,060
Indiana	1,212	1,124	1,142	1,114	1,108	1,043	1,051	995	1,061	1,790
Kansas	44,914	41,825	41,716	41,141	40,933	40,607	39,386	39,250	39,582	39,908
Kentucky	1,107	1,078	1,060	1,034	995	981	965	947	994	1,375
Louisiana	15,633	15,205	14,894	15,737	15,377	15,587	15,129	15,288	15,670	15,528
Michigan	2,120	2,240	3,306	3,520	3,386	3,502	3,508	3,665	3,608	3,674
Mississippi	948	919	864	867	793	822	850	883	964	1,033
Montana	2,786	2,733	2,810	3,465	2,714	2,731	2,817	2,853	2,944	2,944
Nebraska	1,335	1,199	1,190	1,172	1,154	1,140	1,177	1,157	1,182	1,153
Nevada	39	32	35	38	39	42	40	45	45	50
New Mexico	14,954	14,727	15,324	15,893	15,916	16,181	16,602	17,114	17,761	18,257
New York	NA	NA	NA	NA	NA	2,249	2,164	1,966	2,073	2,259
North Dakota	2,053	2,019	2,035	2,085	2,819	2,163	2,412	2,164	2,179	3,289
Ohio	14,035	13,809	14,812	15,251	15,762	15,162	15,308	15,360	15,570	NA
Oklahoma	61,599	59,045	56,384	56,346	53,846	49,700	48,542	47,937	48,277	46,988
South Dakota	58	57	57	54	52	61	64	75	71	70
Texas	153,113	145,466	146,200	145,415	142,031	139,807	138,498	138,295	140,393	142,022
Utah	1,252	1,288	1,315	1,360	1,421	1,442	1,582	1,756	1,982	2,144
West Virginia	1,787	1,456	1,143	1,544	2,016	1,201	1,722	1,480	1,689	1,975
Wyoming	9,020	8,997	9,248	9,360	9,237	9,355	9,473	9,911	10,517	9,767
Federal Offsho	ore 678	599	630	669	707	640	648	755	621	608
TOTAL U.S.	370,838	354,832	356,795	362,701	355,862	348,575	346,876	348,021	355,651	346,305

Source: IHS.

Notes: A marginal oil well is defined as a well producing 15 barrels/day or less.

* Previous year data may be revised.

MARGINAL OIL WELL PRODUCTION

(thous. bbls.	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	731	709	703	748	752	754	740	809	706	693
Alaska	257	176	185	252	288	243	264	193	322	287
Arizona	40	30	30	39	34	32	24	37	40	27
Arkansas	2,667	2,910	3,103	4,095	3,212	2,881	3,042	3,046	2,878	2,898
California	59,951	58,766	62,439	63,431	62,603	62,889	64,825	66,663	69,579	70,860
Colorado	3,831	3,591	3,768	3,881	4,212	4,199	4,188	4,028	3,967	3,611
Florida	23	20	23	20	35	46	27	25	20	37
Illinois	5,884	5,507	5,551	5,068	5,227	5,267	5,104	4,249	5,153	5,780
Indiana	1,255	1,149	1,186	1,178	1,102	1,063	1,020	916	1,085	1,372
Kansas	27,114	26,276	25,835	25,504	25,250	25,016	24,607	24,541	25,262	24,772
Kentucky	847	793	804	799	753	698	701	677	671	773
Louisiana	11,562	10,702	10,617	10,342	10,043	9,773	9,547	10,029	9,494	9,894
Michigan	1,753	1,769	3,304	3,460	3,367	3,374	3,427	3,443	3,303	3,232
Mississippi	2,176	1,913	1,997	1,994	1,855	1,966	2,010	2,121	2,202	2,324
Montana	3,331	3,223	3,413	3,457	3,344	3,350	3,352	3,508	3,527	3,535
Nebraska	2,228	2,010	1,981	1,857	1,826	1,777	1,842	1,711	1,676	1,575
Nevada	84	60	71	89	92	90	91	103	117	125
New Mexico	19,876	19,574	20,064	20,549	20,516	20,825	21,045	21,788	22,252	22,618
New York	NA	NA	NA	NA	NA	94	110	92	188	267
North Dakota	a 4,459	4,318	4,572	4,658	4,648	4,815	4,531	4,601	4,794	4,931
Ohio	3,918	3,692	4,042	4,364	4,152	3,871	3,669	3,716	3,709	NA
Oklahoma	44,715	41,612	41,413	41,037	39,526	37,636	36,618	34,834	35,148	33,749
South Dakot		164	198	194	166	208	217	229	212	179
Texas	157,315	150,271	153,498	151,564	147,152	145,505	142,581	142,740	145,290	147,078
Utah	2,682	2,743	2,872	2,875	3,010	3,110	3,391	3,908	4,168	4,805
West Virginia		317	330	351	370	343	384	422	463	581
Wyoming	13,752	13,494	13,785	13,611	13,344	13,383	13,289	13,448	13,312	13,361
Fed Offshore	e 1,583	1,351	1,398	1,574	1,675	1,527	1,528	1,889	1,372	1,413
TOTAL U.S.	372,603	357,140	367,182	366,993	358,554	354,735	352,166	353,755	360,909	360,777

Notes: A marginal oil well is defined as a well producing 15 barrels/day or less.

* Previous year data may be revised.

PRODUCING MARGINAL NATURAL GAS WELLS

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	1,835	1,928	2,199	2,403	2,591	2,889	3,187	3,639	4,164	4,563
Arizona	2	3	3	3	5	2	2	2	2	2
Arkansas	1,822	1,809	2,019	2,149	2,208	2,383	2,519	2,736	2,892	2,996
California	588	619	685	676	693	701	720	777	836	899
Colorado	10,254	12,433	12,675	13,356	13,738	14,729	16,105	18,560	20,477	22,939
Kansas	7,939	8,355	10,967	10,223	12,044	11,891	13,531	15,083	17,196	18,776
Kentucky	9,444	9,684	10,074	10,405	10,868	11,329	12,129	11,616	12,617	NA
Louisiana	10,060	10,053	10,026	4,343	4,164	4,219	4,330	4,645	4,851	5,146
Michigan**	4,164	4,513	4,853	5,670	6,278	7,028	7,454	8,143	8,663	9,220
Mississippi	290	296	389	447	506	684	808	933	1,063	1,194
Montana	3,208	3,446	3,634	3,854	4,002	4,262	4,533	4,790	5,272	5,334
Nebraska	95	106	97	99	101	105	108	111	114	176
New Mexico	13,170	13,378	14,010	14,853	15,601	16,501	17,636	19,191	20,460	21,995
New York	5,569	5,653	5,590	6,147	6,282	6,165	6,421	6,429	6,640	6,898
North Dakota	64	61	64	65	60	73	79	104	156	188
Ohio	20,937	20,030	21,402	22,060	21,908	22,159	21,845	22,082	24,992	20,001
Oklahoma	14,340	15,069	16,135	17,605	18,924	20,321	21,716	23,393	24,955	26,707
Oregon	12	12	10	9	9	10	11	11	10	9
South Dakota	54	54	56	58	57	57	59	60	62	63
Texas	34,686	35,810	36,844	39,070	40,295	42,003	44,648	47,299	50,945	54,462
Utah	854	977	1,055	1,268	2,105	1,650	1,802	2,105	2,394	2,657
Virginia	1,518	1,695	2,003	2,260	2,440	2,702	3,085	3,438	4,117	4,802
West Virginia	39,699	38,724	29,366	38,704	40,052	38,843	40,451	43,242	40,544	46,507
Wyoming	1,959	2,804	4,664	7,162	9,591	11,127	13,443	15,526	18,060	19,592
Federal Offsh	ore 668	687	739	771	818	809	796	890	723	735
TOTAL U.S.*	183,230	188,200	189,559	203,660	214,694	222,642	237,418	254,805	272,205	275,861

Source: IHS.

Notes: A marginal natural gas well is defined as a well producing 90 thousand cubic feet per day or less.

^{*} Row may not total because it includes Pacific Coastal wells.

** Michigan data pre-2007 was derived from a calculated gas well count that increased well production and marginal well count compared to actual well counts used thereafter.

MARGINAL NATURAL GAS PRODUCTION

(Mmcf)	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	28,073	30,121	33,921	37,297	39,224	44,565	47,877	53,491	60,237	66,314
Arizona	4	35	25	4	60	37	28	30	26	21
Arkansas	24,825	25,571	28,215	28,883	30,392	30,260	33,485	36,095	38,061	39,750
California	7,533	7,979	7,831	8,619	8,730	8,910	9,084	9,713	10,121	11,405
Colorado	124,522	126,150	129,869	141,619	153,957	172,671	195,752	219,516	244,131	259,934
Kansas	111,668	119,075	129,410	149,617	165,687	178,241	202,041	222,510	240,039	250,779
Kentucky	66,065	67,591	69,400	71,156	74,072	75,513	78,805	73,076	78,304	NA
Louisiana	40,685	39,714	40,557	38,498	38,898	39,256	40,053	43,622	47,268	50,148
Michigan**	76,208	80,430	87,452	98,625	104,662	114,313	117,082	123,811	124,848	128,265
Mississippi	4,112	4,282	5,837	7,091	8,692	11,223	12,821	13,051	14,679	16,053
Montana	27,769	28,823	30,391	32,251	35,138	37,138	37,945	40,639	43,571	43,672
Nebraska	1,090	957	744	803	790	871	833	745	809	1,282
New Mexico	167,627	173,304	181,395	189,482	198,763	210,703	229,172	247,133	261,701	274,675
New York	13,299	12,512	12,181	12,152	11,770	11,015	10,892	10,885	11,582	12,755
North Dakota	419	390	430	440	446	570	679	967	1,726	2,262
Ohio	61,009	54,241	56,226	57,316	56,954	55,331	53,979	50,250	52,003	47,802
Oklahoma	186,905	195,411	211,217	225,447	240,546	257,931	270,739	288,113	304,086	320,222
Oregon	68	125	154	79	112	113	117	138	158	134
South Dakota	668	600	523	538	473	483	466	428	438	420
Texas	400,261	410,593	421,242	445,556	456,420	479,600	508,976	538,749	583,720	623,976
Utah	12,728	14,112	15,922	19,656	21,997	25,294	27,679	30,932	35,244	36,895
Virginia	20,351	23,534	28,446	31,964	35,408	36,924	40,141	43,994	53,268	61,584
West Virginia	151,707	159,474	126,932	157,127	162,879	152,036	161,214	175,204	167,499	189,735
Wyoming	27,853	36,181	56,571	88,040	110,670	136,706	157,753	174,246	187,707	195,370
Federal Offshor	re 7,710	8,277	9,158	10,033	10,078	9,897	9,722	11,030	8,802	9,109

TOTAL U.S.* 1,563,160 1,619,483 1,655,603 1,853,471 1,967,418 2,091,600 2,247,334 2,408,367 2,570,029 2,642,563

Source: IHS.

Notes: A marginal natural gas well is defined as a well producing 90 thousand cubic feet per day or less.

^{*} Row may not total because it includes Pacific Coastal wells.

^{*} Totals may not add due to rounding.

^{**} Michigan data pre-2007 was derived from a calculated gas well count that increased well production and marginal well count compared to actual well counts used thereafter.

Cost of Drilling and Equipping Wells 2007

State	No. of Wells Drille	d Footage Drilled	Depth per Well	Total Cost	Cost per Well	Cost per Foot
		(ft.)			(\$)
Alabama	554	1,821,607	3,288	665,068,000	1,200,484	365.10
Alaska	148	1,055,588	7,132	4,025,116,000	27,196,730	3,813.15
Arizona	2	5,032	2,516	1,091,000	545,500	216.81
Arkansas	830	5,266,584	6,345	1,527,991,000	1,840,953	290.13
California	2,367	6,586,885	2,783	3,207,096,000	1,354,920	486.89
Colorado	3,440	20,752,817	6,033	9,552,515,000	2,776,894	460.30
Florida	-	-	-	-	-	-
Illinois	437	998,425	2,285	254,478,000	582,330	254.88
Indiana	113	196,183	1,736	69,988,000	619,363	356.75
Kansas	3,249	9,577,647	2,948	1,166,223,000	358,948	121.77
Kentucky	1,269	3,410,961	2,688	498,329,000	392,694	146.10
Louisiana	1,630	14,672,997	9,002	8,776,279,000	5,384,220	598.12
Michigan	482	970,566	2,014	590,743,000	1,225,608	608.66
Mississipp	oi 332	2,906,148	8,753	1,758,375,000	5,296,310	605.05
Montana	862	4,376,858	5,078	1,861,774,000	2,159,831	425.37
Nebraska	165	527,964	3,200	119,364,000	723,418	226.08
Nevada	2	14,582	7,291	2,373,000	1,186,500	162.73
New Mexic	o 1,838	11,049,006	6,011	2,961,913,000	1,611,487	268.07
New York	350	1,106,096	3,160	244,019,000	697,197	220.61
North Dak	ota 519	5,345,000	10,299	2,493,454,000	4,804,343	466.50
Ohio	806	3,112,904	3,862	358,396,000	444,660	115.13
Oklahoma	3,588	24,992,044	6,965	8,628,551,000	2,404,836	345.25
Pennsylva	nia 4,169	14,268,265	3,422	1,740,355,000	417,451	121.97
South Dak	ota 48	206,684	4,306	111,077,000	2,314,104	537.42
Tennessee	e 71	257,144	3,622	33,349,000	469,704	129.69
Texas	14,392	118,849,626	8,258	50,262,148,000	3,492,367	422.91
Utah	961	7,383,174	7,683	3,558,232,000	3,702,635	481.94
Virginia	705	1,977,601	2,805	281,327,000	399,045	142.26
Washingto	on 2	28,000	14,000	27,968,000	13,984,000	998.86
West Virgi	nia 1,824	8,043,597	4,410	864,656,000	474,044	107.50
Wyoming	3,061	15,385,795	5,026	10,697,986,000	3,494,932	695.32
Federal O	ffshore 555	5,543,319	9,988	22,960,440,000	41,370,162	4,142
TOTAL U.S	S. 48,771	290,689,099	5,960	139,300,671,603	2,856,219	479.21
Explorator	ry 5,346	32,908,291	6,156	17,141,687,344	3,206,451	520.89
Developme	•	257,780,808	5,936	122,158,984,260	2,813,103	473.89

Source: IHS.

CRUDE OIL REVENUES

(thous.	\$.) 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	149,768	185,865	288,927	216,362	201,879	228,197	288,714	418,677	475,658	510,000
Alaska	3,666,668	4,828,307	8,439,528	6,448,392	7,021,406	8,509,077	11,027,864	14,890,978	15,425,817	16,819,997
Arizona	912	1,060	1,576	1,287	1,363	1,252	1,917	2,605	3,383	2,892
Arkansas	88,778	113,614	193,015	165,657	157,896	191,995	246,862	322,656	358,122	387,492
California	2,654,749	3,800,397	6,702,383	5,213,260	5,596,237	6,572,500	8,243,870	11,113,988	12,240,536	14,032,040
Colorado	280,892	320,807	533,177	410,026	448,493	648,257	892,277	1,263,025	1,492,282	1,557,808
Florida	61,083	85,663	134,339	NA	NA	NA	NA	NA	NA	NA
Illinois	175,495	209,569	343,477	239,786	287,296	340,354	425,520	522,598	616,283	630,927
Indiana	27,578	33,997	58,555	47,436	45,970	52,929	67,006	88,112	102,666	113,067
Kansas	433,245	496,106	970,478	799,674	772,543	973,514	1,326,556	1,806,486	2,165,442	2,439,357
Kentucky	34,088	46,320	91,719	66,892	60,251	69,059	93,817	125,356	136,492	169,558
Louisiana	1,677,750	2,110,941	3,041,511	2,548,300	2,307,012	2,731,264	3,343,113	4,043,624	4,719,199	5,456,018
Michigan	111,436	130,313	222,345	167,339	170,946	190,370	250,848	297,815	310,113	347,791
Mississippi	227,580	276,804	520,508	412,627	398,312	455,644	635,176	877,318	1,030,079	1,400,185
Missouri	1,068	1,436	2,667	1,854	2,045	2,169	3,269	4,239	4,989	4,862
Montana	185,928	247,058	429,207	368,707	383,620	553,711	952,616	1,730,144	2,055,693	2,251,347
Nebraska	36,501	45,830	82,707	69,164	65,640	78,876	96,319	126,393	133,622	146,529
Nevada	9,005	9,792	14,084	9,798	9,904	12,098	14,807	19,078	24,836	26,194
New Mexico	,	1,124,005	1,935,302	1,612,984	1,616,359	1,952,158	2,521,263	3,205,274	3,693,163	4,055,809
New York*	2,487	3,333	6,006	3,778	4,461	4,163	6,698	10,764	20,260	26,395
North Dako	ta* 405,051	549,129	922,349	746,323	748,481	860,714	1,224,352	1,867,871	2,262,555	2,942,287
Ohio*	79,800	97,968	180,747	136,450	135,750	159,132	221,392	302,212	340,990	371,431
Oklahoma	987,568	1,253,780	2,034,902	1,691,345	1,632,063	1,942,380	2,496,955	3,384,253	3,965,896	4,224,583
Oregon	2	6	0	0	0	0	0	0	0	0
Pennsylvan		27,199	43,200	40,208	55,512	71,780	100,200	215,388	232,137	255,710
South Dako		18,546	32,971	29,982	29,087	35,799	52,109	74,405	72,279	104,529
Tennessee	3,226	5,496	9,093	7,708	6,020	8,260	13,162	14,765	10,956	18,565
Texas	6,197,249	7,767,239	12,681,154	9,932,793	9,792,883	11,820,983	15,239,311	20,395,845	24,353,558	27,107,463
Utah	240,371	287,516	446,095	367,421	326,446	378,212	575,651	898,821	1,069,227	1,219,610
Virginia	58	135	NA	NA	NA	131	NA	NA	NA	NA
West Virgin	•	24,213	37,968	27,401	31,164	37,432	51,391	84,011	110,309	105,883
Wyoming	693,167	1,006,745	1,632,922	1,237,681	1,201,585	1,395,598	1,811,827	2,355,694	2,817,138	3,157,944
TOTAL U.S.	24,804,460	33,403,150	56,932,491	46,246,440	47,206,261	57,144,365	72,926,015	70,497,842	111,158,240	89,844,213

Source: * EIA price and production data used in addition to state data when EIA not available. Total does not include Federal Offshore.

NATURAL GAS REVENUES

(thous.	<i>\$.)</i> 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	867,191	885,546	1,450,233	1,509,306	1,204,585	1,874,005	2,160,750	2,751,780	2,166,685	2,011,828
Alaska**	615,975	634,265	807,831	938,166	986,831	1,180,314	1,613,895	2,314,590	2,574,952	2,440,521
Arizona	859	986	1,288	1,265	783	1,918	1,695	1,596	3,593	3,917
Arkansas	738,418	600,269	897,688	832,352	717,089	876,827	1,062,552	1,383,270	1,737,984	1,867,611
California	621,096	903,207	1,811,350	2,618,320	1,051,799	1,699,569	1,807,542	2,336,396	2,039,402	2,033,399
Colorado	1,323,010	1,575,569	2,763,455	3,138,071	2,258,760	4,591,234	5,622,814	8,418,829	7,361,265	5,678,549
Florida	NA	NA	NA	NA	NA	NA	NA	NA		NA
Illinois	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indiana	1,285	1,872	3,155	3,490	4,071	7,920	21,426	28,560	17,555	20,843
Kansas	1,026,096	960,154	1,687,590	1,757,331	1,187,292	1,813,807	1,961,778	2,455761	2,081,557	2,081,840
Kentucky	195,667	158,914	257,682	390,636	265,660	397,740	495,802	634,718	841,676	701,462
Louisiana	3,134,998	3,478,554	5,354,452	5,993,323	4,357,603	7,616,250	8,065,364	11,301,539	9,432,555	9,572,037
Maryland	164	49	128	133	132	216	213	342	366	NA
Michigan	492,195	490,934	723,597	954,375	592,868	950,318	999,772	1,383,894	NA	NA
Mississippi	153,457	180,964	292,241	422,636	345,719	686,912	369,348	451,962	414,032	492,182
Missouri	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Montana	88,197	102,754	198,618	253,959	205,719	320,881	436,397	709,021	624,033	668,371
Nebraska	2,204	1,389	2,753	2,609	1,806	4,609	4,753	4,922	NA	NA
New Mexico	2,641,932	3,189,626	5,814,862	6,570,696	4,373,974	7,314,308	8,113,719	11,368,097	9,944,998	10,628,430
New York*	42,749	37,040	66,589	138,935	111,552	208,872	321,429	429,300	399,137	486,237
North Dakota	a 113,816	122,640	210,538	193,204	155,741	196,596	315,202	441,479	360,380	365,149
Ohio*	339,495	266,107	426,808	454,486	466,274	564,282	601,665	754,213	668,941	668,641
Oklahoma	2,954,780	3,267,704	5,854,791	6,509,998	4,649,922	7,744,030	9,139,845	11,819,425	10,674,385	10,885,012
Oregon	2,539	3,253	3,266	4,063	3,323	3,275	1,817	1,930	2,745	2,155
Pennsylvani	a 387,041	539,826	346,500	446,209	538,098	NA	NA	NA	NA	NA
South Dakot	a 4,001	1,459	5,881	3,762	3,024	5,493	6,001	7,380	6,163	7,184
Tennessee	3,053	2,804	4,704	7,200	6,991	9,412	14,490	21,010	18,055	26,135
Texas	10,768,603	11,675,863	20,758,669	21,764,819	16,245,797	27,161,677	29,542,446	39,836,828	36,616,945	42,520,234
Utah	479,798	506,845	883,255	999,374	546,731	1,101,718	1,456,558	2,156,757	1,912,277	1,452,939
Virginia*	123,668	179,756	284,034	329,965	453,915	397,612	NA	NA	NA	NA
West Virgini	a 426,600	653,509	855,810	790,583	654,457	814,718	928,892	1,563,234	1,617,050	1,585,922
Wyoming	1,608,828	1,913,323	3,635,016	4,759,938	3,925,684	6,357,383	7,897,327	11,245,715	10,624,776	8,942,992
TOTAL U.S.	29,166,538	32,350,548	55,414,592	61,789,202	45,316,197	73,901,897	106,565,501	138,735,606	124,027,817	127,523,075

Source: EIA wellhead price and marketed production data.

^{*} State data used when EIA not available. ** Alaska natural gas is reinjected.

ABANDONMENTS

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	6	10	60	38	19	34	29	19	78	20
Arizona	0	1	0	0	0	0	0	4	0	0
Arkansas	149	112	142	92	66	108	69	76	73	125
California	1,421	1,116	1,647	1,478	2,521	2,501	1,629	2,496	1,999	2,119
Colorado	268	157	178	193	152	215	212	206	282	104
Florida	0	0	0	0	0	0	0	0	1	2
Illinois	802	590	647	699	715	659	554	557	853	735
Indiana	155	61	80	101	127	102	80	27	159	374
Kansas	1,707	2,198	844	1,877	2,020	2,270	1,473	2,379	1,318	885
Kentucky	287	239	310	262	289	312	263	236	503	240
Louisiana	1,150	956	933	1,169	1,127	1,500	898	951	750	791
Michigan	170	172	166	196	220	177	196	136	87	108
Mississippi	86	107	128	93	144	106	90	59	34	91
Missouri	2	4	12	1	4	12	4	7	11	27
Montana	195	180	202	160	124	169	113	159	227	222
Nebraska	90	70	67	85	108	81	55	19	15	20
New Mexico	354	256	223	338	389	263	752	640	420	575
New York	77	68	94	59	106	115	83	75	19	110
North Dakota		70	78	89	57	40	50	28	71	18
Ohio	746	603	598	624	581	500	572	818	577	598
Oklahoma	1,882	1,164	1,247	975	1,139	1,056	956	1,407	1,090	1,090
Pennsylvania	-	712	420	324	358	328	306	320	100	323
South Dakota		8	0	0	1	2	0	2	0	0
Tennessee	138	127	138	57	53	86	50	25	34	250
Texas	6,595	5,355	5,486	6,305	6,579	6,902	6,718	6,160	6,417	5,030
Utah	64	54	36	42	22	17	57	73	65	125
Virginia	0	0	0	9	9	60	45	44	98	0
West Virginia	336	330	314	420	246	327	335	308	285	276
Wyoming	216	48	172	139	329	241	517	570	635	706
TOTAL U.S.	18,147	14,768	14,222	15,825	17,505	18,183	16,106	17,782	16,201	14,970

Source: IOGCC.

Note: 2007 data for oil and gas wells plugged and abandoned as of January 1, 2008. Estimated data for Colorado, Illinois, Pennsylvania, Tennessee and West Virginia.

SEVERANCE AND PRODUCTION TAXES

(thous. \$) 1998	1999 2000	2001	2002 2003	2004 2005	2006	2007
Alabama 55,078 Alaska 395,500 Arizona 5,952 Arkansas 4,372	37,899 68,341 507,000 759,000 6,398 6,060 4,616 9,476		53,235 92,695 19,368 1,093,356 6,510 8,377 6,608 8,355	101,184 132,300 651,900 863,000 9,899 10,022 9,802 15,078	7,979	139,380 2,208,400 6,761 14,928
California 157,652 Colorado 19,756 Florida 7,318 Indiana 550	194,606 215,696 23,327 24,641 4,157 6,046 502 653		89,306 214,473 48,914 23,613 5,197 5,469 567 590	188,753 268,796 107,145 134,050 6,084 8,278 845 1,119	196,668 9,527	471,185 126,244 9,288 1,350
Kansas 51,686 Kentucky 11,212 Louisiana 336,294 Maryland 1	120,333 56,900 8,452 11,414 240,055 354,314 1 1	20,678	59,895 84,212 14,610 17,800 54,429 480,749 1 1	116,677 148,855 22,170 28,630 677,320 714,729 1 4	42,586 885,402	131,217 38,538 981,229 3
Michigan 30,982 Mississippi 25,346 Montana 35,065 Nebraska 1,334	30,570 40,012 14,518 23,751 28,997 43,770 1,017 2,108	11,817	35,967 54,651 28,201 43,413 50,304 75,454 1,455 1,845	56,186 66,749 62,631 84,409 114,218 180,077 2,191 2,926	6,809 204,129	67,796 8,364 242,776 2,894
Nevada 74 New Mexico 375,800 North Dakota 39,200 Ohio 3,383	50 62 227,200 345,300 35,402 71,275 3,327 3,090		56 248 79,109 571,862 62,300 66,846 2,799 2,900	45 43 737,200 926,884 73,914 157,500 2,691 2,615	1,169,271 166,147	40 987,921 185,970 2,452
Oklahoma360,285Oregon93South Dakota1,018Tennessee213	253,039 410,412 98 146 730 1,051 363 532	745,236 41 119 1,566 380	17,103 600,980 145 89 1,239 1,522 498 592	701,156 875,653 72 79 1,658 2,507 592 813	90 3,256	1,001,328 117 3,153 1,838
Texas 926,562 Utah 13,989 West Virginia 16,119 Wyoming 73,754	659,396 1,153,086 11,109 17,313 19,161 18,048 125,178 567,445	42,106 2 34,549 2 581,532 32	49,054 1,492,743 20,603 28,689 28,382 30,475 27,497 370,381	39,356 57,116 41,544 53,557 504,731 713,456	77,074 84,947 660,461	2,729,862 70,178 80,294 595,031
TOTAL U.S. 2,948,591	2,557,499 4,209,943	5,548,712 3,80	63,352 5,372,380	6,116,938 7,787,500	9,851,179	10,108,535

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. Totals may not add due to rounding. Some taxes may include other commodities - for example Arizona's Transaction Privilege Tax includes taxes paid on coal, sand and gravel transactions in addition to oil and natural gas.

CRUDE OIL WELLHEAD PRICES

(\$/bbl.)	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	12.08	16.71	27.63	23.18	23.39	28.97	38.79	53.26	63.16	71.10
Alaska	8.55	12.60	23.76	18.35	19.54	23.93	33.17	47.21	57.03	63.81
Arizona*	11.69	16.06	26.72	21.82	21.63	26.63	36.86	52.09	61.51	67.26
Arkansas	11.10	15.89	26.98	21.82	21.50	26.57	36.67	50.86	58.67	64.25
California	9.36	13.92	24.72	20.00	21.69	26.29	34.32	48.26	54.78	64.73
Colorado	12.56	17.37	28.85	24.82	25.29	30.71	40.38	55.34	63.80	67.04
Florida	10.23	17.50	29.04	NA						
Illinois	12.78	17.37	28.14	23.76	23.84	29.10	38.74	51.20	59.70	65.66
Indiana	12.49	17.31	27.91	23.46	23.43	28.38	38.18	51.02	59.31	65.47
Kansas	12.19	17.08	28.16	23.56	23.61	28.68	39.18	53.41	60.74	66.85
Kentucky	11.67	16.68	26.47	22.53	22.49	27.21	36.82	49.45	58.33	63.60
Louisiana	12.50	17.59	28.85	24.36	24.68	30.31	40.08	53.57	63.88	71.18
Michigan	12.39	16.63	28.12	22.69	23.68	29.18	39.14	53.67	60.89	66.87
Mississippi	10.33	15.42	26.23	21.13	22.11	27.46	37.03	49.58	59.35	68.65
Missouri*	11.48	15.61	28.37	20.37	21.53	26.45	37.15	49.87	57.34	60.77
Montana	11.28	16.54	27.82	23.16	22.76	28.66	38.53	52.66	56.69	64.64
Nebraska	11.50	17.21	27.97	23.67	23.62	28.63	38.42	52.38	57.77	62.78
Nevada*	11.27	13.87	22.68	17.13	17.91	24.54	31.98	42.68	58.30	64.20
New Mexico	12.36	17.46	28.80	23.72	24.11	29.52	39.25	52.84	61.74	68.94
New York	11.46	16.18	28.60	22.76	24.92	28.91	39.40	54.64	63.51	69.46
North Dakota	11.39	16.70	28.19	23.55	24.15	29.27	39.30	52.38	56.69	65.30
Ohio	12.20	16.41	27.49	22.55	22.61	28.18	38.27	53.47	62.89	68.09
Oklahoma	12.73	17.77	29.08	24.68	24.49	29.72	39.95	54.46	63.11	69.31
Pennsylvania	13.67	18.49	28.80	24.82	24.86	29.60	39.48	54.57	64.02	70.00
South Dakota	12.29	16.86	28.18	23.89	23.96	28.94	38.40	50.65	51.85	62.78
Tennessee*	11.24	15.93	26.28	21.96	21.89	26.56	36.46	45.57	57.06	65.37
Texas	12.28	17.29	28.60	23.41	23.77	29.13	38.79	52.61	61.31	68.30
Utah	12.52	17.69	28.53	24.09	23.87	28.88	39.35	53.98	59.70	62.48
Virginia*	11.64	16.88	NA	NA	NA	26.23	NA	NA	NA	NA
West Virginia	11.95	16.46	27.12	22.35	22.55	28.06	38.38	53.75	63.07	67.27
Wyoming	10.70	16.47	26.89	21.55	21.96	26.63	35.10	45.63	53.25	58.34
TOTAL U.S.	10.87	15.56	26.72	21.84	22.51	27.56	36.77	50.28	59.69	66.52

Source: Energy Information Administration and State Sources*

Notes: Data represent average first purchase price of crude oil at the lease or wellhead.

Wellhead prices for Alaska, California, Louisiana and Texas are dervied from formulas that include proportional production for onshore and offshore.

NATURAL GAS WELLHEAD PRICES

(\$/Mcf)	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	2.21	2.32	3.99	4.23	3.48	5.93	6.66	9.28	7.57	7.44
Alaska	1.32	1.37	1.76	1.99	2.13	2.41	3.42	4.75	5.79	5.63
Arizona*	1.88	2.08	3.50	4.12	2.60	4.33	5.12	6.86	5.70	5.98
Arkansas	3.92	4.10	5.23	4.99	4.43	5.17	5.68	7.26	6.43	6.92
California	1.97	2.36	4.81	6.93	2.92	5.04	5.65	7.45	6.47	6.62
Colorado	1.90	2.18	3.67	3.84	2.41	4.54	5.21	7.43	6.12	4.57
Florida*	1.42	2.50	1.76	NA						
Illinois*	2.74	2.74	2.05	NA						
Indiana	2.09	2.19	3.51	3.28	3.11	5.41	6.30	9.11	6.01	5.78
Kansas	1.70	1.80	3.21	3.66	2.61	4.33	4.94	6.51	5.61	5.69
Kentucky	2.39	2.07	3.16	4.78	3.01	4.54	5.26	6.84	8.83	7.35
Louisiana	2.02	2.22	3.68	3.99	3.20	5.64	5.96	8.72	6.93	7.02
Maryland	2.60	2.73	3.75	4.15	5.98	4.50	6.25	7.43	7.63	NA
Michigan*	1.77	1.77	2.44	3.47	2.16	4.01	3.85	5.30	NA	8.46
Mississippi	1.42	1.63	3.30	3.93	3.06	5.13	5.83	8.54	6.84	6.70
Missouri	1.62	NA								
Montana	1.53	1.68	2.84	3.12	2.39	3.73	4.51	6.57	5.53	5.72
Nebraska	1.30	1.36	2.26	2.16	1.52	3.17	3.22	4.29	NA	NA
New Mexico	1.76	2.11	3.43	3.89	2.68	4.56	4.97	6.91	6.18	6.88
New York	2.56	2.16	3.75	5.00	3.03	5.78	6.98	7.78	7.13	8.85
North Dakota	2.14	2.32	3.94	3.53	2.73	3.53	5.73	8.40	6.52	6.67
Ohio	2.95	2.43	4.06	4.54	4.52	5.90	6.65	9.03	7.75	7.59
Oklahoma	1.77	2.05	3.63	4.03	2.94	4.97	5.52	7.21	6.32	6.24
Oregon	2.38	2.52	2.69	3.66	3.97	4.48	3.89	4.25	4.42	5.27
Pennsylvania*	2.97	3.09	2.31	3.41	3.41	NA	NA	NA	NA	NA
South Dakota	2.47	2.13	3.56	3.42	2.95	4.98	5.49	7.44	6.40	7.22
Tennessee	2.15	2.28	4.09	3.60	3.41	5.22	6.90	9.55	6.78	6.63
Texas	2.06	2.31	3.93	4.12	3.16	5.18	5.83	7.55	6.60	6.98
Utah*	1.73	1.93	3.28	3.52	1.99	4.11	5.24	7.16	5.49	3.86
Virginia*	2.16	2.49	3.97	4.29	3.16	4.65	NA	NA	NA	NA
West Virginia*	2.37	2.99	3.24	4.12	3.44	4.34	4.71	7.07	7.17	6.86
Wyoming	1.78	1.97	3.34	3.49	2.70	4.13	4.96	6.86	5.85	4.65
TOTAL U.S.	1.96	2.19	3.68	4.00	2.95	4.88	5.46	7.33	6.39	6.39

Source: Energy Information Administration and State Sources*

REFINER ACQUISITION COST OF CRUDE OIL

RETAIL GASOLINE PRICES

(\$/bbl.)	Domestic	Imported	Composite	(¢/gal.)	Excluding Taxes	Taxes	Pump Price
1981	34.33	37.05	35.24	1984	90.7	30.5	121.2
1982	31.22	33.55	31.87	1985	91.2	29.0	120.2
1983	28.87	29.30	28.99	1986	62.4	30.3	92.7
1984	28.53	28.88	28.63	1987	66.9	27.9	94.8
1985	26.66	26.99	26.75	1988	67.3	27.3	94.6
1986	14.82	14.00	14.55	1989	75.6	26.5	102.1
1987	17.76	18.13	17.90	1990	88.3	28.1	116.4
1988	14.74	14.56	14.67	1991	79.7	34.3	114.0
1989	17.87	18.08	17.97	1992	78.7	34.0	112.7
1990	22.59	21.76	22.22	1993	75.9	34.9	110.8
1991	19.33	18.70	19.06	1994	73.8	37.4	111.2
1992	18.63	18.20	18.43	1995	76.5	38.2	114.7
1993	16.67	16.14	16.41	1996	84.7	38.4	123.1
1994	15.67	15.51	15.59	1997	83.9	39.5	123.4
1995	17.33	17.14	17.23	1998	67.3	38.6	105.9
1996	20.77	20.64	20.71	1999	78.1	38.4	116.5
1997	19.61	18.53	19.04	2000	110.6	40.4	151.0
1998	13.18	12.04	12.52	2001	103.2	42.9	146.1
1999	17.90	17.26	17.51	2002	94.7	41.1	135.8
2000	29.11	27.70	28.26	2003	115.6	43.5	159.1
2001	24.33	22.00	22.95	2004	143.5	44.5	188.0
2002	24.65	23.71	24.10	2005	182.9	46.6	229.5
2003	29.82	27.71	28.53	2006	212.8	46.1	258.9
2004	38.97	35.90	36.98	2007	234.5	45.6	280.1
2005	52.94	48.86	50.24				
2006	62.62	59.02	60.24	Source	e: Energy Informati	on Administrat	ion Pump
0007	00.05	07.04	07.04	304,0			· - · · · · · · · · · · · · · · · · · ·

Source: Energy Information Administration

69.65

67.04

2007

WORLD CRUDE OIL RESERVES

price quoted for unleaded regular.

(mill. bbls.)	United States	Canada	Latin America	Middle East	Africa	Asia Pacific	Western Europe B	Eastern Europe & FSU	Total World
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	22,957	5,096	129,073	660,295	62,177	44,453	16,572	59,196	999,319
1995	22,457	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	22,017	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
2004	21,891	178,800	115,195	729,341	100,784	36,246	16,102	79,343	1,277,702
2005	21,371	178,792	116,246	743,411	102,580	35,936	14,842	79,370	1,292,550
2006	21,757	179,210	115,150	739,205	114,073	33,366	14,695	99,992	1,317,447
2007	20,972	178,592	121,507	748,286	114,838	34,350	13,157	99,997	1,331,698

67.94

Source: Oil & Gas Journal. Estimated proved reserves as of 1/1 of stated year. Totals may not add due to rounding. Canadian reserves include oil sands after 2001.

WHOLESALE PRICES —TOTAL U.S.

Wholesale Prices—Total U.S.

Year	Motor Gasoline	Kerosene	Fuel Oil		Avera	ige	Crude Oil	
		(Distillate ¢/gal.)	Residual	Of Four P		(\$/bbl.)	
1952 1953 1954 1955 1956	11.38 12.01 11.66 11.62 11.75	9.90 10.23 10.40 10.53 10.99	8.52 8.83 8.94 9.08 9.45	3.84 3.73 3.97 4.53 5.30	8.62 8.96 8.88 9.06 9.43	3.62 3.76 3.73 3.81 3.96	2.53 2.68 2.78 2.77 2.79	
1957 1958 1959	12.34 11.74 11.64	11.54 10.96 11.26	10.05 9.39 9.31	6.15 4.82 4.79	10.10 9.27 9.22	4.24 3.89 3.87	3.09 3.01 2.90	
1960 1961 1962 1963 1964 1965 1966 1967 1968	11.61 11.62 11.52 11.35 11.27 11.52 11.59 11.84 11.55	11.17 11.49 11.42 11.51 10.93 11.28 11.49 11.96 12.03	8.79 9.10 9.11 9.18 8.65 9.04 9.09 9.71 9.84	4.88 4.85 4.78 4.61 4.50 4.81 4.73 4.53 4.30	9.15 9.21 9.13 9.01 8.83 9.12 9.15 9.33 9.14	3.84 3.87 3.84 3.79 3.71 3.83 3.84 3.92 3.84	2.88 2.89 2.90 2.89 2.88 2.86 2.88 2.92 2.94	
1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	11.80 12.33 12.70 12.70 14.72 25.53 30.27 33.82 36.99 39.22 56.84	11.98 12.43 12.90 12.87 14.08 24.02 27.41 31.67 35.81 37.23 56.60	10.06 10.45 10.75 10.61 12.61 22.57 26.09 30.38 34.41 35.66 54.47	4.20 6.14 7.76 7.60 8.45 20.43 22.03 21.66 25.87 23.00 33.63	9.27 10.20 10.94 10.87 12.49 23.48 27.03 29.55 33.21 33.72 49.50	3.89 4.28 4.59 4.57 5.25 9.86 11.35 12.41 13.95 14.16 20.79	3.09 3.18 3.39 3.39 3.89 6.87 7.67 8.19 8.57 9.00 12.64	
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	87.40 101.63 94.56 86.97 81.14 81.11 47.74 53.22 50.31 59.15	80.26 101.03 97.18 85.12 84.75 81.69 49.92 56.75 50.72 60.78	78.21 97.20 91.95 80.05 79.62 76.66 44.91 52.25 46.10 56.02	44.43 61.17 57.80 57.30 59.14 56.41 36.23 45.36 38.72 40.87	72.77 88.75 83.27 76.94 74.49 73.06 43.97 50.89 46.22 53.28	30.56 37.28 34.97 32.31 31.29 30.69 18.47 21.37 19.41 22.38	21.59 31.77 28.52 26.19 25.88 24.09 12.51 15.40 12.58 15.86	
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999	72.13 64.24 60.90 54.85 52.95 55.51 68.29 66.21 52.60 64.50	73.37 64.79 62.78 59.98 57.67 58.15 74.02 62.26 45.00 53.30	67.82 59.81 58.12 55.54 53.22 53.74 69.64 66.81 43.90 53.60	50.99 40.94 41.67 40.22 42.50 47.41 53.78 54.69 28.00 35.40	65.20 56.61 54.81 50.82 50.09 51.63 64.43 62.19 42.38 51.70	27.38 23.78 23.02 21.34 21.04 21.68 27.06 26.12 17.80 21.71	20.03 16.54 15.99 14.25 13.19 14.62 18.46 17.23 10.87	
2000 2001 2002 2003 2004 2005 2006 2007	96.30 88.60 82.80 100.20 128.80 167.00 196.90 218.20	88.00 76.30 71.60 87.10 120.80 172.30 196.10 217.10	89.60 77.90 71.80 88.20 117.80 172.00 199.10 219.00	56.60 47.60 53.00 66.10 68.10 97.10 113.60 135.00	82.63 72.60 69.80 85.40 108.88 152.10 176.43	34.70 30.49 29.32 35.87 45.73 63.88 74.10 82.88	26.72 21.84 22.51 27.56 36.77 50.28 59.69 66.52	

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.

COMPILED BY IPAA AUGUST 2009

PETROLEUM CONSUMPTION

(mill. bbls.)	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	97.2	101.6	105.4	103.9	108.1	107.1	117.1	115.3	115.9	115.1
Alaska	45.7	48.6	48.5	50.7	48.7	50.0	58.9	58.7	60.3	57.0
Arizona	88.0	92.9	94.6	95.7	97.8	99.3	108.6	108.7	110.7	109.7
Arkansas	65.2	71.6	73.1	70.4	70.1	69.6	71.7	70.7	70.8	71.2
California	609.9	628.5	654.1	661.7	685.8	701.2	693.1	705.3	714.1	718.3
Colorado	75.0	77.8	83.5	86.9	83.3	86.7	93.7	92.6	96.1	97.8
Connecticut	78.8	83.2	81.2	76.6	70.8	79.8	86.0	82.7	75.0	73.1
Delaware	25.3	25.8	24.9	26.7	26.1	26.6	25.5	26.9	25.1	24.7
Dist.of Columbia	6.2	6.1	6.3	6.1	6.1	5.4	5.6	5.3	4.3	4.2
Florida	339.9	341.4	354.2	352.7	345.4	351.4	382.7	390.1	373.3	361.3
Georgia	183.3	192.6	193.7	193.0	192.5	196.1	206.3	213.3	207.8	202.7
Hawaii	40.5	39.7	40.6	41.5	44.8	46.7	49.1	51.2	51.6	52.9
ldaho	27.6	30.0	30.7	28.6	29.1	25.6	28.8	29.5	30.6	30.6
Illinois	228.6	250.6	248.6	243.0	237.7	243.2	255.7	276.1	265.5	264.3
Indiana	156.9	162.5	164.9	152.1	161.7	166.8	164.6	163.2	163.5	160.7
lowa	78.8	82.8	82.4	78.8	82.4	76.4	86.5	88.3	90.0	86.3
Kansas	75.8	86.6	79.3	73.7	71.1	83.8	81.8	64.8	66.7	82.6
Kentucky	127.4	132.8	130.8	122.8	133.1	125.7	139.2	138.2	138.7	137.3
Louisiana	248.1	278.9	327.7	325.8	331.5	300.9	310.5	297.9	321.4	302.2
Maine	46.1	48.1	47.1	40.7	41.3	47.3	46.6	47.6	42.9	43.0
Maryland	100.8	105.3	102.1	103.9	100.7	104.7	108.8	112.5	103.4	103.0
Massachusetts	138.0	133.7	138.2	135.4	130.8	133.1	135.5	136.8	124.4	125.8
Michigan	197.4	208.0	201.5	194.0	198.1	193.4	197.4	198.4	187.0	187.5
Minnesota	116.5	122.1	125.6	125.0	126.3	129.2	133.0	134.1	134.1	131.0
Mississippi	84.2	87.5	85.0	89.1	80.4	89.1	88.5	84.2	86.9	85.5
Missouri	139.6	145.5	128.8	136.9	138.5	140.5	142.8	142.2	141.1	141.9
Montana	28.3	30.6	29.7	28.5	29.3	28.6	32.2	33.5	35.5	38.2
Nebraska	45.4	45.9	42.0	41.0	42.9	43.3	44.5	43.2	43.3	43.7
Nevada	40.7	41.9	43.4	45.9	43.8	44.4	48.3	51.2	54.0	53.6
New Hampshire	33.5	34.5	34.0	31.1	32.8	36.6	37.7	35.4	32.1	32.0
New Jersey	212.5	221.5	226.6	232.2	229.5	222.9	229.8	239.9	234.1	247.0
New Mexico	45.3	47.6	45.8	45.3	45.8	46.1	47.8	47.7	50.2	53.8
New York	290.1	294.1	308.7	297.6	287.6	319.0	337.1	331.0	292.6	295.4
North Carolina	174.0	172.5	180.8	177.0	172.8	176.4	184.0	185.8	181.0	182.1
North Dakota	20.8	22.9	22.5	26.4	23.3	22.6	25.0	25.7	25.4	26.4
Ohio	231.9 86.7	245.4	242.3 95.4	240.2 106.4	244.4 101.6	251.7 99.6	250.7	247.5 105.6	248.8	248.5
Oklahoma		93.5					98.2		111.7	104.6
Oregon	69.8	71.4 248.2	69.2	65.0 264.4	67.6 260.2	65.6	67.8	69.3 279.2	70.5	70.0 266.5
Pennsylvania	248.4	248.2 17.9	259.7			267.3	276.0		269.4	∠00.5 16.9
Rhode Island South Carolina	17.6 84.9	85.6	17.8 88.5	18.3 95.1	18.0 94.9	18.6 97.4	18.1 112.3	17.9 108.1	17.2 109.2	106.2
South Dakota Tennessee	20.9 125.3	21.4 129.2	22.1 130.8	20.9 136.8	22.7 142.7	21.3 144.6	21.6 148.8	22.4 153.1	22.1 152.6	22.7 151.4
	1,162.6			1,113.7		1,160.7				
Texas Utah	45.4	1,152.1 46.8	1,125.0 49.2	48.2	1,151.0 47.6	49.9	1,200.1 50.6	1,162.5 53.0	1,199.2 57.0	1,208.0 55.7
Vermont	15.7	15.7	16.6	17.0	16.2	16.3	17.9	17.3	17.0	16.7
Virginia	153.7	156.7	164.6	168.9	164.2	177.1	189.7	189.9	185.2	186.8
Washington West Virginia	149.1 40.8	153.8 38.8	152.6 39.4	142.6 48.3	136.2 50.2	133.6 47.7	136.9 53.0	141.1 51.9	145.9 53.0	152.2 52.4
_										
Wisconsin	118.0	126.1	124.9	116.3	117.6	112.2	118.3	117.4	115.7	116.2
Wyoming	23.0	26.3	26.2	28.9	27.8	28.9	28.4	28.9	31.0	31.6
Total U.S.	6,904.8	7,124.6	7,210.6	7,171.8	7,212.9	7,312.2	7,587.6	7,592.8	7,550.9	7,548.3

Source: Energy Information Administration.

NATURAL GAS CONSUMPTION

(MMcf.)	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	329,134	337,270	353,614	332,693	379,343	350,345	382,367	353,156	391,093	418,545
Alaska	434,871	422,816	427,288	408,960	419,131	414,234	406,319	432,972	373,850	369,967
Arizona	158,355	165,076	205,235	240,812	250,734	272,921	349,622	321,584	358,069	393,039
Arkansas	266,485	252,853	251,329	227,943	242,325	246,916	215,124	213,609	233,868	226,437
California	2,309,883	2,339,521	2,508,797	2,464,565	2,273,193	2,269,405	2,406,889	2,248,256	2,315,721	2,394,930
Colorado	330,259	333,085	367,920	463,738	459,397	436,253	440,378	470,321	450,832	504,786
Connecticut	131,497	152,237	159,712	146,278	177,587	154,075	162,642	168,067	172,682	180,178
Delaware	40,809	56,013	48,387	50,113	52,216	46,177	48,057	46,904	43,190	47,948
Dist.of Colum Florida Georgia Hawaii	503,844 368,579 2,654	32,281 559,366 337,576 3,115	33,468 541,847 413,845 2,841	29,802 543,143 351,109 2,818	32,898 689,337 383,546 2,734	32,814 689,986 379,761 2,732	32,227 734,178 394,986 2,774	32,085 778,209 412,560 2,795	29,049 891,611 420,469 2,783	32,974 917,245 441,099 2,850
Idaho	69,277	70,672	72,697	80,279	71,481	69,868	75,335	74,540	75,709	81,943
Illinois	957,254	1,004,281	1,030,604	951,616	1,049,878	998,486	953,207	969,642	893,997	965,756
Indiana	521,748	556,932	570,558	501,711	539,034	527,037	526,701	531,111	496,303	535,805
Iowa	232,057	230,691	232,565	224,336	226,457	230,161	226,819	241,340	238,454	259,286
Kansas	326,674	302,932	312,369	272,500	304,992	281,346	256,779	255,123	264,253	286,427
Kentucky	205,129	218,399	225,168	208,974	227,920	223,226	225,470	234,080	211,049	229,801
Louisiana	1,569,190	1,495,478	1,536,725	1,219,013	1,341,444	1,233,505	1,281,428	1,254,370	1,217,871	1,290,326
Maine	5,716	6,572	44,779	95,733	101,536	70,832	72,565	57,835	49,605	44,552
Maryland	188,552	196,350	212,133	178,376	196,276	197,024	194,725	202,509	182,294	201,078
Massachusett	s 358,846	344,790	343,314	349,103	393,194	403,991	372,532	378,068	370,664	408,758
Michigan	876,444	951,143	963,136	906,001	966,354	924,819	916,629	913,827	803,336	828,779
Minnesota	330,513	344,591	362,025	340,911	371,583	371,261	359,898	367,825	352,570	388,705
Mississippi	241,342	306,733	300,652	332,589	343,890	265,842	282,051	301,663	307,305	364,005
Missouri	258,652	265,798	284,763	283,793	275,629	262,529	263,945	268,040	252,697	272,405
Montana	59,840	62,129	67,955	65,051	69,532	68,473	66,829	68,355	73,879	73,822
Nebraska	130,730	121,487	126,962	121,984	120,333	118,922	115,011	119,070	129,885	143,827
Nevada	148,539	154,689	189,170	176,835	176,596	185,846	214,984	227,149	249,608	254,464
New Hampshi	re 19,127	20,313	24,950	23,398	24,901	54,147	61,172	70,484	62,549	62,133
New Jersey	679,619	715,630	605,275	564,923	598,602	612,890	620,806	602,388	547,206	619,053
New Mexico	245,823	236,264	266,469	266,283	235,098	221,021	223,575	220,717	223,636	233,951
New York	1,232,473	1,274,162	1,244,746	1,171,898	1,199,632	1,101,618	1,098,056	1,080,215	1,097,160	1,190,341
North Carolina	214,092	217,159	233,714	207,108	235,376	218,642	224,796	229,715	223,032	237,364
North Dakota	49,541	56,418	56,528	60,819	66,726	60,907	59,986	53,050	53,336	60,211
Ohio	811,384	841,966	890,962	804,243	830,955	848,388	825,753	825,961	742,359	806,466
Oklahoma	575,855	538,329	538,563	491,458	508,298	540,103	538,576	582,536	624,400	658,350
Oregon	229,403	235,009	224,888	229,665	202,164	212,556	234,997	232,562	222,608	251,949
Pennsylvania	644,017	688,740	702,847	634,794	675,583	689,992	696,175	691,591	659,754	752,321
Rhode Island	130,751	118,001	88,419	95,607	87,805	78,456	72,609	80,764	77,204	88,003
South Carolin	a 159,458	162,926	160,436	141,785	184,803	146,641	163,787	172,032	174,806	173,848
South Dakota	33,042	35,794	37,939	37,077	41,577	43,881	41,679	42,555	40,739	53,938
Tennessee	279,070	278,841	270,658	255,990	255,515	257,315	231,133	230,338	221,626	221,089
Texas	4,205,459	4,009,689	4,421,777	4,252,152	4,303,831	4,050,632	3,908,243	3,503,636	3,432,236	3,515,902
Utah	169,776	159,889	164,557	159,299	163,379	154,125	155,891	160,275	187,399	219,687
Vermont	7,735	8,033	10,426	7,919	8,367	8,400	8,685	8,372	8,056	8,867
Virginia	260,332	276,793	268,770	237,853	258,202	262,970	277,434	299,746	274,175	319,935
Washington	290,229	287,302	286,653	312,114	233,716	249,599	262,485	264,754	263,395	272,637
West Virginia	142,860	139,961	147,854	141,090	146,455	126,986	122,267	117,136	113,084	114,280
Wisconsin	368,022	380,560	393,601	359,784	385,310	394,711	383,316	410,250	372,462	398,369
Wyoming	109,188	96,726	101,314	98,569	112,872	115,358	107,060	108,314	108,481	113,266
Total U.S.	22,245,956	22,405,151	23.333.121	22,238,624	23,007,017	22,276,502	22.388.975	22,010,596	21,684,641	23,047,229
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Source: Energy Information Administration. Total Consumption - includes Lease & Plant Fuel and Pipeline and Distribution Use.

INDUSTRY EMPLOYMENT-2007

State	Mining	Refi	ning	Tr	ansportatio	on V	Vholesale	Retail	Total
	Oil & Gas Extraction	Petroleum Refining	Oils & Greases	Pipelines, Except Gas	Pipeline Construction	Gas Distribution	Petroleum Products	Gasoline Stations	Industry
Alabama Alaska	2,071 11,737	314 ND	649 417	211 ND	1,154 368	3,124 ND	3,141 1,418	18,992 1,790	29,656 15,730
Arizona	310	ND	324	ND	947	250	2,073	16,869	20,773
Arkansas	4,772	496	485	191	614	1,568	2,299	12,395	22,820
California Colorado	19,174 19,644	12,932 522	903 64	2,768 39	8,337 2,819	1,235 1,869	13,257 2,314	53,475 12,826	112,081 40,097
Connecticut Delaware	25 35	ND ND	335 ND	158 ND	293 76	1,302 ND	5,295 717	6,283 2,540	13,691 3,368
Dist. of Colu		ND	68	ND	ND	ND	ND	460	528
Florida	1,455 354	97 105	326 189	159 144	1,036 1,495	1,852 1,882	6,704 4,275	40,191 29,002	51,820 37,446
Georgia Hawaii	16	ND	ND	ND	86	ND	4,275	2,606	3,204
Idaho	121	ND	ND	ND	192	ND	891	5,503	6,707
Illinois Indiana	2,649 512	2,883 ND	1,616 3,444	494 229	1,154 1,150	5,400 3,204	5,616 3,590	26,810 23,398	46,622 35,527
Iowa	ND	ND	307	103	360	820	1,732	17,923	21,245
Kansas Kentucky	8,424 2,419	1,643 719	288 413	423 953	1,403 1,014	2,154 792	2,032 3,134	10,187 18,782	26,554 28,226
Louisiana	47,260	9,395	1,157	651	16,432	3,362	4,043	18,340	100,640
Maine	16	ND	372	ND	58	75	4,133	7,607	12,261
Maryland Massachuse	747 etts 109	ND ND	868 1,035	ND ND	793 286	678 2,844	3,497 7,064	10,068 11,723	16,651 23,061
Michigan	2,603	398	736	143	1,306	4,046	5,074	24,589	38,895
Minnesota	851	ND	2,370	148	1,165	1,845	2,910	23,023	32,312
Mississippi Missouri	5,480 94	1,815 98	138 393	295 145	1,294 405	1,206 3,305	2,323 4,174	15,891 25,377	28,442 33,991
Montana	2,752 249	ND ND	975 122	129 38	461	625 1,542	990	5,271 9,006	11,203
Nebraska Nevada	182	ND ND	217	ND	860 681	23	1,243 787	9,000 8,563	13,060 10,453
New Hampsh	hire 45	ND	207	ND	ND	199	2,802	5,120	8,373
New Jersey New Mexico	364 15,185	2,544 ND	552 736	148 119	1,214 2,070	3,704 1,609	5,953 1,816	15,493 7,922	29,972 29,457
					•	,			•
New York North Caroli	1,296 na 658	31 133	420 188	111 135	1,520 1,154	4,099 2,116	13,574 6,689	28,685 28,642	49,736 39,715
North Dakota Ohio	a 3,522 5,162	ND 1,561	ND 730	95 623	262 1,394	156 3,793	1,612 5,759	4,024 34,576	9,671 53,598
Oklahoma	44,694	1,418	475	1,790	1,968	3,793	11,316	13,570	78,517
Oregon	44,094	ND	430	1,790 ND	336	3,260 ND	1,768	10,872	13,452
Pennsylvani Rhode Island		2,424 ND	2,578 ND	373 ND	2,043 63	4,978 ND	11,337 1,530	36,134 1,871	66,018 3,464
South Caroli		15	113	ND	184	902	2,321	17,916	21,711
South Dakot	a 70	ND	13	61	55	220	1,269	5,811	7,499
Tennessee Texas	637 201,991	463 21,238	57 779	30 4,105	696 26,595	2,221 16,347	3,524 55,244	23,841 68,019	31,469 394,418
Utah	5,793	883	39	44	1,042	1,138	1,254	10,067	20,260
Vermont Virginia	ND 1,579	ND ND	ND 914	ND 383	ND 1,616	ND 1,564	1,616 4,889	3,924 33,892	5,540 44,837
Washington	180	1,893	86	152	1,181	1,262	3,350	14,016	22,120
West Virginia Wisconsin	a 5,193 93	340 ND	547 118	1,420 216	965 1,437	917 812	1,015 3,409	9,254 23,779	19,651 29,864
Wyoming	17,837	928	135	195	5,046	766	774	4,143	30,028
Total U.S.	446,512	72,337	15,209	13,784	97,114	142,372	248,734	861,885	1,897,947

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. Oilfield Machinery included in Wholesale Petroleum Products. Pipeline Construction and Oilfield Machinery separated out on state pages. State page Refining includes Oil and Greases.

REFERENCE INFORMATION

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Severance and production taxes.. IPAA survey

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Administration (marketed gas

production)

Wellhead prices and value Energy Information

Administration, IPAA, State

Data

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Worldwide rank from BP and World Oil for wells drilled.

Abbreviations

bbl. = barrel

b/d = barrels per day Mcf = thousand cubic feet

MMcf = million cubic feet Bcf = billion cubic feet

Tcf = trillion cubic feet BTU = British Thermal Unit

NGL = Natural Gas Liquid LPG = Liquefied Petroleum Gases

NA = Data Not Available

ND = Not Disclosable

Energy Conversions

One barrel of crude oil:

= 42 gallons

= 5,800,000 BTU of energy

= 5,614 cubic feet of natural gas

= 0.22 ton of bituminous coal

One cubic foot of natural gas:

= 7.48 gallons

= 1,030 BTU of energy

= 0.000178 barrel of crude oil

= 0.00004 ton of bituminous coal

One short ton of bituminous coal:

= 2,000 pounds

= 26,200,000 BTU of energy

= 4.52 barrels of crude oil

= 25,314 cubic feet of natural gas

One metric ton of crude oil:

= 2,204 pounds

= 7.46 barrels of domestic crude oil

= 6.99 barrels of foreign crude oil

One cubic meter of natural gas:

= 35.314 cubic feet

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.

Heavy Oil - A type of high-viscosity crude that may, or may not, naturally flow into a well bore. The limit for heavy oils has been set between 0.1 API gravity and 20.9 API gravity.

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.

Marginal Well - A producing well which pumps or "strips" less than 15 barrels of crude oil or 90 Mcf of natural gas per day.

Marginal Well Reserves - The estimated amount of additional crude oil or natural gas which can be recovered by primary means or secondary recovery methods.

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.

Natural Gas Marketed Production - Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring, nonhydrocarbon gases removed in treating and processing operations, and quantities vented and flared.

Non-associated Gas - Natural gas not in contact with significant 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.

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.

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