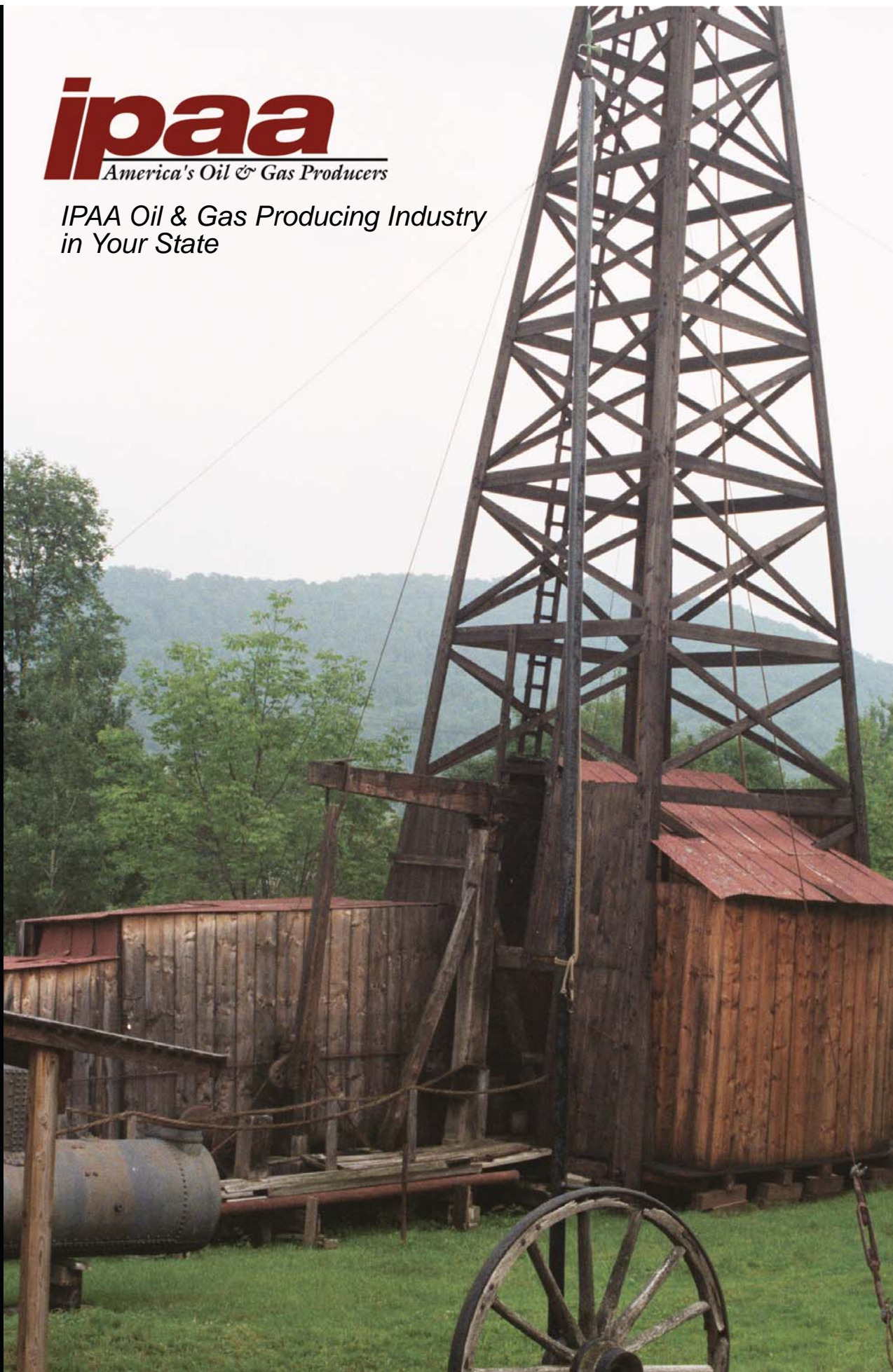


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*Image: A standard cable-tool rig at Penn-Brad Historical Oil Well Park, near Bradford, PA.*

# ***THE OIL & NATURAL GAS PRODUCING INDUSTRY IN YOUR STATE***

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# THE YEAR IN REVIEW: INTRODUCTION TO 2006 O&G IN YOUR STATE

## 2006: U.S Energy Future at a Crossroads

Pete Stark, Ph. D., IHS

### Introduction:

In the wake of Hurricanes Katrina and Rita, anxieties about the security of U.S. energy supplies soared while the petroleum industry focused on restoring oil and gas production and realigning supply chains. During June 2006, the Minerals Management Service (MMS) reported that hurricane damages resulted in cumulative loss of 162 MMb of oil production and 784 Bcf of cumulative gas production from the Federal Offshore Gulf of Mexico. This amounted to 30% of annual oil production and 21% of annual natural gas production from this province. Vulnerability of offshore Gulf of Mexico production and near-shore facilities to hurricane damage prompted the U.S. Energy Information Agency (EIA) to add a hurricane risk factor to its oil and gas production forecasts. Energy policy makers looked for options to improve the security of oil and gas supplies and calls for “energy independence” and freedom from “foreign” oil imports made headlines during the first quarter of 2006. The petroleum industry noted that a simple option to reduce the vulnerability of U.S. oil and gas supplies would be to open access to prospective offshore and Arctic areas that have been off limits to explorers.

Fears abounded at the start of the year that tight oil and gas supplies would substantially increase prices during the year. On January 3, 2006 U.S. crude oil was \$63.14 per barrel, almost 50% higher than the price on January 3, 2005. Concerns about political risks in the Middle East, supply disruptions in other important oil producing countries like Nigeria and OPEC’s dwindling surplus producing capacity were cited as drivers for high oil prices even though January 2006 U.S. crude oil stocks stood at 321 MMb, at the top of the 5-year maximum range for this month. Crude oil stocks continued to build through most of the year reaching a high of 340 MMb during November. Monthly oil prices eventually peaked at \$74.40 per barrel during July 2006 and the year closed at \$57.75 per barrel – off \$5.39 from January 3, 2006. The 2006 annual average oil price, nevertheless, was \$65.58, almost 16% higher than in 2005.

The behavior of natural gas prices was more surprising. The January 3, 2006 U.S. natural gas spot price was \$10.63 per Mcf, some 84% higher than the price on January 3, 2005 and the EIA forecast that Henry Hub gas would average about \$9.50 per Mcf for the year. The weather and a demand slump in response to four months of double digit gas prices, though, helped to paint a different picture. Mild mid-winter weather curtailed gas demand for heating and drove seasonal gas storage volumes from a scant 6% above average level at year-end 2005 to almost 48% above average by mid-February 2006. Correspondingly, by March 1 the Henry Hub spot gas price dropped to \$6.73 per Mcf – a 37% decline from the first of the year. The gas storage surplus prevailed for most of the year and natural gas spot price averaged \$6.91 during 2006, off \$2.06 or 23% from 2005.

The abrupt and unexpected turnaround in the U.S. gas market was a relief for consumers but created crossroads for producers, planners and policy makers alike. During 1997, U.S. gas production essentially reached a plateau. From 1997 to 2005, U.S. gas production ranged from 56 – 60 Bcfd before a series of hurricanes struck the Gulf Coast. To sustain this decade-long plateau, U.S. gas well completions more than doubled from about 12,500 wells during 1997 to 30,349 gas wells during 2006. Increased drilling was required to offset the decline in high productivity conventional offshore and onshore gas production with lower productivity gas wells from unconventional reservoirs. From 1997 through 2005 this looked to be a losing game. Combined offshore and onshore conventional gas production lost 4,056 Bcf (including the impact of the 2005 hurricanes) while unconventional gas production from coalbed methane, tight sands and shales increased by 3,471 Bcf. Growth in gas production from the Barnett shale in the Ft. Worth Basin plus coalbed methane and tight sands in Rocky Mountain basins did not offset all of the decline in conventional gas but it saved the day for U.S. gas consumers.

U.S. gas well productivity, however, was decreasing as average peak well production dropped from 1,324 Mcfd in 1997 to 678 Mcfd per well in 2006. As a result, industry had to drill more gas wells each year just to replace production. Shortages of skilled manpower arose and costs increased 65% during 2005 and 2006 as industry pressed to drill more wells. Moreover, community interests and environmental advocates pressed to curtail the expansion of unconventional gas drilling. Despite these challenges, U.S. gas production reached 17,638 Bcf for the year – the largest volume since 2001. Nevertheless, a paradox emerged as planners and policy makers looked for alternate sources of gas supplies and tapped LNG imports as the solution to meet future U.S. natural gas demand. Permits for LNG regassification facilities were put on a fast track and projects were launched with the objective to accommodate as much as 9 Bcfd in LNG imports during 2009 and as much as 20 Bcfd by 2020.

*Insights on key E&P trends that are embedded in the 2006 data in this publication are summarized below:*

### Natural Gas Play Highlights:

Even though gas prices slumped during the first quarter, independent operators continued to expand their assessments of unconventional gas plays throughout 2006. Significant industry developments involved the expanded quest to test the potential of shale source rocks throughout the U.S. Importantly, breakthroughs in staged hydraulic fracs and horizontal well completions that were pioneered in the Barnett shale helped to establish several important new shale gas plays. Southwestern Energy drove the successful expansion of the Fayetteville shale in the Arkoma Basin of Arkansas and achieved initial production rates in excess of 2 MMcfd from its horizontal wells.

# THE YEAR IN REVIEW: INTRODUCTION TO 2006 O&G IN YOUR STATE

Newfield Exploration Company expanded its Woodford shale play in southeast Oklahoma and found that reducing frac intervals to 500 feet or less generated the same ultimate gas recoveries as achieved from 1,000 ft. frac stages in earlier wells. Other independent operators expanded the Woodford play into the Ardmore Basin of southern Oklahoma. Also in the mid-continent region, operators tested the Caney shale in Oklahoma and the Bend shale in the Palo Duro Basin. In the Permian Basin, thick Woodford and Barnett shales attracted substantial industry interest but economic success was not demonstrated before the end of the year. Independents also tested the Mississippian Floyd shale and Cambrian Conasauga shale in the Black Warrior Basin, Devonian shales in the Appalachian Basin and Delta Petroleum Corp. announced promising tests of Pennsylvanian Paradox shales in the Paradox Basin of Utah.

Operators also leveraged improved well completion technologies to increase the harvest of in-place gas by downspacing in established tight sand plays. Noteworthy were the Bossier and Cotton Valley plays in East Texas, Cretaceous Mesaverde sand plays in the Piceance, Uinta and Green River Basins. Also in the Green River Basin, operators moved to 20 and 10 acre spacing in the prolific Lance formation of the Pinedale Anticline with estimated 20 Tcf recoverable gas and at the Jonah field with estimated 7 to 10 Tcf recoverable gas. Increased well densities, though, prompted objections from environmental groups and community interests. To address the issues, stakeholders were organized to stimulate collaborative communications and operators responded by reducing the environmental footprint by drilling from pads, installing water treatment and pipe systems, rapid restoration of disturbed surface areas, adjusting operations to wildlife migrations and so forth. Such actions reduced the number of legal actions and allowed operators to spend more time on field operations.

## Gas Drilling and Production:

During 2006, U.S. natural gas well completions increased by 13% to 30,642 wells. State level drilling statistics tend to be too coarse to reflect the emergence of new plays but some are indicative as in the following table showing the number of gas well completions for 2005 and 2006 with the indicated % change:

State	2005	2006	% Change	Key Play
AR	277	395	43%	Fayetteville shale
KS	851	1,215	43%	Cherokee CBM
PA	2,614	3,247	24%	Devonian shale
UT	445	649	46%	Cretaceous tight sands

The increasing value of horizontal wells to enable commercial production from certain unconventional coalbed methane and shale reservoirs is reflected in the dramatic 71% increase in horizontal completions from 2004 through 2006. The Fayetteville play drove Arkansas horizontal drilling from four wells during

2004 to 107 during 2006. Oklahoma horizontal wells increased by 381 wells during 2004 to 699 wells during 2006 with much of the increase in Woodford shale, Hartshorne coalbed methane and Granite Wash gas plays. The Barnett shale play drove most of the increase in Texas horizontal wells which increased from 1,250 wells during 2004 to 2,200 wells during 2006.

Coalbed methane plays added 557 Bcf of production – 16% of the production growth from unconventional reservoirs – from 1997 through 2006 but the rate of production growth and new drilling slowed during 2006. Coalbed methane drilling only grew by 44 wells to 6,710 total wells during 2006. Drilling increases in the Cherokee coals of southeastern Kansas and Pennsylvanian coals in Virginia were offset by decreased drilling in Powder River Basin coalbed methane plays. As a result, U.S. coalbed methane production added only 62 Bcf to reach 1,662 Bcf during 2006.

Thanks in large part to the growth of onshore unconventional plays, U.S. natural gas production recovered from the hurricane impacts and added 387.2 Bcf to reach 17,638 Bcf for the year – the most since 2001. Gas production in Texas (+327 Bcf), Wyoming (+109 bcf), Colorado (+97.3 Bcf), Oklahoma (+71 Bcf) and Utah (+40 Bcf) – mostly from unconventional gas plays – more than offset the decrease of 219 Bcf from Federal Offshore production.

## Oil Play Highlights:

Two significant oil plays – Chevron's Jack 2 test in the deepwater offshore Gulf of Mexico and the evolving Devonian Bakken shale oil play in the Williston Basin – dominated U.S. oil E&P news during 2006. The Jack 2 well, a 28,500 ft. well in about 7,000 ft. of water in Walker Ridge Block 758, yielded the first successful production test of the pre-salt Lower Tertiary Wilcox reservoir. This was good news to operators of eleven other indicated ultra-deepwater discoveries in this play. The test flowed 6,000 bopd from about 40% of the measured reservoir. Chevron and partners indicated this test could be the key to unlock 3 to 13 billion barrels of recoverable oil from the Wilcox ultra-deepwater trend.

Expansion of the Bakken shale play into Mountrail County, ND established two sweet spots at the Parshall and Sanish fields and identified a new north – south fairway east of the Nesson Anticline that could boost the play into the giant category. Horizontal wells and staged hydraulic frac technologies have unlocked the potential of the Bakken shale. As the potential of the new Bakken trend was realized the number of horizontal wells in North Dakota jumped from 150 wells during 2004 to 375 wells during 2006. Correspondingly, oil production in North Dakota grew from 30,142 Mb during 2004 to 36,763 Mb during 2006. Independents EOG Resources Inc. and Whiting Oil and Gas Corp. led the development in this important new Bakken oil play.

# ***THE YEAR IN REVIEW: INTRODUCTION TO 2006 O&G IN YOUR STATE***

## **Oil Drilling and Production:**

Driven by higher oil prices, U.S. operators increased oil well completions during 2006 by 21% to 13,278 wells. Increased activity in traditional oil producing trends in Texas, Oklahoma and Kansas accounted for most of the gains while the expanding Bakken play in North Dakota added 140 of the total 2,349 well increase from 2005.

At the close of 2006 the U.S. recorded 403,887 producing oil wells which produced 1,661.9 MMbo during the year. Marginal oil wells continued to play a valuable role. The 355,794 marginal oil wells generated 360.7 MMbo or 22% of U.S. oil production during the year. Overall 2006 crude oil production dropped by 38.9 MMb to 1,661.9 MMb. Alaska reported the largest decline of 66.5 MMb from 2005 to 269.2 MMb during 2006. Even though U.S. crude oil production decreased by 107 Mb/d (2%) crude oil imports essentially remained flat at 10,118 Mb/d.

## **Concluding Comments:**

The U.S. exploration and production business demonstrated great resiliency during 2006. Even though oil and gas prices slumped and substantial resources were invested to rebuild offshore oil and gas production capacity, the industry managed to boost gas production by more than 2% to 17.638 Bcf, the largest volume since 2001. Independent operators led the onshore industry and demonstrated the capability to boost commercial gas production from unconventional reservoirs including gas from shales. They also demonstrated that they could produce significant amounts of oil from the Bakken shale. These developments made a positive statement about the industry's capabilities to make a substantial contribution to U.S. energy security objectives.

## ***NEW LOOK FOR OUR PUBLICATION***

The IPAA Statistics Department would like to recognize our continue collaboration with IHS for this publication. In an effort to enhance the data quality and broaden our sources, IPAA welcomes the wide-ranging and professional input provided by IHS.

IPAA continues its efforts to enhance the scope and quality of state and national data that will make this publication more valuable for those in industry, government, academia, finance, and other stakeholder groups. IHS has helped expand data in new areas such as unconventional oil and natural gas production, permit and operator data, horizontal drilling figures and marginal production by state. We will continue to expand our industry perspective and endeavor to provide readers with more detailed analysis on industry trends by nation and play-type in addition to more comprehensive state data.

In the 2007-2008 issue we have added several resources at the beginning of the publication that provide resource links for state education programs, Young Professional chapters and oil and gas museums. This section follows IPAA's broad ef-

orts to expand its Education Center in Houston, TX and work with more energy education groups around the country. In the future, more issues of the publication will be printed for distribution to educators in schools around the country so teachers and students will better understand the important role played by the E&P industry in providing jobs and energy to our country.

We appreciate the assistance of IHS in improving both the scope and quality of this upstream publication. Please let us know if you have ideas pertaining to other ways we can improve. You can send your comments to Fred Lawrence at IPAA ([flawrence@ipaa.org](mailto: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 is used on state pages includes peak production, average production, average output per well, coalbed methane, heavy oil and marginal wells.
- EIA production data is used for determining wellhead value of production, cumulative crude oil wellhead value, state production rankings, and natural gas marketed production. All price data from EIA or states. State reserve data is from EIA.
- All Federal Offshore statistics include only those wells in Federal waters. All state well statistics include those offshore wells for each state.
- 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.
- 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 ie 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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(717) 772-2199  
(717) 772-2291 Fax  
<http://www.dep.state.pa.us/dep/deputate/minres/oilgas/oilgas.htm>

## South Dakota Dept. of Environment & Natural Resources

523 E. Capitol - Joe Foss Bldg.  
Pierre, SD 57501  
(605) 773-3151  
(605) 773-6035 Fax  
<http://www.state.sd.us/denr/denr.html>

## Tennessee Dept. of Geology & Conservation

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

## Texas Railroad Commission Office of Information Services

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

## Utah Department of Natural Resources

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

## Virginia Division of Energy

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

## West Virginia Office of Oil & Gas

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

## Wyoming Dept. of Environmental Quality

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

## Wyoming Oil and Gas Conservation Commission

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

## Federal Organizations

### Energy Information Administration

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

### Federal Energy Regulatory Committee

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

### National Petroleum Technology Office

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

### U.S. Department of Energy

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

### U.S. 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: 202-208-5242 U.S.  
[www.blm.gov](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/>

# COOPERATING OIL & GAS ASSOCIATIONS

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

**American Exploration & Production Council**  
1350 Eye St., NW, Suite 510  
Washington DC 20005  
(202) 652-2359  
<http://www.axpc.us/>

**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

**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

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

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

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

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

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

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

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

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

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

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

**Louisiana 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

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

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

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

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

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

**Panhandle Producers & Royalty Owners Assoc.**  
3131 Bell #209  
Amarillo, TX 79106  
(806) 352-5637  
(806) 359-1274 Fax  
<http://www.pproa.org>

# COOPERATING OIL & GAS ASSOCIATIONS

## **Pennsylvania Oil & Gas Association**

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

## **Permian Basin Petroleum Association**

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

## **Petroleum Association of Wyoming**

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

## **Petroleum Equipment Suppliers Association**

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

## **Petroleum Technology Transfer Council**

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

## **Society of Indep. Professional Earth Scientists**

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

## **Tennessee Oil & Gas Association**

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

## **Texas Alliance of Energy Producers**

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

## **Texas Independent Producers & Royalty Owners Association**

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

## **Virginia Oil & Gas Association**

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

## **Wyoming Independent Producers Association**

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

## **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

### **International Association of Drilling Contractors**

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

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

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

### **Mid-Continent Oil & Gas Association 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  
(308) 235-2108 Fax

### **North Dakota Petroleum Council**

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

## **Public Lands Advocacy**

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

## **Society of Petroleum Engineers**

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

## **Southeastern Ohio Oil & Gas Association**

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

## **Southwest Kansas Royalty Owners Association**

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

## **Texas Oil & Gas Association**

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

## **Utah Petroleum Association**

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

## **Western States Petroleum Association**

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

## **West Virginia Oil & Natural Gas Association**

P.O. Box 3231  
Charleston, WV 25332-3231  
(304) 343-1609  
<http://www.wvonga.com>

*American Oil & Gas Historical Society. For additional details, visit [www.aoghs.org](http://www.aoghs.org).*



# STATE EDUCATION PROGRAMS

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:

**Global Energy Management Academy - Lamar High School – International Baccalaureate World School**  
 3325 Westheimer  
 Houston, TX 77098-1099  
 713-522-5960  
 713-535-3769 Fax  
<http://hs.houstonisd.org/lamarHS>

**Academy of Petroleum E & P Technology - Milby High School**  
 1601 Broadway  
 Houston, TX 77012-3789  
 713-928-7401  
 713-928-7474 Fax  
<http://hs.houstonisd.org/milbyhs/>

**Westside Engineering & Geosciences Academy**  
 14201 Briar Forest Dr.  
 Houston, TX 77077-1806  
 281-920-8000  
 281-920-8059 Fax  
<http://hs.houstonisd.org/westsideHS/>

**Memorial High School**  
 935 Echo Lane  
 Houston, TX 77024  
 713-365-5110  
 713-365-5138 Fax  
<http://mhs.springbranchisd.com/>

**Western Hills International Baccalaureate High School**  
 3600 Boston Avenue  
 Fort Worth, Texas 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**  
**The University of Alabama**  
 Department of Geological Sciences-Geology  
 Ernest Mancini, Geology Professor  
 Office: (205) 348-4319  
 Fax: (205) 348-0818  
 Email: [faculty@geo.ua.edu](mailto:faculty@geo.ua.edu)  
 Website: <http://www.geo.ua.edu/index.php>

**Alaska**  
**University of Alaska-Fairbanks**  
 College of Engineering and Mines-Geological Engineering  
 Professor Gang Chen, Department Chair  
 Office: (907) 474-7388  
 Fax: (907) 474-6635  
 Email: [fyminge@uaf.edu](mailto:fyminge@uaf.edu)  
 Website: <http://www.alaska.edu/uaf/cem/ge/>

College of Engineering and Mines-Petroleum Engineering  
 Professor Shirish Patil, Department Chair  
 Office: (907) 474-7734  
 Fax: (907) 474-5912  
 Email: [fyipete@uaf.edu](mailto:fyipete@uaf.edu)  
 Website: <http://www.alaska.edu/uaf/cem/pete/>

**Arkansas**  
**Arkansas Tech University**  
 Department of Physical Sciences-Geology  
 Richard Cohoon, Dean and Professor of Geology  
 Office: (479) 964-0816  
 Fax: (479) 964-0837  
 Email: [rcchoon@atu.edu](mailto:rcchoon@atu.edu)  
 Website: <http://pls.atu.edu/physci/geology>

**University of Arkansas Community College at Morrilton**  
 Petroleum Technology Degree Program- Technical Certificate and A.A.S  
 Jeff Lambert, Petroleum Technology Professor  
 Office: (501) 977-2178  
 Fax: (501) 977-2134  
 Email: [lambert@uaccm.edu](mailto:lambert@uaccm.edu)  
 Website: <http://www.uaccm.edu/Academics/Academics.htm>

## California

**University of Southern California**  
 Viterbi School of Engineering-Petroleum Engineering  
 Iraj Ershaghi, Ph.D., P.E., Program Director  
 Office: (213) 740-0322  
 Fax: (213) 740-0324  
 Email: [peteng@usc.edu](mailto:peteng@usc.edu)  
 Website: <http://www.usc.edu/dept/peteng/>

**Stanford University**  
 Department of Energy Resources Engineering  
 Louis Durlofsky, Chairman and Professor  
 Office: (650) 723-4142  
 Fax: (650) 725-2099  
 Email: [lou@stanford.edu](mailto:lou@stanford.edu)  
 Website: <http://pangea.stanford.edu/ERE/about/>

**California State University, Long Beach**  
 Department of Geological Sciences-Petroleum Geology  
 Stan Finney, Department Chair  
 Office: (562) 985-8637  
 Fax: (562) 985-8638  
 Email: [scfinney@csulb.edu](mailto:scfinney@csulb.edu)  
 Website: <http://www.cnsm.csulb.edu/departments/geology/programs/graduate/petroleumgeology.shtml>

**California State University, Bakersfield**  
 Department of Geology-Petroleum Geology  
 Dr. Dick Baron, Department Chair  
 Office: (661) 654-3044  
 Fax: (661) 654-2040  
 Email: [dbaron@csub.edu](mailto:dbaron@csub.edu)  
 Website: <http://www.csub.edu/geology/>

## Colorado

**Colorado School of Mines**  
 Department of Petroleum Engineering-Petroleum Engineering  
 Dr. Craig W. Van Kirk, Department Head  
 Office: (303) 273-3740  
 Fax: (303) 273-3189  
 Email: [cvankirk@mines.edu](mailto:cvankirk@mines.edu)  
 Website: <http://www.mines.edu/academic/petroleum/>

# STATE EDUCATION PROGRAMS

Department of Geology and Geological Engineering-Petroleum Exploration and Development  
John D. Humphrey, Interim Department Head  
Office: (303) 273-3819  
Fax: (303) 273-3859  
Email: juhumphre@mines.edu  
Website: <http://www.mines.edu/academic/geology/>

## Colorado Mountain College

Process Technology-Petroleum Technology (Certificate)  
John Prater, Associate Professor of Energy  
Office: (970) 625-6947  
Fax: (970) 625-6927  
Email: jprater@coloradomtn.edu  
Website: [http://catalog.coloradomtn.edu/docs/0809/AAS\\_Cert\\_ProcessTech.pdf](http://catalog.coloradomtn.edu/docs/0809/AAS_Cert_ProcessTech.pdf)

## Mesa State College

Department of Business-Landman/Energy Management Concentration  
Dr. Morgan Bridge, Business Department Head  
Office: (970) 248-1169  
Fax: (970) 248-1730  
Email: mbridge@mesastate.edu  
Website: <https://www.mesastate.edu/schools/sbps/busadm/Index.htm>

## Western State College

Department of Business Administration, Professional Land and Resource Management  
Ed Grauke, Director and Moncrief Chair  
Office: (970) 943-2538  
Fax: (970) 943-7042  
Email: egrauke@western.edu  
Website: <http://www.western.edu/business/PLRM.html>

Department of Geology-Petroleum Geology  
Ronald J. Hill, Moncrief Chair in Petroleum Geology  
Office: (970) 943-2145  
Fax: (970) 943-7120  
Email: rhill@western.edu  
Website: <http://www.western.edu/geology/program.html>

## Colorado Northwestern Community College

Process Technology-Oil and Gas Associates Degree  
Conrad Stanley, Program Director  
Office: (970) 675-3375  
Fax: (970) 675-5046  
Email: Conrad.stanley@cnc.edu  
Website: [http://www.cnc.edu/programs/process\\_technology/default.html](http://www.cnc.edu/programs/process_technology/default.html)

## Kansas

### The University of Kansas

Department of Engineering-Petroleum Engineering  
Laurence R. Weatherley PhD, Department Chair  
Office: (785) 864-3553  
Fax: (785) 864-4967  
Email: lweather@ku.edu  
Website: <http://cpe.engr.ku.edu/petro/>

## Fort Hays State University

Department of Geosciences-Petroleum Geology  
Dr. Ken Neuhauser, Program Director  
Office: (785) 628-5349  
Department Fax: (785) 628-4096  
Email: kneuhaus@fhsu.edu  
Website: <http://www.fhsu.edu/geo/geology/petroleumgeology.shtml>

## Louisiana

### Louisiana State University

Department of Petroleum Engineering-Petroleum Engineering  
Stephen O. Sears, Department Chair  
Office: (225) 578-6055  
Fax: (225) 578-6039  
Email: sosesars@lsu.edu  
Website: <http://www.pete.lsu.edu/>

### University of Louisiana at Lafayette

Management Department-Professional Land and Resource Management  
Dr. Steve Knouse, Department Head  
Office: (337) 482-6087  
Fax: (337) 482-5898  
Email: sbk4151@louisiana.edu  
Website: [http://cobweb.louisiana.edu/New/academics/plrm\\_home.htm](http://cobweb.louisiana.edu/New/academics/plrm_home.htm)

### College of Engineering-Petroleum Engineering

Ali Ghalambor, Ph.D., Department Head  
Office: (337) 482-5748  
Fax: (337) 482-6848  
Email: axq8302@louisiana.edu  
Website: <http://petroleum.louisiana.edu/index.shtml>

### Nicholls State University

Department of Applied Sciences-Petroleum Technology  
Michael Gautreaux, Program Director  
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Fax: (985) 448-4475  
Email: michael.gautreaux@nicholls.edu  
Website: <http://www.nicholls.edu/doas/degree-programs/petroleum-services/>

### Tulane University

Freeman School of Business-Energy Specialization (Certificate)  
Eric Smith, Associate Director of Energy Institute  
Office: (504) 865-5031  
Fax: (504) 862-8327  
Email: esmith11@tulane.edu  
Website: <http://www.freeman.tulane.edu/energy/about.htm>

## Missouri

### University of Missouri-Rolla

Department of Geological Sciences and Engineering-Petroleum Engineering  
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Office: (573) 341-4758  
Fax: (573) 341-6935  
Email: numbere@mst.edu  
Website: <http://gse.mst.edu/academicprograms/petroleumengineering.html>

## Montana

### Montana Tech-University of Montana

School of Mines and Engineering-Petroleum Engineering  
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Office: (406) 496-4507  
Fax: (406) 496-4417  
Email: lhealth@mttech.edu  
Website: [http://www.mtech.edu/mines/pet\\_eng/](http://www.mtech.edu/mines/pet_eng/)

## New Mexico

### New Mexico Institute of Mining & Technology

Department of Petroleum and Natural Gas Engineering  
Her-Yuan Chen, Ph.D., Department Chair  
Office: (575) 835-5743  
Fax: (575) 835-5210  
Email: her@nmt.edu  
Website: <http://infohost.nmt.edu/~petro/index.html>

## North Dakota

### University of North Dakota

Department of Geology and Geological Engineering-Geological Engineering  
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Office: (701) 777-2631  
Fax: (701) 777-4449  
Email: willgosnold@mail.und.nodak.edu  
Website: [http://www.geology.und.edu/geoE\\_ugdegreedirectory.php](http://www.geology.und.edu/geoE_ugdegreedirectory.php)

## Ohio

### Marietta College

Department of Petroleum Engineering-Petroleum Engineering  
Dr. Robert Chase, Professor  
Office: (740) 376-4776  
Fax: (740) 376-4777  
Email: chaser@marietta.edu  
Website: <http://www.marietta.edu/~petr/index.html>

## Oklahoma

### University of Oklahoma

Price College of Business Department of Management-Energy Management  
Steve Long, Program Director  
Office: (405) 325-0758  
Fax: (405) 325-7499  
Email: slong@ou.edu  
Website: <http://price.ou.edu/academics/energymgmt.aspx>

ConocoPhillips School of Geology and Geophysics-Petroleum Geology  
Doug Elmore, Director and Eberly Chair  
Office: (405) 325-4493  
Fax: (405) 325-3140  
Email: delmore@ou.edu  
Website: <http://geology.ou.edu/index.html>

# STATE EDUCATION PROGRAMS

## **Mewbourne School of Petroleum and Geological Engineering- Petroleum Engineering**

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Office: (405) 325-6866  
Fax: (405) 325-7477  
Email: [crai@ou.edu](mailto:crai@ou.edu)  
Website: <http://mpge.ou.edu/>

## **University of Tulsa**

Collins College of Business Department of Energy Management-Energy Management  
Ted Jacobs, Program Director  
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Fax: (918) 631-3584  
Email: [ted-jacobs@utulsa.edu](mailto:ted-jacobs@utulsa.edu)  
Website: <http://www.cba.utulsa.edu/Depts/Energy/>

Department of Petroleum Engineering-  
Petroleum Engineering  
Mohan Kelkar, Department Chair  
Office: (918) 631-3036  
Fax: (918) 631-2533  
Email: [mohan@utulsa.edu](mailto:mohan@utulsa.edu)  
Website: <http://www.pe.utulsa.edu/>

## *Pennsylvania*

## **Pennsylvania State University**

Department of Energy and Mineral Engineering-Petroleum and Natural Gas Engineering  
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Office: (814) 865-6082  
Fax: (814) 863-1875  
Email: [eur@psu.edu](mailto:eur@psu.edu)  
Website: <http://www.pnge.psu.edu/index.html>

Department of Energy and Mineral Engineering-Energy Business and Finance  
Andrew N. Kleit, Program Officer and Professor  
Office: (814) 865-0711  
Fax: (814) 865-3663  
Email: [ank1@psu.edu](mailto:ank1@psu.edu)  
Website: <http://www.eme.psu.edu/ebf/index.html>

## **University of Pittsburgh**

Swanson School of Engineering-Chemical and Petroleum Engineering  
Badie Morsi, Program Director and Professor  
Office: (412) 624-9650  
Fax: (412) 624-9639  
Email: [morsi@engr.pitt.edu](mailto:morsi@engr.pitt.edu)  
Website: <http://www.engr.pitt.edu/chemical/index.html>

## *South Dakota*

## **South Dakota School of Mines & Technology**

Geology and Geological Engineering  
Department- Geological Engineering  
Maribeth Price, Department Chair  
Office: (605) 394-1290  
Fax: (605) 394-2461  
Email: [maribeth.price@sdsmt.edu](mailto:maribeth.price@sdsmt.edu)  
Website: <http://geology.sdsmt.edu/>

## *Texas*

## **Texas A&M**

Harold Vance Department of Petroleum Engineering-Petroleum Engineering  
Betty Robins, Program Assistant  
Office: (979) 845-2241  
Fax: (979) 862-6579  
Email: [betty@pe.tamu.edu](mailto:betty@pe.tamu.edu)  
Website: <http://www.pe.tamu.edu/>

## **Texas A&M-Kingsville**

Department of Chemical and Natural Gas Engineering-Natural Gas Engineering  
Ali A. Pilehvari, Department Chair  
Office: (361) 593-2089  
Fax: (361) 593-4026  
Email: [a-pilehvari@tamuk.edu](mailto:a-pilehvari@tamuk.edu)  
Website: <http://www.engineer.tamuk.edu/departments/ngen/index.html>

## **Texas Tech University**

Rawls College of Business-Energy Commerce  
Terry McInturff, Program Director  
Office: (806) 742-1609  
Fax: (806) 742-4535  
Email: [t.mcinturff@ttu.edu](mailto:t.mcinturff@ttu.edu)  
Website: <http://plm.ba.ttu.edu/index.html>

## **Department of Petroleum Engineering- Petroleum Engineering**

George Asquith, Department Chair  
Office: (806) 742-3573  
Fax: (806) 742-3502  
Email: [george.asquith@ttu.edu](mailto:george.asquith@ttu.edu)  
Website: <http://www.depts.ttu.edu/peWeb/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](mailto: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](mailto:avenf@uhd.edu)  
Website: [http://www.uhd.edu/academic/colleges/business/mmba/energy\\_min\\_index.htm](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](mailto: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: [bbrantly@kilgore.edu](mailto:bbrantly@kilgore.edu)  
Website: [http://www.kilgore.edu/petro\\_tech.asp](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](mailto:ghughes@panola.edu)  
Website: <http://www.panola.edu/instruction/srtc/index.html>

## **Midland College**

Petroleum Professional Development Center-Variou Studies/Certifications  
Hoxie Smith, Director  
Office: (432) 683-2832  
Fax: (432) 686-8089  
Email: [hsmith@midland.edu](mailto:hsmith@midland.edu)  
Website: <http://www.midland.edu/~ppdc/>

## **Del Mar College**

Technology Education Department-Process Technology  
Denise Rector, Assistant Professor  
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Fax: (361) 698-1868  
Email: [drector@delmar.edu](mailto: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  
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Fax: (304) 462-8709  
Email: [Charles.Sypolt@glenville.edu](mailto:Charles.Sypolt@glenville.edu)  
Website: [http://www.glenville.wvnet.edu/NRMLandmanTech\\_BS3.asp](http://www.glenville.wvnet.edu/NRMLandmanTech_BS3.asp)

# STATE EDUCATION PROGRAMS

## 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/](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/1.htm>

### University of Wyoming

Department of Chemical and Petroleum  
Engineering-Petroleum Engineering  
H. Gordon Harris, Department Head and  
Professor  
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Email: harrishg@uwyo.edu  
Website: [http://www.eng.uwyo.edu/  
chemical/](http://www.eng.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](http://haskayne.ucalgary.ca/undergrad/plma)

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Keelen Hauptman for IPAA - Summer  
Internship 2008.*



## ADDITIONAL ENERGY EDUCATION RESOURCES

### **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  
[www.blm.gov/ak/getenergized.html](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  
[www.energyquest.ca.gov/](http://www.energyquest.ca.gov/)

### **BP - California Community Relations "A+ for Energy"**

6 Centerpointe Drive  
La Palma, CA 90623  
<http://www.aplusforenergy.org/California/>

### **Western States Petroleum Association (WSPA)**

**"Derricks to Desks"**  
1415 L Street, Suite 600  
Sacramento, CA 95814  
(916) 498-7750  
(916) 444-5745 Fax.  
<http://www.wspa.org/news/derrickstodesksreg.htm>

### **Colorado School of Mines "Denver Earth Science Project"**

Office of Special Programs & Continuing  
Education  
Golden, CO 80401  
(303) 273-3621  
Fax: (303) 273-3314  
[www.mines.edu/Outreach/Cont\\_Ed/desp/desp.html](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  
[www.eeco-online.org](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  
[www.ohioenergy.org](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  
[www.oogEEP.org](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  
[www.oerb.com](http://www.oerb.com)

### **A+ for Energy (Texas)**

BP America Inc.  
3401 Palmer Highway, Room 445D  
Texas City, TX 77590  
[www.aplusforenergy.org/Texas](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  
[www.oceanstaroec.com](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**

[www.ferc.gov/students/index.htm](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.engr.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>

# 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.yopenergy.org](http://www.yopenergy.org)

## **Austin**

Director - Code Williams  
(512) 328-2953 ext. 255  
cwilliams1@jonesenergy.com

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(512) 475-9023  
davewatson@austin.utexas.edu

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Director - Joseph Elberts  
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## **China**

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## **Dallas**

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Director - Parker Heikes  
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## **Washington, DC**

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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](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  
<http://www.rchs.russellks.net/>

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

**Louisiana State Oil and Gas Museum**  
(318) 995-6845  
<http://www.sos.louisiana.gov/museums/oil/>

**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.html>

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

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

**Oklahoma Historical Society**  
(405) 521-2491  
<http://www.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/index.htm>

**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.html>

**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.htm>

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

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

**Choctaw County Historical Museum - AL**  
<http://www.ohwy.com/al/c/choccoh.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](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/>

# OIL AND GAS MUSEUMS

**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 Field 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 - OK**  
(580) 226-3857  
<http://visitors.ardmore.org/>

**Kerr Conference Center & Museum - OK**  
(918) 647-9579  
[http://www.carlalbert.edu/kerr\\_center/](http://www.carlalbert.edu/kerr_center/)

**Marland Oil Museum - OK**  
<http://www.marlandmansion.com/>

**Nowata County Historical Museum - OK**  
(918) 273-1191  
<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/museum/>

**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.tulsaohistory.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.clarion.edu/library/HarveyCenter/BMHCollection.htm>

**Coolspring Power Museum - 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/museum.html>

**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://thermopolis.com/Attractions/Museums/County+Museum.htm>

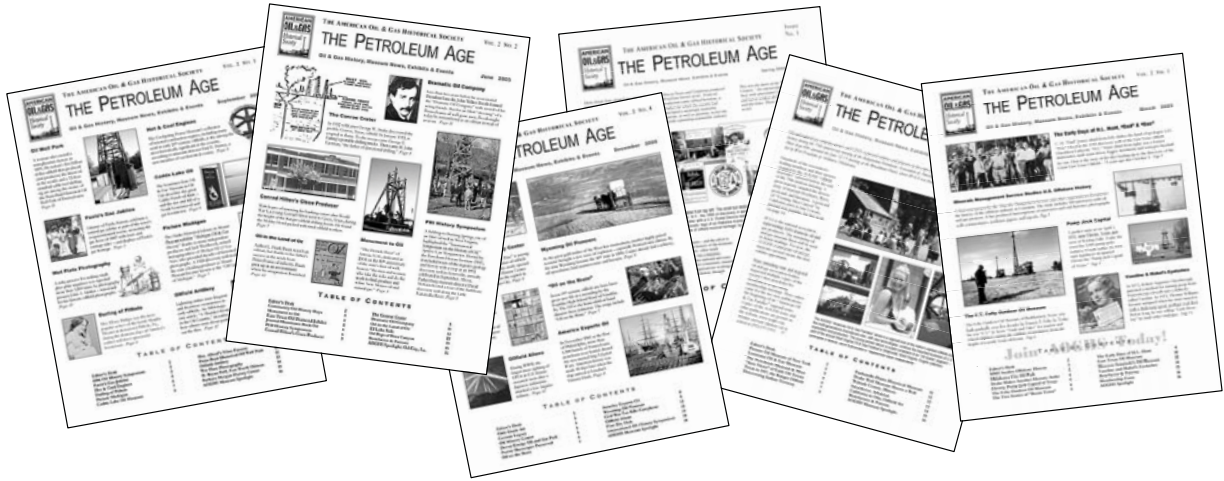
**Pioneer Association Museum of the American West - WY**  
(307) 332-4137  
<http://wyshs.org/mus-pioneerassoc.htm>

**Salt Creek Museum - WY**  
(307) 437-6513  
<http://wyshs.org/mus-saltcreek.htm>

**Tate Geological Museum - WY**  
(307) 268-2447  
[http://www.caspercollege.edu/community/campus/tate/tate\\_new/index.htm](http://www.caspercollege.edu/community/campus/tate/tate_new/index.htm)

*Oil and Gas museum information compiled by the American Oil and Gas Historical Society. For additional details, visit [www.aoghs.org](http://www.aoghs.org).*





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# STATE RANKINGS

<b>Crude Oil Wells Drilled</b>		<b>Natural Gas Wells Drilled</b>		<b>Crude Oil Production</b>		<b>Natural Gas Production</b>	
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	Louisiana	4	California	4	Oklahoma
5	Louisiana	5	Pennsylvania	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	Kansas
10	Pennsylvania	10	Federal Offshore	10	Montana	10	Michigan
11	Federal Offshore	11	Ohio	11	Kansas	11	Utah
12	Kentucky	12	Kentucky	12	Colorado	12	California
13	Michigan	13	Michigan	13	Utah	13	Alabama
14	Montana	14	Montana	14	Mississippi	14	West Virginia
15	New York	15	New York	15	Illinois	15	Arkansas
16	West Virginia	16	Alabama	16	Alabama	16	Pennsylvania
17	Arkansas	17	Arkansas	17	Arkansas	17	Montana
18	Colorado	18	California	18	Ohio	18	Virginia
19	Mississippi	19	Utah	19	Michigan	19	Kentucky
20	North Dakota	20	Virginia	20	Pennsylvania	20	Ohio
21	Utah	21	Mississippi	21	Florida	21	Mississippi
22	Indiana	22	Tennessee	22	Kentucky	22	New York
23	Nebraska	23	Illinois	23	Nebraska	23	North Dakota
24	Alaska	24	Indiana	24	West Virginia	24	Indiana
25	Tennessee	25	Nebraska	25	Indiana	25	Florida
26	Alabama	26	North Dakota	26	South Dakota	26	Tennessee
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	Oregon
30	Nevada	30	Missouri	30	Missouri	30	Arizona
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				

Sources: IHS for wells drilled and EIA for production.

# CRUDE OIL SUMMARY

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

Sources: Energy Information Administration\* and IHS.

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

# NATURAL GAS SUMMARY

Year	Production		Extraction Loss	Imports		Supply		Exports	Consumption	Gas Reserves		Price Gas Wellhead (\$/Mcf.)
	Marketed	Dry			Other	Total	Proved Reserves			New Reserves		
				(Bcf)								
1960	12,771	12,228	543	156	701	13,096	11	11,967	263,759	14,253	.14	
1961	13,254	12,662	592	219	686	13,578	11	12,489	267,728	17,421	.15	
1962	13,877	13,253	624	402	838	14,509	16	13,267	273,766	19,750	.16	
1963	14,747	14,077	670	406	899	15,399	17	13,970	276,151	18,418	.16	
1964	15,547	14,824	723	443	866	16,153	20	14,814	281,251	20,447	.15	
1965	16,040	15,287	753	456	934	16,703	26	15,280	286,469	21,470	.16	
1966	17,207	16,468	739	480	1,116	18,089	25	16,452	289,333	20,355	.16	
1967	18,171	17,386	785	564	1,052	19,084	82	17,388	292,908	21,956	.16	
1968	19,322	18,494	828	652	1,236	20,476	94	18,632	287,350	13,816	.16	
1969	20,698	19,831	867	727	1,329	21,938	51	20,056	275,109	8,482	.17	
1970	21,921	21,015	906	821	1,388	23,294	70	21,139	290,746	37,598	.17	
1971	22,493	21,610	883	935	1,427	24,052	80	21,793	278,806	10,136	.18	
1972	22,532	21,624	908	1,019	1,679	24,400	78	22,101	266,085	9,791	.19	
1973	22,648	21,731	917	1,033	1,456	24,297	77	22,049	249,950	6,471	.22	
1974	21,601	20,713	887	959	1,624	23,373	77	21,223	237,132	8,501	.30	
1975	20,109	19,236	872	953	1,687	21,949	73	19,538	228,200	10,786	.45	
1976	19,952	19,098	854	964	1,640	21,767	65	19,946	216,026	7,368	.58	
1977	20,025	19,163	863	1,011	1,654	21,884	56	19,521	207,413	12,978	.79	
1978	19,974	19,122	852	966	1,817	21,958	53	19,627	208,033	19,425	.91	
1979	20,471	19,663	808	1,253	1,620	22,592	56	20,241	200,997	12,221	1.18	
1980	20,180	19,403	777	985	1,385	21,822	49	19,877	199,021	16,723	1.59	
1981	19,956	19,181	775	904	1,499	21,643	59	19,404	201,730	21,446	1.98	
1982	18,582	17,820	762	933	1,647	20,452	52	18,001	201,512	17,288	2.46	
1983	16,884	16,094	790	918	1,523	18,590	55	16,835	200,247	14,523	2.59	
1984	18,304	17,466	838	843	1,894	20,258	55	17,951	197,463	14,409	2.66	
1985	17,270	16,454	816	950	2,005	19,464	55	17,281	193,369	11,891	2.51	
1986	16,859	16,059	800	750	1,364	18,234	61	16,221	191,586	13,827	1.94	
1987	17,433	16,621	812	993	1,484	19,152	54	17,211	187,211	11,739	1.67	
1988	17,918	17,103	816	1,294	1,807	20,278	74	18,030	168,024	-2,517	1.69	
1989	18,095	17,311	785	1,382	2,917	21,717	107	19,119	167,116	16,075	1.69	
1990	18,594	17,810	784	1,532	2,265	21,693	86	19,174	169,346	19,463	1.71	
1991	18,532	17,698	835	1,773	2,699	22,299	129	19,562	167,062	14,918	1.64	
1992	18,712	17,840	872	2,138	2,805	22,999	216	20,228	165,015	15,376	1.74	
1993	18,982	18,095	886	2,350	3,105	23,690	140	20,790	162,415	15,189	2.04	
1994	19,710	18,821	889	2,624	2,598	24,205	162	21,247	163,837	19,744	1.85	
1995	19,506	18,599	908	2,841	3,333	24,927	154	22,207	165,146	19,275	1.55	
1996	19,751	18,854	958	2,937	3,725	25,669	153	22,610	166,474	21,456	2.17	
1997	19,866	18,902	964	2,994	3,641	25,694	157	22,737	167,223	19,960	2.32	
1998	19,961	19,024	938	3,152	2,975	25,310	159	22,246	164,041	15,538	1.96	
1999	19,805	18,832	973	3,585	2,585	25,166	163	22,405	167,406	22,293	2.19	
2000	20,198	19,182	1,016	3,782	3,053	26,261	244	23,333	177,427	29,240	3.68	
2001	20,570	19,616	954	3,977	2,110	26,076	373	22,239	183,460	25,812	4.00	
2002	19,885	18,928	957	4,015	2,734	26,193	516	23,007	186,946	22,839	2.95	
2003	19,974	19,099	876	3,996	2,526	26,249	680	22,277	189,044	21,523	4.88	
2004	19,517	18,591	927	4,259	2,689	26,393	854	22,389	192,513	22,637	5.46	
2005	18,927	18,051	876	4,341	2,621	25,742	729	22,011	204,385	30,330	7.33	
2006	19,381	18,476	906	4,186	1,915	25,301	724	21,653	211,085	25,245	6.40	

Sources: Energy Information Administration.

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

# DRILLING SUMMARY

Year	Seismic Crews		Rotary Rigs		Exploratory Wells		Total Well Completions				Footage
	Working	Active	New-Field Wildcats	Total Exploratory	Oil Wells	Gas Wells	Dry Wells	Service Holes	Total Wells	Total Drilled (mill. ft.)	
1960	4,625	1,750	7,320	11,704	21,186	5,258	17,574	2,733	46,751	190.7	
1961	4,557	1,760	6,909	10,992	21,101	5,664	17,106	3,091	46,962	192.1	
1962	3,915	1,637	6,794	10,797	21,249	5,848	16,682	2,400	46,179	198.6	
1963	3,966	1,500	6,570	10,664	20,288	4,751	16,347	2,267	43,653	184.4	
1964	4,102	1,502	6,623	10,747	20,620	4,855	17,488	2,273	45,236	189.9	
1965	4,247	1,387	6,175	9,466	18,761	4,724	16,025	1,913	41,423	181.5	
1966	3,672	1,273	6,158	10,313	16,447	4,167	15,770	2,152	38,536	165.5	
1967	3,337	1,134	5,260	8,878	15,329	3,659	13,246	1,584	33,818	144.7	
1968	3,268	1,169	5,205	8,879	14,331	3,456	12,812	2,315	32,914	149.3	
1969	3,156	1,194	5,956	9,701	14,368	4,083	13,736	1,866	34,053	161.0	
1970	2,340	1,028	4,829	7,436	13,043	4,031	11,099	1,369	29,542	142.0	
1971	2,655	976	4,636	7,131	11,903	3,983	10,382	1,414	27,682	130.7	
1972	3,016	1,107	5,011	7,551	11,437	5,484	11,013	1,486	29,420	142.5	
1973	2,999	1,195	5,096	7,771	10,251	6,975	10,466	970	28,662	141.9	
1974	3,662	1,471	5,946	8,969	13,644	7,168	12,205	1,398	34,415	153.8	
1975	3,416	1,660	6,234	9,459	16,979	8,169	13,736	1,920	40,804	184.9	
1976	3,140	1,656	5,856	9,317	17,697	9,438	13,805	1,674	42,614	187.3	
1977	3,063	2,001	6,162	10,140	18,700	12,119	15,036	1,453	47,308	215.7	
1978	4,148	2,255	6,731	11,030	19,065	14,405	16,591	1,610	51,671	238.4	
1979	4,400	2,176	6,423	10,735	20,689	15,166	16,035	1,472	53,362	243.7	
1980	4,962	2,910	7,332	12,870	32,120	17,132	20,234	2,076	71,562	311.4	
1981	5,877	3,970	9,151	17,430	42,520	19,742	26,972	2,366	91,600	406.5	
1982	5,676	3,105	7,386	15,882	39,252	18,810	25,827	2,212	86,101	375.4	
1983	4,944	2,229	6,057	13,845	37,396	14,505	23,837	2,047	77,785	316.7	
1984	4,655	2,428	6,528	15,138	44,472	14,962	25,549	2,251	87,234	368.8	
1985	3,494	1,969	5,630	12,208	36,458	12,917	21,431	1,736	75,542	316.8	
1986	2,016	964	3,484	7,156	18,598	8,055	12,362	834	39,849	177.6	
1987	1,561	936	3,515	6,903	16,441	8,114	11,698	890	37,143	163.8	
1988	1,512	936	3,271	6,350	13,508	8,446	10,284	953	33,191	155.2	
1989	1,392	869	2,644	5,251	10,412	9,483	8,468	672	29,035	135.0	
1990	1,493	1,010	2,685	5,074	12,104	10,242	8,359	802	31,417	149.5	
1991	1,251	862	2,195	4,399	11,733	9,020	7,664	1,070	29,487	141.4	
1992	847	721	1,762	3,525	8,821	7,854	6,394	989	24,058	121.3	
1993	952	755	1,683	3,603	9,144	10,285	6,594	716	25,724	138.5	
1994	1,087	775	1,613	3,787	7,704	10,044	5,568	669	23,985	130.6	
1995	1,253	723	1,605	3,402	8,736	8,923	5,425	885	23,969	124.5	
1996	1,307	779	1,676	3,342	9,937	10,118	5,698	791	26,544	138.7	
1997	1,336	943	1,757	3,155	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	

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.



# UNITED STATES



## 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)	31,481
Natural gas (Texas)	30,712

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

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

### Cumulative number of total wells drilled

as of 12/31/06 (excluding service wells)

Oil wells	1,507,245	48%
Gas wells	664,079	21%
Dry holes	982,167	31%
Total	3,153,496	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$) \$2,005,238,242

### Cumulative production & new reserves

as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	209,623	49,337	258,960	1,273,956
Production	188,741	37,674	226,415	1,065,570

## Value of Oil and Gas

### Average wellhead price

(2006)

Crude oil (\$/bbl.)	\$59.69
Natural gas (\$/Mcf)	\$ 6.40

### Wellhead value of production

(2006, in thous. \$)

Crude oil	\$ 111,158,240
Natural gas	\$124,044,128
Total	\$235,202,368

### Average natural gas price

(2006, \$/Mcf)

Residential consumers	\$13.75
Commercial consumers	\$11.99
Industrial consumers	\$ 7.86
Electric utilities	\$ 7.11
City Gate	\$ 8.61

### Severance taxes paid

(2006, in thous. \$) \$9,711,307

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	805	12,345	13,150
Gas	2,254	28,095	30,349
Dry	1,309	3,365	4,674
Total	4,368	43,805	48,173

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	5,685.6	55,315.7	61,001.3
Gas	12,813.2	169,558.0	182,371.2
Dry	7,358.5	16,131.2	23,489.8
Total	25,857.3	241,004.9	266,862.2

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

New-field wildcats drilled	2,275
Footage (thous. ft.)	13,497.8

Average rotary rigs active	1,649
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Permits	75,455
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### World-wide rank

	Crude Oil	Natural Gas
Wells drilled	1st	1st
Production	3rd	2nd
Reserves (2006)	12th	5th

Number of operators	16,013
---------------------	--------

### Number of producing wells

(12/31/06)

Crude oil	400,741
Natural gas	369,586
Total	773,069

### Average production

Crude oil (thous. b/d)	4,482
Natural gas	48,867
Total	54,349

### Natural gas marketed production

(MMcf) 19,409,674

### Average output per producing well

Crude oil (bbls.)	3,071
Natural gas (Mcf)	42,219

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	867	1,118	1,985
Production	1,652	811	2,463
Net annual change	-785	307	-478
Proved reserves	20,972	8,472	29,444

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	3,685	22,796	25,245
Production	2,281	17,092	18,545
Net annual change	1,404	5,704	6,700
Proved reserves	29,640	190,776	211,085

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	305	1,413,215	18,583,779
Gas	332	1,996,884	60,603,424
Dry	268	1,347,775	6,299,501

### Marginal oil wells

Producing marginal wells	355,177
Crude oil production in bbls. (thous.)	359,339
Crude oil production b/d (thous.)	984

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	261,437
Natural gas production (MMcf)	2,450,958

### Federal onshore mineral lease royalties

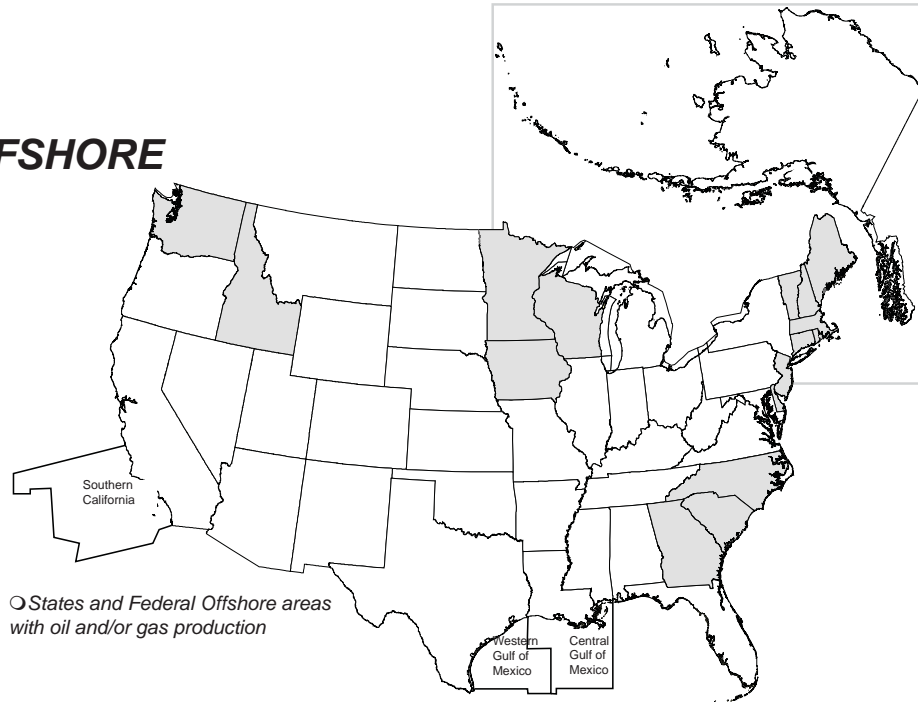
Oil	\$ 4,262,953,675
Gas	\$ 5,765,932,458
Total Royalties	\$12,616,328,035

### Average number of employees

Oil and natural gas extraction	403,358
Refining	69,124
Transportation	231,809
Wholesale	191,759
Retail	862,064
Pipeline construction	83,408
Oilfield machinery	52,382
Total petroleum industry	1,825,703

Source: EIA for production and IHS for wells drilled.

# FEDERAL OFFSHORE



## Background Information

Planning Areas	
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	26,712

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

Water depth (2004)	10,062
Well depth (2005)	30,505

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	20,973	33%
Gas wells	25,421	39%
Dry holes	18,161	28%
Total	64,555	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$)	\$289,157,519
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### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	21,314	4,700	21,314	103,401
Production	15,160	2,747	17,907	63,032

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$60.41
Natural gas (\$/Mcf)	\$ 6.40

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$30,211,826
Natural gas	\$18,909,043
Total	\$49,120,870

### Federal Reserves (2006, in thous. \$)

Bonuses	\$ 865.26
Rents	\$ 224.01
Royalties	\$6,559.00
Total	\$7,606.77

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	1	127	128
Gas	28	265	293
Dry	126	91	217
Total	155	483	638

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	15.4	1,306.9	1,322.3
Gas	254.9	2,780.2	3,035.1
Dry	1,623.0	939.9	2,562.9
Total	1,893.3	5,027.0	6,920.3

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

New-field wildcats drilled	146
Footage (thous. ft.)	1,752.3

Average rotary rigs active	90
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Permits	1,177
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	11th	10th
Production	1st	2nd
Reserves (2006)	2nd	6th

### Number of producing wells

(12/31/06)

Crude oil	3,146
Natural gas	3,367
Total	6,513

### Average production

Crude oil (thous. b/d)	1,182
NGL (est.)	181
Natural gas (MMcf/day)	1,612

### Natural gas marketed production

(MMcf) 19,381,895

### Average output per producing well

Crude oil (bbls.)	137,101
Natural gas (Mcf)	705,489

### Producing well depth

	Oil Wells	Gas Wells
Shelf (wd <1,000ft)	2,722	3,218
Deep (wd 1,000-4,999 ft)	389	128
Ultra Deep (wd >5,000 ft)	35	22
Total	3,146	3,368

### Number of operators

Producing oil	71
Producing natural gas	103

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	44	82	126
Production	431	125	556
Net annual change	-387	-43	-430
Proved reserves	4,096	653	4,749

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-434	773	304
Production	635	2,206	2,775
Net annual change	-1,069	-1,433	-2,471
Proved reserves	4,835	10,915	15,360

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	3,352	34,624,729	4,431,965
Gas	3,509	36,346,199	10,649,436
Dry	3,576	42,234,002	9,164,778

## 2006 Lease Statistics

G&G permits	105
Platform installations	109
Platform removals	102
Platform in place	3,922

### Lease characteristics

Existing leases	
<200 meters of water	3,204
200-400 meters of water	102
401-900 meters of water	86
>900 meters of water	112

### Oil & natural gas fields

Producing	830
Non-producing	390

### Federal onshore mineral lease royalties

Oil	\$3,398,971,818
Gas	\$3,160,028,663
Total Royalties	\$7,606,767,938

### *The Kermac No. 16 discovery well*

struck oil in the Gulf of Mexico on Nov. 14, 1947 — the first successful well out of sight of land. Brown & Root built the freestanding platform 10 miles from shore for Kerr-McGee Oil Industries and partners Phillips Petroleum and Stanolind.

# ALABAMA



## Background Information

### Counties

Number of counties	67
With oil and/or gas production	21

### 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	23,505

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

1995	24,275
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### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	1,365	10%
Gas wells	7,802	57%
Dry holes	4,583	33%
Total	13,750	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$11,131,033

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	510	406	916	8,512
Production	482	370	852	6,887

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$63.16
Natural gas (\$/Mcf)	\$ 7.57

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$ 475,658
Natural gas	\$2,166,685
Total	\$2,642,343

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$18.80
Commercial consumers	\$15.82
Industrial consumers	\$ 9.46
Electric utilities	\$ 7.32
City Gate	\$10.26

### Severance taxes paid (2006 in thous. \$)

\$177,280



## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	3	13	16
Gas	7	373	380
Dry	23	21	44
Total	33	407	440

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	37.5	153.2	190.5
Gas	23.8	1,016.6	1,040.4
Dry	198.2	94	292.2
Total	259.3	1,263.8	1,523.1

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

New-field wildcats drilled	24
Footage (thous. ft.)	189.8

Average rotary rigs active	5
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Permits	708
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	26th	16th
Production	16th	13th
Reserves (2006)	18th	12th

Number of operators	85
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### Number of producing wells

(12/31/06)

Crude oil	493
Natural gas	5,523
Total	6,016

### Average production

Crude oil (thous. b/d)	14
NGL (thous. b/d)	6.3
Natural gas (MMcf/d)	796

### Natural gas marketed production

(MMcf) 286,220

### Average output per producing well

Crude oil (bbls.)	10,703
Natural gas (Mcf)	52,604

### Coalbed methane (YTD MMcf)

Oil Wells	3
Gas Wells	5,060
Daily Average (MMcf) / Well	320

### Heavy oil (YTD BBls, in thous.)

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

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-5	0	-5
Production	5	5	10
Net annual change	-10	-5	15
Proved reserves	45	56	101

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-7	254	233
Production	4	286	287
Net annual change	-11	-32	-54
Proved reserves	18	3,945	3,911

### Cost of drilling and equipping wells

	Cost/ft (\$)	Cost well (\$)	Total Cost (thous. \$)
Oil	454	5,412,007	86,592
Gas	211	577,847	219,582
Dry	276	1,834,373	80,712

### Marginal oil wells

Producing marginal wells	320
Crude oil production in bbls. (thous.)	706
Crude oil production b/d (thous.)	2

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	4,165
Natural gas production (MMcf)	60,255

### Federal onshore mineral lease royalties

Oil	\$ 729,991
Gas	\$ 915,536
Total Royalties	\$1,981,892

### Horizontal wells data

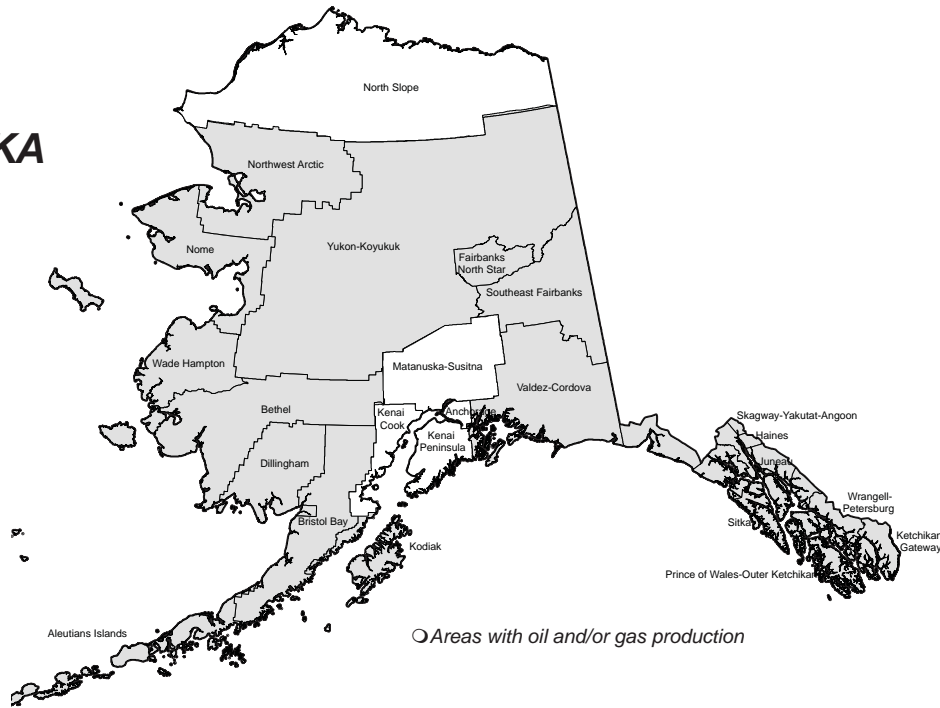
Horizontal wells drilled	13
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### Average number of employees

Oil and natural gas extraction	1,957
Refining	948
Transportation	3,329
Wholesale	3,145
Retail	19,001
Pipeline construction	3,329
Oilfield machinery	0
Total petroleum industry	29,437

Hunt Oil company drilled the A.R. Jackson Well No. 1 near Gilbertown in January 1944. The well found commercial quantities of oil at a depth of 2,580 feet. The State Oil and Gas Board of Alabama was formed the following year.

# ALASKA



## Background Information

### Areas

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

### First year of production

Crude oil	1905
Natural gas	1945

### Year and amount of peak production

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

### Deepest producing well (ft.)

Crude oil	22,261
Natural gas	17,864

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

2002	23,885
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### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	4,535	78%
Gas wells	298	5%
Dry holes	986	17%
Total	5,819	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$241,769,045

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	19,942	510	20,452	22,830
Production	15,654	368	16,022	11,733

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$57.03
Natural gas (\$/Mcf)	\$ 5.79

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$15,425,817
Natural gas	\$ 2,574,952
Total	\$18,000,769

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$6.84
Commercial consumers	\$4.75
Industrial consumers	\$3.70
Electric utilities	\$3.65
City Gate	\$5.25

### Severance taxes paid (2006, in thous. \$)

\$ 1,061,672

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	1	112	113
Gas	1	6	7
Dry	9	3	12
Total	11	121	132

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	11.5	835.6	847.2
Gas	8.2	42.5	50.7
Dry	60.4	12.3	72.7
Total	80.1	890.4	970.5

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

New-field wildcats drilled	5
Footage (thous. ft.)	37.7

Average rotary rigs active	8
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Permits	187
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	24th	27th
Production	3rd	8th
Reserves (2006)	3rd	8th

Number of operators	6
---------------------	---

### Number of producing wells

(12/31/06)

Crude oil	2,465
Natural gas	193
Total	2,658

### Average production

Crude oil (thous. b/d)	737
NGL (thous. b/d)	3.9
Natural gas (MMcf/day)	796

### Natural gas marketed production

(MMcf)	444,724
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### Average output per producing well

Crude oil (bbls.)	109,189
Natural gas (Mcf)	1,040,335

### Coalbed methane (YTD MMcf)

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: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-50	0	-50
Production	242	14	256
Net annual change	-292	-14	-306
Proved reserves	3,979	338	4,317

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	2,742	-236	2,482
Production	218	192	408
Net annual change	2,524	-428	2,074
Proved reserves	8,886	1,447	10,245

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	3,410	25,564,678	2,888,809
Gas	2,120	15,350,642	107,454
Dry	2,799	16,946,151	203,354

### Marginal oil wells

Producing marginal wells	154
Crude oil production in bbls. (thous.)	326
Crude oil production b/d (thous.)	1

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	0
Natural gas production (MMcf)	0

### Federal onshore mineral lease royalties

Oil	\$ 3,096,217
Gas	\$15,133,069
Total Royalties	\$24,144,428

### Horizontal wells data

Horizontal wells drilled	81
--------------------------	----

### Average number of employees

Oil and natural gas extraction	10,434
Refining	414
Transportation	0
Wholesale	1,355
Retail	1,804
Pipeline construction	481
Oilfield machinery	0
Total petroleum industry	14,488

Discovery of Alaska's first commercial oilfield took place near Katella in 1902. The Trans-Alaska pipeline was completed in 1977.

# 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.)

1981	18,013
------	--------

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	71	6%
Gas wells	52	5%
Dry holes	985	89%
Total	1,108	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$70,805,188

### Cumulative production & new reserves as of 12/31/06

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

## Value of Oil and Gas

### Average wellhead price\* (2006)

Crude oil (\$/bbl.)	\$61.51
Natural gas (\$/Mcf)	\$ 5.88

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$3,383
Natural gas	\$3,593
Total	\$6,976

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$16.32
Commercial consumers	\$12.11
Industrial consumers	\$ 9.90
Electric utilities	\$ 6.48
City Gate	\$ 7.67

### Severance taxes paid (2006, in thous. \$)

\$7,979

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	1	NA	1
Total	1	NA	1

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	7.0	NA	7.0
Total	7.0	NA	7.0

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

New-field wildcats drilled	1
Footage (thous. ft.)	7.0

Average rotary rigs active	0
----------------------------	---

Permits	12
---------	----

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	31st	32nd
Production	31st	30th
Reserves (2006)	NA	NA

Number of operators	3
---------------------	---

### Number of producing wells

(12/31/06)

Crude oil	25
Natural gas	5
Total	30

### Average production

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

### Natural gas marketed production

(MMcf)

611

### Average output per producing well

Crude oil (bbls.)	2,121
Natural gas (Mcf)	104,379

### Coalbed methane (YTD MMcf)

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: EIA for production and IHS for wells drilled.  
\* State Data.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

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

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry 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/ well (\$)	Total Cost (thous. \$)
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	146	1,021,580	1,022

### Marginal oil wells

Producing marginal wells	24
Crude oil production in bbls. (thous.)	40
Crude oil production b/d (thous.)	0

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	2
Natural gas production (MMcf)	26

### Federal onshore mineral lease royalties

Oil	\$ 510,100
Gas	\$ 53,591
Total Royalties	\$69,493,470

### Horizontal wells data

Horizontal wells drilled	0
--------------------------	---

### Average number of employees

Oil and natural gas extraction	268
Refining	215
Transportation	429
Wholesale	1,935
Retail	16,582
Pipeline construction	779
Oilfield machinery	0
Total petroleum industry	20,208

*In 1902, Joseph Heslet drilled northern Arizona's first oil well near Paulden oil seeps. Although it was a dry hole, prospectors and speculators swarmed in. By 1918, no commercial oil deposits were found, and the boom was over.*



# ARKANSAS



○ 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 — 224,446 MMcf	1996

### 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 12/31/06 (excluding service wells)

Oil wells	14,259	40%
Gas wells	6,804	19%
Dry holes	14,600	41%
Total	35,763	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$)	\$11,084,981
----------------------------	--------------

### Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,827	94	1,921	10,307
Production	1,756	89	1,845	7,758

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$ 58.67
Natural gas (\$/Mcf)	\$ 6.43

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$ 358,112
Natural gas	\$1,242,649
Total	\$1,600,761

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$ 14.15
Commercial consumers	\$ 10.72
Industrial consumers	\$ 9.51
Electric utilities	\$ 6.38
City Gate	\$ 7.96

### Severance taxes paid

(2006, in thous. \$)	\$15,078
----------------------	----------

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	1	38	39
Gas	53	342	395
Dry	24	37	61
Total	78	417	495

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	5.0	136.1	141.1
Gas	343.0	2,058.9	2,401.9
Dry	144.3	194.5	338.8
Total	492.3	2,389.5	2,881.8

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

New-field wildcats drilled	55
Footage (thous. ft.)	348.7

Average rotary rigs active	24
----------------------------	----

Permits	801
---------	-----

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	17th	17th
Production	17th	15th
Reserves (2006)	19th	18th

Number of operators	315
---------------------	-----

### Number of producing wells

(12/31/06)

Crude oil	2,505
Natural gas	4,481
Total	6,986

### Average production

Crude oil (thous. b/d)	14
NGL (thous. b/d)	0
Natural gas (MMcf/day)	529

### Natural gas marketed production

(MMcf)

193,258

### Average output per producing well

Crude oil (bbls.)	2,113
Natural gas (Mcf)	43,069

Coalbed methane (YTD MMcf)	2,268
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: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	3	1	4
Production	6	0	6
Net annual change	-3	1	-2
Proved reserves	37	4	41

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	3	489	493
Production	5	183	188
Net annual change	-2	306	305
Proved reserves	44	2,227	2,269

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	140	505,825	19,727
Gas	216	1,311,007	517,848
Dry	153	852,125	51,980

### Marginal oil wells

Producing marginal wells	2,883
Crude oil production in bbls. (thous.)	2,259
Crude oil production b/d (thous.)	8

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	2,888
Natural gas production (MMcf)	38,001

### Federal onshore mineral lease royalties

Oil	\$ 244
Gas	\$ 8,974,165
Total Royalties	\$ 16,514,329

### Horizontal wells data

Horizontal wells drilled	107
--------------------------	-----

### Average number of employees

Oil and natural gas extraction	2,926
Refining	633
Transportation	1,879
Wholesale	2,234
Retail	12,586
Pipeline construction	402
Oilfield machinery	0
Total petroleum industry	20,660

*The Busey-Armstrong No. 1 well* came in on Jan. 10, 1921, and quickly catapulted the population of El Dorado from 4,000 to 25,000. H. L. Hunt arrived with a borrowed \$50 and joined lease traders and speculators at the Garrett Hotel — where fortunes were made and lost.

# CALIFORNIA



## Background Information

### Counties

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

### First year of production

Crude oil	1861
Natural gas	1889

### Year and amount of peak production

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

### Deepest producing well (ft.)

Crude oil	15,177
Natural gas	18,114

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

1993	24,426
------	--------

### Cumulative number of total wells drilled

as of 12/31/06 (excluding service wells)

Oil wells	145,055	79%
Gas wells	6,098	3%
Dry holes	33,224	18%
Total	184,377	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$) \$210,900,625

### Cumulative production & new reserves

as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	31,029	1,553	32,582	46,221
Production	24,608	1,391	25,999	36,493

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$ 54.78
Natural gas (\$/Mcf)	\$ 6.47

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$12,240,536
Natural gas	\$ 2,039,402
Total	\$14,279,938

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$ 11.79
Commercial consumers	\$ 10.43
Industrial consumers	\$ 9.30
Electric utilities	\$ 6.71
City Gate	\$ 6.76

### Severance taxes paid (2006, in thous. \$)

	\$328,876
--	-----------

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	4	2,286	2,290
Gas	5	124	129
Dry	21	54	75
Total	30	2,464	2,494

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	11.4	5,474.4	5,485.8
Gas	25.1	772.9	798.0
Dry	140.9	275.0	415.9
Total	177.5	6,522.3	6,699.8

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

New-field wildcats drilled 13

Footage (thous. ft.) 80.9

Average rotary rigs active 33

Permits 4,149

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	3rd	18th
Production	4th	12th
Reserves (2006)	4th	15th

Number of operators 396

### Number of producing wells

(12/31/06)

Crude oil	49,705
Natural gas	1,715
Total	51,420

### Average production

Crude oil (thous. b/d)	611
NGL (thous. b/d)	0.6
Natural gas (MMcf/day)	248

### Natural gas marketed production

(MMcf) 315,209

### Average output per producing well

Crude oil (bbls.)	4,484
Natural gas (Mcf)	52,772

### Coalbed methane (YTD MMcf)

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

Heavy oil (YTD BBls, in thous.) 214,134

Wells	45,095
Av. Bbls per day	586.7
Av. Bbls per well/d	4,749

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	176	6	182
Production	222	11	233
Net annual change	-46	-5	-51
Proved reserves	3,389	132	3,521

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-250	69	-179
Production	180	88	255
Net annual change	-439	-19	-434
Proved reserves	2,155	780	2,794

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	471	1,128,932	2,585,255
Gas	176	1,087,583	140,298
Dry	283	1,566,758	177,507

### Marginal oil wells

Producing marginal wells	36,126
Crude oil production in bbls. (thous.)	69,591
Crude oil production b/d (thous.)	191

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	835
Natural gas production (MMcf)	10,121

### Federal onshore mineral lease royalties

Oil	\$ 81,483,968
Gas	\$ 5,719,014
Total Royalties	\$ 87,202,982

### Horizontal wells data

Horizontal wells drilled 150

### Average number of employees

Oil and natural gas extraction	17,988
Refining	12,992
Transportation	3,740
Wholesale	4,843
Retail	54,180
Pipeline construction	1,854
Oilfield machinery	6,480
Total petroleum industry	102,077

*In the early 1860s, Josiah Stanford dug about 30 tunnels into Sulphur Mountain near Santa Paula, slanting them upwards so oil would flow down to the entrances. Stanford's tunnels produced more oil in California than any other production method of the day.*

# COLORADO



○ 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 — 1,217,865 MMcf	2006

### 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 12/31/06 (excluding service wells)

Oil wells	13,504	18%
Gas wells	34,025	47%
Dry holes	25,426	35%
Total	72,955	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$) \$22,780,004

### Cumulative production & new reserves

as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	2,200	1,014	3,214	34,404
Production	1,950	523	2,473	16,494

## Value of Oil and Gas

### Average wellhead price

(2006)

Crude oil (\$/bbl.)	\$63.80
Natural gas (\$/Mcf)	\$ 6.12

### Wellhead value of production

(2006, in thous. \$)

Crude oil	\$ 1,492,282
Natural gas	\$ 7,361,265
Total	\$ 8,853,547

### Average natural gas price

(2006, \$/Mcf)

Residential consumers	\$10.45
Commercial consumers	\$ 9.61
Industrial consumers	\$11.53
Electric utilities	\$ 6.22
City Gate	\$ 7.61

### Severance taxes paid

(2006, in thous. \$)

\$196,668



## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	3	36	39
Gas	104	2,730	2,834
Dry	51	79	130
Total	158	2,845	3,003

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	15.1	236.6	251.7
Gas	560.9	15,843.9	16,404.8
Dry	271.7	329.9	601.6
Total	847.8	16,410.4	17,258.2

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

New-field wildcats drilled	101
Footage (thous. ft.)	512.8

Average rotary rigs active	89
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Permits	5,888
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	18th	8th
Production	12th	7th
Reserves (2006)	12th	5th

Number of operators	353
---------------------	-----

### Number of producing wells

(12/31/06)

Crude oil	5,049
Natural gas	28,407
Total	33,456

### Average production

Crude oil (thous. b/d)	31
NGL (thous. b/d)	34.6
Natural gas (MMcf/day)	3,337

### Natural gas marketed production

(MMcf) 1,202,821

### Average output per producing well

Crude oil (bbls.)	2,249
Natural gas (Mcf)	42,872

### Coalbed methane (YTD MMcf)

Oil Wells	8
Gas Wells	4,052
Daily Average (MMcf) / Well	1,418

### Heavy oil (YTD BBls, in thous.)

Wells	23
Av. Bbls per day	0.1
Av. Bbls per well/d	978

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	42	26	68
Production	18	32	50
Net annual change	24	-6	18
Proved reserves	274	478	752

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	311	1,460	1,727
Production	96	1,115	1,174
Net annual change	215	345	553
Proved reserves	1,541	16,141	17,149

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	218	1,407,770	54,903
Gas	374	2,164,209	133,367
Dry	196	905,546	17,721

### Marginal oil wells

Producing marginal wells	4,318
Crude oil production in bbls. (thous.)	3,970
Crude oil production b/d (thous.)	11

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	20,404
Natural gas production (MMcf)	243,647

### Federal onshore mineral lease royalties

Oil	\$ 39,293,385
Gas	\$399,527,690
Total Royalties	\$526,645,502

### Horizontal wells data

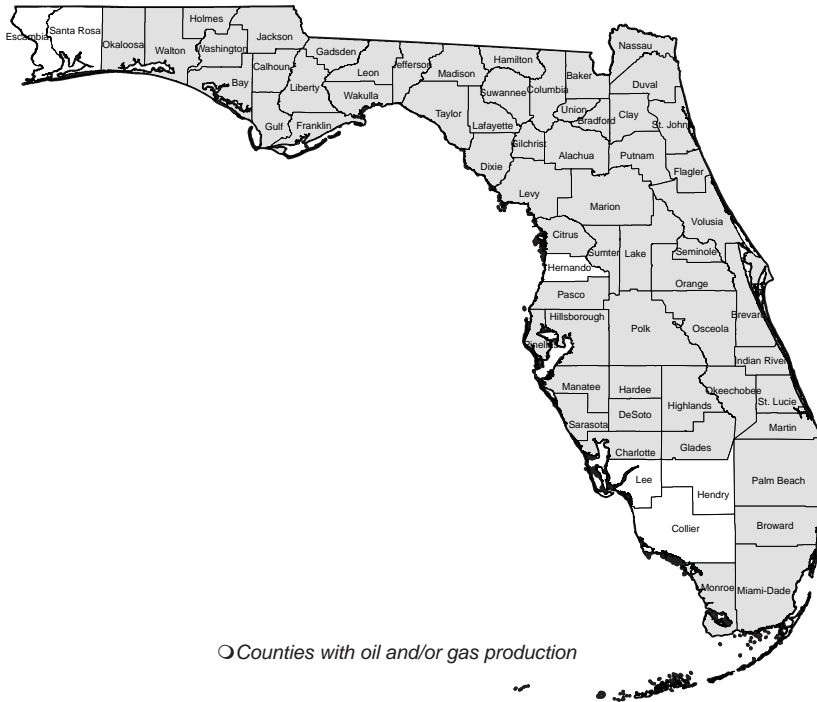
Horizontal wells drilled	29
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### Average number of employees

Oil and natural gas extraction	15,589
Refining	0
Transportation	2,139
Wholesale	2,049
Retail	12,559
Pipeline construction	2,988
Oilfield machinery	148
Total petroleum industry	35,472

On a coal lease near Florence, in 1881, Alexander Cassidy drilled for water but hit oil instead at 1,445 feet. At the height of the boom, 25 oil companies and three refineries operated out of Florence.

# 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	18,806
------	--------

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

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

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$9,352,458

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	717	83	800	652
Production	678	86	764	596

## Value of Oil and Gas

### Average wellhead price (2006)

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

### Wellhead value of production (2006, in thous. \$)

Crude oil	NA
Natural gas	NA
Total	NA

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$21.54
Commercial consumers	\$13.91
Industrial consumers	\$11.66
Electric utilities	\$ 8.62
City Gate	\$ 8.32

### Severance taxes paid (2006, in thous. \$)

\$9,527

## 2006 Industry Statistics

### Number of wells drilled

	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: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.) NA

### Average rotary rigs active

0

### Permits

0

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	29th	34th
Production	21st	24th
Reserves (2006)	20th	24th

### Number of operators

5

### Number of producing wells

(12/31/06)

Crude oil	65
Natural gas	0
Total	65

### Average production

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

### Natural gas marketed production

(MMcf)

2,540

### Average output per producing well

Crude oil (bbls.)	36,146
Natural gas (Mcf)	0

### Coalbed methane (YTD MMcf)

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: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-19	-4	-23
Production	2	0	2
Net annual change	-21	-4	-25
Proved reserves	38	3	41

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-34	0	-30
Production	3	0	2
Net annual change	-37	0	-32
Proved reserves	50	0	45

### Cost of drilling and equipping wells

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

### Marginal oil wells

Producing marginal wells	8
Crude oil production in bbls. (thous.)	20
Crude oil production b/d (thous.)	0

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	0
Natural gas production (MMcf)	

### Federal onshore mineral lease royalties

Oil	--
Gas	--
Total Royalties	\$28,736

### Horizontal wells data

Horizontal wells drilled NA

### Average number of employees

Oil and natural gas extraction	1,513
Refining	465
Transportation	3,540
Wholesale	6,919
Retail	39,969
Pipeline construction	722
Oilfield machinery	0
Total petroleum industry	53,128

Florida's first producing well came in on Sept. 26, 1943. Humble Oil Co. drilled to 11,626 feet with its Sunniland No. 1 well. The site is by the present day Big Cypress Preserve and a 30-minute drive from the resort city of Naples.



○ Counties with oil and/or gas production

## 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 12/31/06 (excluding service wells)

Oil wells	64,519	55%
Gas wells	1,164	1%
Dry holes	51,534	44%
Total	117,220	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$21,417,762

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	3,595	NA	3,595	NA
Production	3,546	NA	3,546	NA

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$59.70
Natural gas (\$/Mcf)	NA

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$616,283
Natural gas	NA
Total	\$616,283

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$11.18
Commercial consumers	\$10.91
Industrial consumers	\$ 9.44
Electric utilities	\$ 7.14
City Gate	\$ 8.26

### Severance taxes paid (2006, in thous. \$)

--

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	8	257	265
Gas	NA	44	44
Dry	59	110	169
Total	67	411	478

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	20.9	629.6	650.4
Gas	NA	41.2	41.2
Dry	156.5	248.8	405.3
Total	177.3	919.6	1,096.9

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

New-field wildcats drilled	31
Footage (thous. ft.)	68.5

Average rotary rigs active	0
----------------------------	---

Permits	747
---------	-----

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	6th	23rd
Production	15th	30th
Reserves (2006)	15th	NA

Number of operators	843
---------------------	-----

### Number of producing wells\*

(12/31/06)

Crude oil	16,228
Natural gas	43
Total	16,271

### Average production

Crude oil (thous. b/d)	28
NGL (thous. b/d)	0
Natural gas (MMcf/day)	0

### Natural gas marketed production

(MMcf)	170
--------	-----

### Average output per producing well

Crude oil (bbls.)	0
Natural gas (Mcf)	0

### Coalbed methane (YTD MMcf)

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: EIA for production and IHS for wells drilled  
\* World Oil for Number of producing wells.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	4	NA	4
Production	10	NA	10
Net annual change	-6	NA	-6
Proved reserves	89	NA	89

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry 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/ well (\$)	Total Cost (thous. \$)
Oil	190	466,920	123,734
Gas	459	430,422	18,939
Dry	183	439,450	74,267

### Marginal oil wells

Producing marginal wells	5,269
Crude oil production in bbls. (thous.)	5,153
Crude oil production b/d (thous.)	14

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	0
Natural gas production (MMcf)	0

### Federal onshore mineral lease royalties

Oil	\$264,449
Gas	--
Total Royalties	\$264,449

### Horizontal wells data

Horizontal wells drilled	2
--------------------------	---

### Average number of employees

Oil and natural gas extraction	2,610
Refining	4,519
Transportation	5,896
Wholesale	5,714
Retail	26,326
Pipeline construction	1,120
Oilfield machinery	20
Total petroleum industry	46,205

In 1882, drillers found commercial quantities of natural gas at Litchfield in Montgomery County. Total output from the field by 1902 was only 6,576 barrels, but by 1940, Illinois Basin discoveries ranked Illinois 4th among producing states.

# INDIANA



○ Counties with oil and/or gas production

## 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 — 3,401 MMcf	2004

### 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 12/31/06 (excluding service wells)

Oil wells	6,312	36%
Gas wells	1,144	6%
Dry holes	10,274	58%
Total	17,730	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$3,549,726

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	552	NA	552	NA
Production	546	NA	546	NA

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$59.31
Natural gas (\$/Mcf)	\$ 6.01

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$102,666
Natural gas	\$ 17,555
Total	\$120,221

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$13.07
Commercial consumers	\$ 1.55
Industrial consumers	\$ 9.38
Electric utilities	\$ 7.63
City Gate	\$ 8.31

### Severance taxes paid (2006, in thous. \$)

\$1,215



## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	1	37	38
Gas	9	13	22
Dry	35	22	57
Total	45	72	117

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	3.9	62.4	66.3
Gas	14.5	14.5	29.0
Dry	64.7	36.2	100.9
Total	83.0	113.1	196.2

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

New-field wildcats drilled	32
Footage (thous. ft.)	54.2

Average rotary rigs active	0
----------------------------	---

Permits	341
---------	-----

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	22nd	24th
Production	25th	23rd
Reserves (2006)	25th	NA

Number of operators	231
---------------------	-----

### Number of producing wells\*

(12/31/06)

Crude oil	5,044
Natural gas	1,059
Total	6,103

### Average production

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

### Natural gas marketed production

(MMcf)	2,921
--------	-------

### Average output per producing well

Crude oil (bbls.)	0
Natural gas (Mcf)	0

### Coalbed methane (YTD MMcf)

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

### Heavy oil (YTD BBl, in thous.)

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

Source: EIA for production and IHS for wells drilled.

\* World Oil for Number of producing wells.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-3	NA	-3
Production	1	NA	1
Net annual change	-4	NA	-4
Proved reserves	12	NA	12

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry 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/ well (\$)	Total Cost (thous. \$)
Oil	162	282,700	10,743
Gas	464	611,798	13,460
Dry	229	404,725	23,069

### Marginal oil wells

Producing marginal wells	1,061
Crude oil production in bbls. (thous.)	1,085
Crude oil production b/d (thous.)	3

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	0
Natural gas production (MMcf)	0

### Federal onshore mineral lease royalties

Oil	--
Gas	--
Total Royalties	\$479

### Horizontal wells data

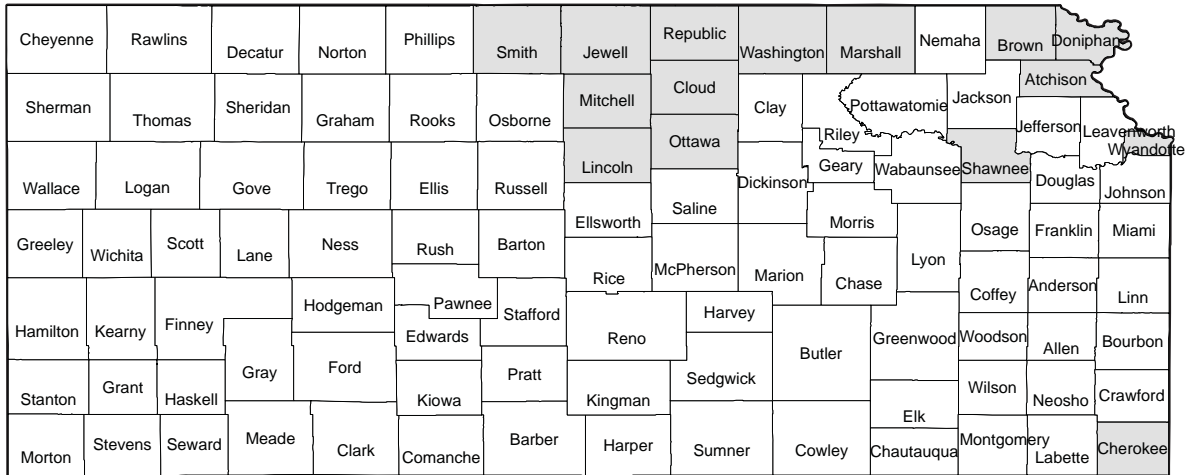
Horizontal wells drilled	1
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### Average number of employees

Oil and natural gas extraction	394
Refining	0
Transportation	3,597
Wholesale	3,497
Retail	23,590
Pipeline construction	1,030
Oilfield machinery	0
Total petroleum industry	32,108

*South of Francesville*, Granville Bates fund natural gas while drilling for oil in 1867. His discovery prompted little excitement at the time, since the commercial potential of natural gas was years in the future.

# KANSAS



○ 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	8,480
Natural gas	28,780

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

1984	11,301
------	--------

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	126,766	47%
Gas wells	32,613	12%
Dry holes	108,641	41%
Total	268,020	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$48,764,204

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	6,418	1,452	7,870	44,549
Production	6,151	1,303	7,454	40,389

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$60.74
Natural gas (\$/Mcf)	\$ 5.61

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$2,165,442
Natural gas	\$2,081,557
Total	\$4,246,999

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$13.19
Commercial consumers	\$12.44
Industrial consumers	\$ 6.83
Electric utilities	\$ 6.32
City Gate	\$ 9.08

### Severance taxes paid (2006, in thous. \$)

\$148,855

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	165	964	1,129
Gas	54	1,161	1,215
Dry	233	584	817
Total	452	2,709	3,161

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	699.7	3,133.9	3,833.6
Gas	197.9	2,231.0	2,428.9
Dry	958.1	2,161.5	3,119.7
Total	1,855.7	7,526.5	9,382.1

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

New-field wildcats drilled	277
Footage (thous. ft.)	1,112.5

Average rotary rigs active	10
----------------------------	----

Permits	5,524
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	4th	9th
Production	11th	9th
Reserves (2006)	13th	11th

Number of operators	2,084
---------------------	-------

### Number of producing wells

(12/31/06)

Crude oil	40,349
Natural gas	19,891
Total	60,240

### Average production

Crude oil (thous. b/d)	98
NGL (thous. b/d)	0
Natural gas (MMcf/day)	1,036

### Natural gas marketed production

(MMcf)	371,044
--------	---------

### Average output per producing well

Crude oil (bbls.)	883
Natural gas (Mcf)	19,005

### Coalbed methane (YTD MMcf)

Oil Wells	6
Gas Wells	2,374
Daily Average (MMcf) / Well	65

### Heavy oil (YTD BBls, in thous.)

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

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	17	4	21
Production	35	19	54
Net annual change	-18	-15	-33
Proved reserves	263	209	472

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	8	-35	-33
Production	9	365	350
Net annual change	-1	-400	-383
Proved reserves	82	4,115	3,931

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	100	340,005	383,866
Gas	140	280,759	341,122
Dry	66	252,030	205,908

### Marginal oil wells

Producing marginal wells	39,543
Crude oil production in bbls. (thous.)	25,250
Crude oil production b/d (thous.)	69

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	17,185
Natural gas production (MMcf)	240,025

### Federal onshore mineral lease royalties

Oil	\$4,083,140
Gas	\$5,697,953
Total Royalties	\$9,850,753

### Horizontal wells data

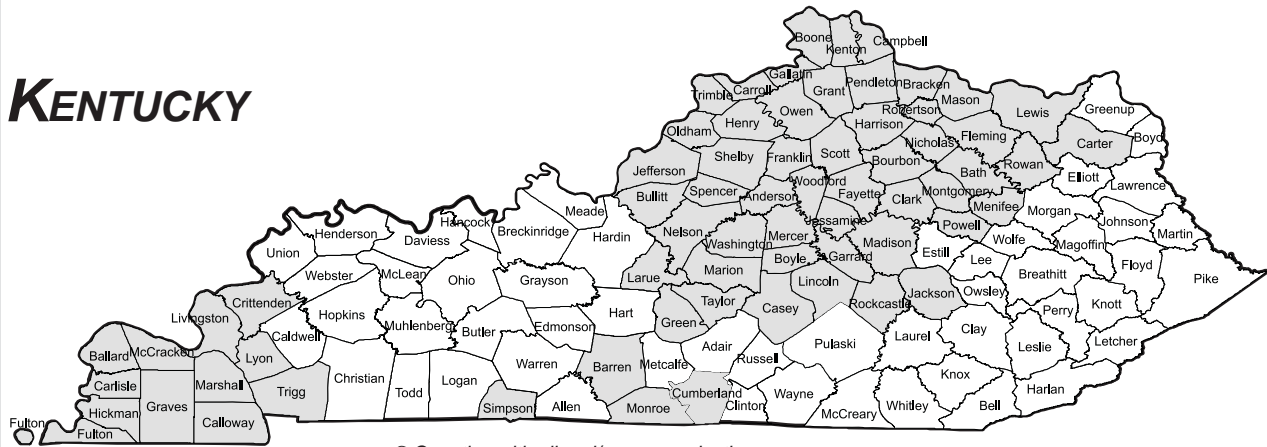
Horizontal wells drilled	24
--------------------------	----

### Average number of employees

Oil and natural gas extraction	7,723
Refining	1,856
Transportation	2,600
Wholesale	2,174
Retail	10,318
Pipeline construction	1,289
Oilfield machinery	61
Total petroleum industry	26,021

*Norman No. 1 came in* on Nov. 28, 1892 — the first oil well west of the Mississippi River to produce a commercial quantity. It was also the first well drilled in the vast Mid-Continent oil field that covers parts of Kansas, Nebraska, Oklahoma, Arkansas, Louisiana and Texas.

# KENTUCKY



○ Counties with oil and/or gas production

## 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	10,608

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

2000	24,591
------	--------

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	18,183	29%
Gas wells	15,674	25%
Dry holes	28,275	45%
Total	62,132	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$)	\$17,555,333
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### Cumulative production & new reserves

as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	769	272	1,041	7,329
Production	758	155	913	5,277

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$58.33
Natural gas (\$/Mcf)	\$ 8.83

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$ 136,492
Natural gas	\$ 841,676
Total	\$ 978,168

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$14.14
Commercial consumers	\$13.22
Industrial consumers	\$ 9.64
Electric utilities	\$ 7.96
City Gate	\$ 9.07

### Severance taxes paid

(2006, in thous. \$)	\$42,586
----------------------	----------

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	23	186	209
Gas	411	495	906
Dry	55	124	179
Total	489	805	1,294

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	26.2	275.8	302.0
Gas	1,378.4	1,662.6	3,041.0
Dry	69.4	168.9	238.3
Total	1,474.0	2,107.3	3,581.3

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

New-field wildcats drilled	239
Footage (thous. ft.)	685.6

Average rotary rigs active	7
----------------------------	---

Permits	2,181
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	12th	12th
Production	22nd	18th
Reserves (2006)	21st	16th

Number of operators	591
---------------------	-----

### Number of producing wells

(12/31/06)

Crude oil*	17,988
Natural gas	14,641
Total*	32,629

### Average production

Crude oil (thous. b/d)	3
NGL (thous. b/d)	0
Natural gas (MMcf/day)	235

### Natural gas marketed production

(MMcf)	95,320
--------	--------

### Average output per producing well

Crude oil (bbls.)	0
Natural gas (Mcf)	6,721

### Coalbed methane (YTD MMcf)

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

### Heavy oil (YTD BBl, in thous.)

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

Source: EIA for production and IHS for wells drilled.

\* World Oil for Number of producing wells.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	4	38	42
Production	2	3	5
Net annual change	2	35	37
Proved reserves	25	105	130

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	6	193	142
Production	0	70	66
Net annual change	6	123	76
Proved reserves	36	2,333	2,227

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	158	228,001	47,652
Gas	107	358,088	324,427
Dry	190	252,788	45,249

### Marginal oil wells

Producing marginal wells	994
Crude oil production in bbls. (thous.)	671
Crude oil production b/d (thous.)	2

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	12,617
Natural gas production (MMcf)	78,304

### Federal onshore mineral lease royalties

Oil	\$ 7,333
Gas	\$ 259,146
Total Royalties	\$ 2,070,084

### Horizontal wells data

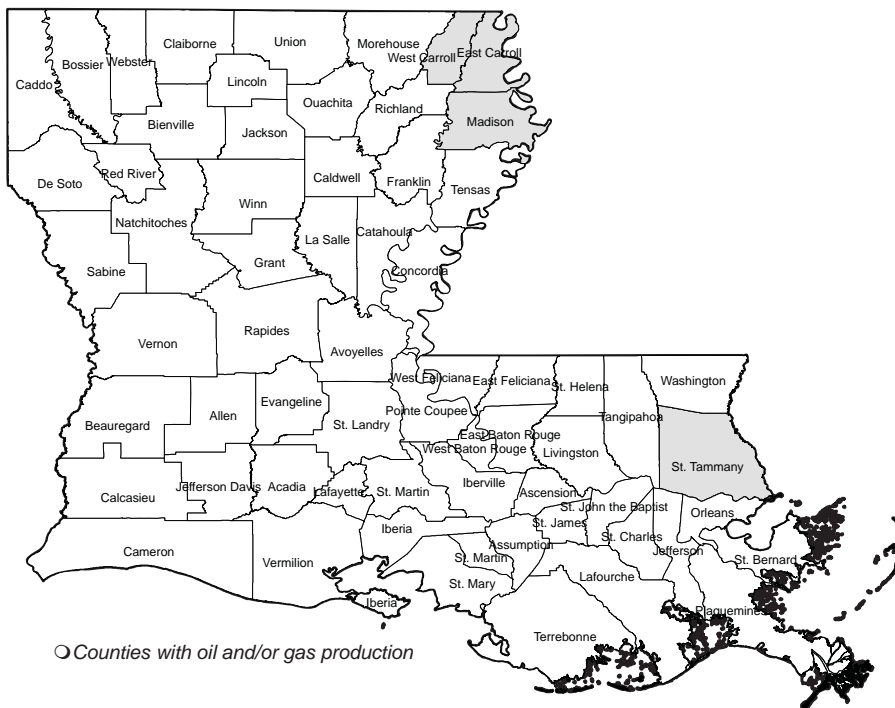
Horizontal wells drilled	2
--------------------------	---

### Average number of employees

Oil and natural gas extraction	2,299
Refining	1,177
Transportation	1,782
Wholesale	3,107
Retail	19,134
Pipeline construction	706
Oilfield machinery	0
Total petroleum industry	28,205

Boring for salt water near Burkesville in March 1829, drillers hit an oil gusher. Oil from this well was sold as patent medicine for decades before kerosene distillation created the petroleum industry.

# LOUISIANA



○ Counties with oil and/or gas production

## Background Information

### Counties

Number of counties	64
With oil and/or gas production	60

### 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	22,235

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

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

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	99,771	40%
Gas wells	67,336	27%
Dry holes	84,817	33%
Total	251,924	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$260,395,812

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	27,738	6,305	34,043	267,301
Production	18,654	4,555	23,209	146,353

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$64.23
Natural gas (\$/Mcf)	\$ 6.93

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$ 4,745,055
Natural gas	\$ 9,432,555
Total	\$ 14,177,610

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$ 14.67
Commercial consumers	\$ 11.84
Industrial consumers	\$ 7.43
Electric utilities	\$ 7.66
City Gate	\$ 7.67

### Severance taxes paid (2006, in thous. \$)

\$ 885,402



## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	2	310	312
Gas	23	979	1,002
Dry	39	280	319
Total	64	1,569	1,633

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	11.8	1,534.5	1,546.3
Gas	234.3	9,861.1	10,095.7
Dry	326.8	2,415.8	2,742.6
Total	573.2	13,811.4	14,384.5

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

New-field wildcats drilled	51
Footage (thous. ft.)	479.5

Average rotary rigs active	188
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Permits	2,331
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	5th	4th
Production	5th	6th
Reserves (2006)	8th	7th

Number of operators	1,019
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### Number of producing wells

(12/31/06)

Crude oil	17,999
Natural gas	10,679
Total	28,678

### Average production

Crude oil (thous. b/d)	135
NGL (thous. b/d)	67.8
Natural gas (MMcf/day)	3,535

### Natural gas marketed production

(MMcf) 1,361,119

### Average output per producing well

Crude oil (bbls.)	2,747
Natural gas (Mcf)	120,812

### Coalbed methane (YTD MMcf)

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

### Heavy oil (YTD BBls, in thous.)

Wells	11,199
Av. Bbls per day	62.1
Av. Bbls per well/d	2,023

Source: EIA for production and IHS for wells drilled.

## 2005 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	49	38	87
Production	53	50	103
Net annual change	-4	-12	-16
Proved reserves	428	280	708

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	37	1,340	1,336
Production	64	1,282	1,309
Net annual change	-27	58	27
Proved reserves	561	10,149	10,474

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	516	2,555,325	797,261
Gas	473	4,765,617	4,775,148
Dry	512	4,401,509	1,404,081

### Marginal oil wells

Producing marginal wells	15,671
Crude oil production in bbls. (thous.)	9,494
Crude oil production b/d (thous.)	26

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	4,851
Natural gas production (MMcf)	47,268

### Federal onshore mineral lease royalties

Oil	\$ 4,300,928
Gas	\$41,990,018
Total Royalties	\$46,767,664

### Horizontal wells data

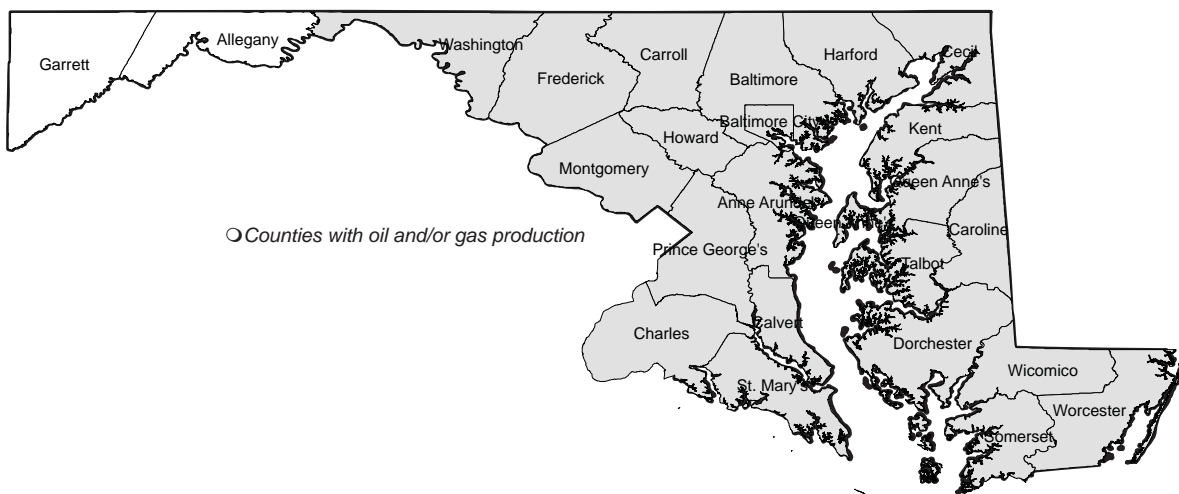
Horizontal wells drilled	27
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### Average number of employees

Oil and natural gas extraction	45,031
Refining	10,152
Transportation	3,961
Wholesale	1,461
Retail	17,832
Pipeline construction	14,236
Oilfield machinery	0
Total petroleum industry	92,673

In September 1901, Louisiana's oil industry began when the Heywood well came in near the communities of Evangeline and Jennings.

# MARYLAND



## Background Information

### Counties

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

### First year of production

Crude oil	--
Natural gas	1950

### Year and amount of peak production

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

### Deepest producing well (ft.)

Crude oil	10,376
Natural gas	8,658

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

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

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	NA	NA
Gas wells	71	49%
Dry holes	75	51%
Total	146	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

NA

### Cumulative production & new reserves as of 12/31/06

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

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	NA
Natural gas (\$/Mcf)	\$7.63

### Wellhead value of production (2006, in thous. \$)

Crude oil	NA
Natural gas	\$ 366
Total	\$ 366

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$16.36
Commercial consumers	\$13.28
Industrial consumers	\$12.86
Electric utilities	\$ 7.80
City Gate	\$10.62

### Severance taxes paid (2006, in thous. \$)

\$4

## 2006 Industry Statistics

### Number of wells drilled

	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

### New-field wildcats drilled

Footage (thous. ft.)	NA
----------------------	----

Average rotary rigs active	0
----------------------------	---

Permits	1
---------	---

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	NA	29th
Production	NA	31st
Reserves (2006)	NA	NA

Number of operators	--
---------------------	----

### Number of producing wells

(12/31/06)

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

### Natural gas marketed production

(MMcf)

48

### 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	NA
Av. Bbls per day	NA
Av. Bbls per well/d	NA

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

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

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry 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/ well (\$)	Total Cost (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 12/31/06

Producing marginal wells	0
Natural gas production (MMcf)	0

### Federal onshore mineral lease royalties

Oil	--
Gas	--
Total Royalties	\$7,656

### Horizontal wells data

Horizontal wells drilled	NA
--------------------------	----

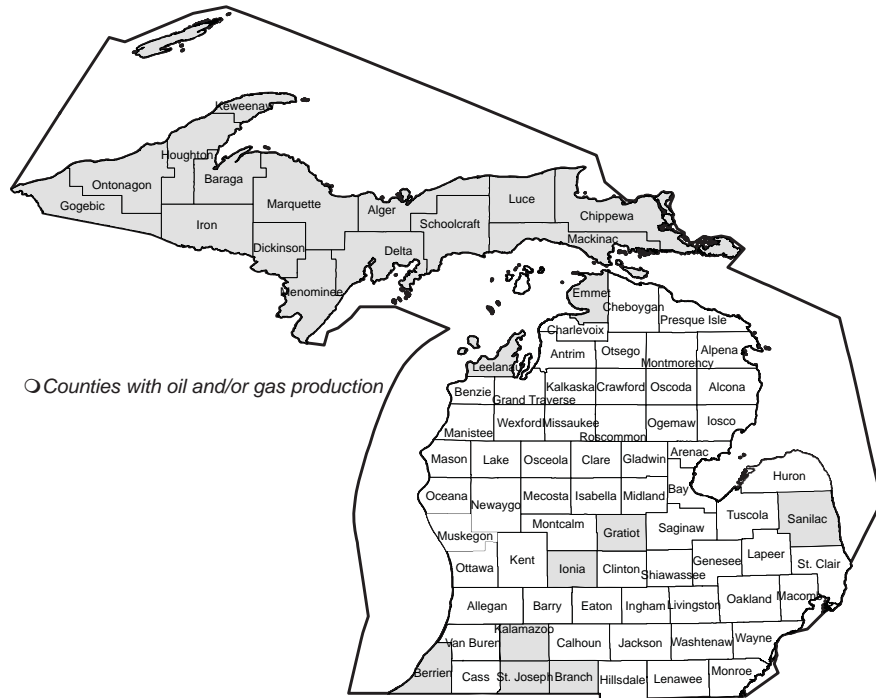
### Average number of employees

Oil and natural gas extraction	763
Refining	0
Transportation	737
Wholesale	3,435
Retail	10,545
Pipeline construction	772
Oilfield machinery	0
Total petroleum industry	16,252

For more information please contact:

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# MICHIGAN



○ Counties with oil and/or gas production

## Background Information

### Counties

Number of counties	83
With oil and/or gas production	57

### 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.)

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

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	15,243	28%
Gas wells	13,532	24%
Dry holes	26,630	48%
Total	55,405	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$14,798,985

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,289	292	1,581	9,412
Production	1,237	235	1,472	5,560

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$60.89
Natural gas (\$/Mcf)	NA

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$310,113
Natural gas	NA
Total	\$310,113

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$11.97
Commercial consumers	\$10.75
Industrial consumers	\$ 9.90
Electric utilities	\$ 6.01
City Gate	\$ 8.34

### Severance taxes paid (2006, in thous. \$)

\$88,143

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	3	22	25
Gas	3	450	453
Dry	28	52	80
Total	34	524	558

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	18.9	82.0	100.9
Gas	15.3	655.2	670.5
Dry	125.4	140.7	266.1
Total	159.6	877.9	1,037.5

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

New-field wildcats drilled	28
Footage (thous. ft.)	124.4

Average rotary rigs active	2
----------------------------	---

Permits	990
---------	-----

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	13th	13th
Production	19th	10th
Reserves (2006)	16th	13th

Number of operators	174
---------------------	-----

### Number of producing wells

(12/31/06)

Crude oil	3,847
Natural gas	9,444
Total	13,291

### Average production

Crude oil (thous. b/d)	16
NGL (thous. b/d)	2.1
Natural gas (MMcf/day)	436

### Natural gas marketed production

(MMcf)	263,009
--------	---------

### Average output per producing well

Crude oil (bbls.)	1,478
Natural gas (Mcf)	16,867

### Coalbed methane (YTD MMcf)

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

### Heavy oil (YTD BBl, in thous.)

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

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	6	6	12
Production	5	3	8
Net annual change	1	3	4
Proved reserves	63	42	105

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	57	300	352
Production	18	183	197
Net annual change	39	117	155
Proved reserves	192	2,925	3,065

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	518	2,088,335	52,208
Gas	523	773,803	350,533
Dry	336	1,117,661	89,413

### Marginal oil wells

Producing marginal wells	3,617
Crude oil production in bbls. (thous.)	3,297
Crude oil production b/d (thous.)	9

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	1,122
Natural gas production (MMcf)	15,088

### Federal onshore mineral lease royalties

Oil	\$ 297,144
Gas	\$2,451,832
Total Royalties	\$2,804,281

### Horizontal wells data

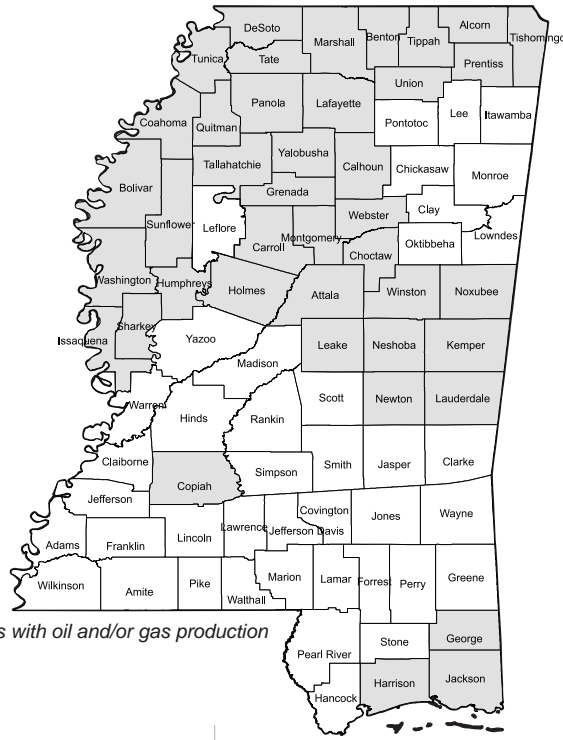
Horizontal wells drilled	110
--------------------------	-----

### Average number of employees

Oil and natural gas extraction	2,550
Refining	784
Transportation	4,255
Wholesale	3,146
Retail	25,487
Pipeline construction	1,283
Oilfield machinery	0
Total petroleum industry	37,505

In 1860, Michigan State Geologist Alexander Winchell reported that oil and natural gas deposits lay under Michigan's surface. First commercial production began in 1886 near Port Huron. In 1928, Mt. Pleasant's oilfield made it the "Oil Capital of Michigan."

# 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 gas — 221,331 MMcf	1988

### Deepest producing well (ft.)

Crude oil	21,533
Natural gas	23,894

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

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

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	10,586	33%
Gas wells	3,924	12%
Dry holes	17,834	55%
Total	32,344	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$20,943,376

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	2,701	130	2,831	9,711
Production	2,540	149	2,689	8,963

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$59.35
Natural gas (\$/Mcf)	\$ 6.84

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$1,030,079
Natural gas	\$ 414,032
Total	\$ 1,444,111

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$14.65
Commercial consumers	\$12.25
Industrial consumers	\$ 9.27
Electric utilities	\$ 7.20
City Gate	\$ 9.13

### Severance taxes paid (2006, in thous. \$)

\$6,809



## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	2	46	48
Gas	15	162	177
Dry	23	45	68
Total	40	253	293

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	22.8	333.8	356.6
Gas	55.4	1,263.1	1,318.4
Dry	179.4	279.9	459.3
Total	257.6	1,876.7	2,134.3

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

New-field wildcats drilled	30
Footage (thous. ft.)	176.3

Average rotary rigs active	10
----------------------------	----

Permits	577
---------	-----

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	19th	21st
Production	14th	20th
Reserves (2006)	14th	21st

Number of operators	211
---------------------	-----

### Number of producing wells

(12/31/06)

Crude oil	1,788
Natural gas	1,574
Total	3,362

### Average production

Crude oil (thous. b/d)	44
NGL (thous. b/d)	3.8
Natural gas (MMcf/day)	565

### Natural gas marketed production

(MMcf) 60,531

### Average output per producing well

Crude oil (bbls.)	9,006
Natural gas (Mcf)	131,048

### Coalbed methane (YTD MMcf)

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

### Heavy oil (YTD BBls, in thous.)

Wells	242
Av. Bbls per day	5.1
Av. Bbls per well/d	7,616

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	12	2	14
Production	15	1	16
Net annual change	-3	1	-2
Proved reserves	186	8	194

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	4	138	141
Production	3	81	83
Net annual change	1	57	58
Proved reserves	21	795	813

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	384	2,851,759	136,884
Gas	438	3,263,258	577,597
Dry	410	2,771,576	188,467

### Marginal oil wells

Producing marginal wells	964
Crude oil production in bbls. (thous.)	2,202
Crude oil production b/d (thous.)	6

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	1,063
Natural gas production (MMcf)	14,679

### Federal onshore mineral lease royalties

Oil	\$2,156,274
Gas	\$ 502,252
Total Royalties	\$4,173,855

### Horizontal wells data

Horizontal wells drilled	7
--------------------------	---

### Average number of employees

Oil and natural gas extraction	4,982
Refining	1,794
Transportation	1,475
Wholesale	2,348
Retail	15,600
Pipeline construction	871
Oilfield machinery	62
Total petroleum industry	27,132

Near Tinsley and Yazoo City,  
Union Producing Co. brought in the No. 1  
Woodruff well at 5,500 feet in September  
of 1939. Within 15-months, there were 133  
producing wells. The Tinsley field has yielded  
230 million barrels of oil.

# MISSOURI



## 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	3,680
Natural gas	765

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

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

### Cumulative number of total wells drilled as of 12/31/06 (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 12/31/06 (thous. \$)

\$105,046

### Cumulative production & new reserves as of 12/31/06

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

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$57.34
Natural gas (\$/Mcf)	NA

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$4,989
Natural gas	NA
Total	\$4,989

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$14.25
Commercial consumers	\$12.94
Industrial consumers	\$12.40
Electric utilities	NA
City Gate	\$ 8.53

### Severance taxes paid (2006, in thous. \$)

--

## 2006 Industry Statistics

### Number of wells drilled

	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: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.)

Average rotary rigs active

Permits

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	27th	30th
Production	30th	NA
Reserves (2006)	NA	NA

Number of operators

### Number of producing wells

(12/31/06)

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

### 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.)

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

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

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

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry 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/ well (\$)	Total Cost (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 12/31/06

Producing marginal wells	0
Natural gas production (MMcf)	0

### Federal onshore mineral lease royalties

Oil	--
Gas	--
Total Royalties	\$8,515,935

### Horizontal wells data

Horizontal wells drilled

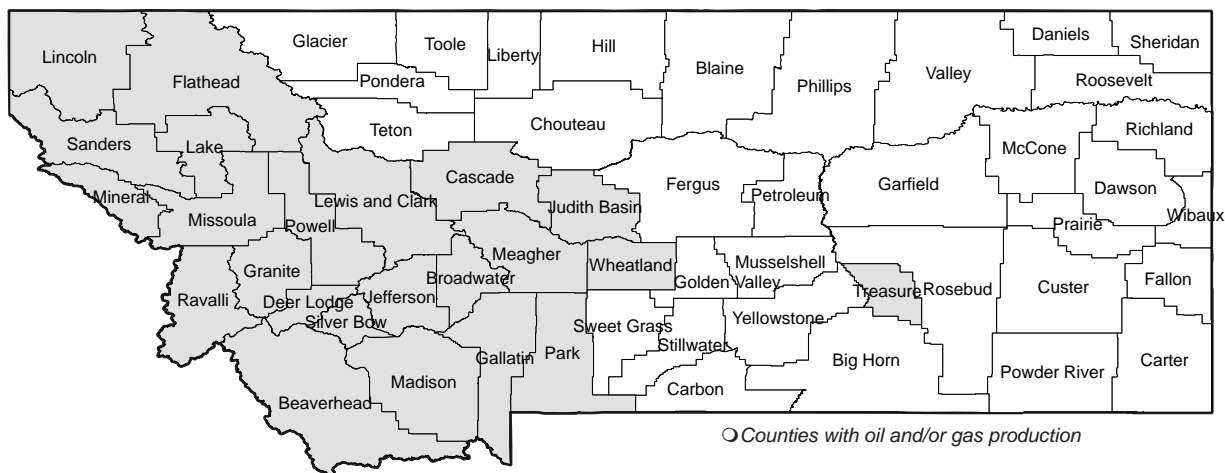
NA

### Average number of employees

Oil and natural gas extraction	109
Refining	446
Transportation	3,469
Wholesale	4,290
Retail	25,237
Pipeline construction	475
Oilfield machinery	0
Total petroleum industry	34,026

Oil and natural gas were discovered in Missouri soon after the Civil War. By the early 1930s, more than 2,500 wells had been drilled.

# 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 gas — 107,918 MMcf	2005

### Deepest producing well (ft.)

Crude oil	22,625
Natural gas	20,250

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

2006	22,037
------	--------

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	14,546	35%
Gas wells	9,704	23%
Dry holes	17,281	42%
Total	41,531	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$19,699,705

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	2,020	54	2,074	4,463
Production	1,613	45	1,658	3,342

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$ 56.69
Natural gas (\$/Mcf)	\$ 5.53

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$2,055,693
Natural gas	\$ 624,033
Total	\$2,679,726

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$11.26
Commercial consumers	\$11.12
Industrial consumers	\$11.63
Electric utilities	NA
City Gate	\$ 7.25

### Severance taxes paid (2006, in thous. \$)

\$204,129

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	166	206	372
Gas	43	615	658
Dry	46	42	88
Total	255	863	1,118

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	1,786.8	2,246.3	4,033.1
Gas	83.6	794.1	877.6
Dry	204.6	94.3	298.8
Total	2,075.0	3,134.6	5,209.6

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

New-field wildcats drilled	138
Footage (thous. ft.)	1,065.4

Average rotary rigs active	22
----------------------------	----

Permits	1,291
---------	-------

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	14th	14th
Production	10th	17th
Reserves (2006)	9th	19th

Number of operators	231
---------------------	-----

### Number of producing wells

(12/31/06)

Crude oil	4,272
Natural gas	6,200
Total	10,472

### Average production

Crude oil (thous. b/d)	99
NGL (thous. b/d)	0.5
Natural gas (MMcf/day)	255

### Natural gas marketed production

(MMcf) 112,845

### Average output per producing well

Crude oil (bbls.)	8,433
Natural gas (Mcf)	15,032

### Coalbed methane (YTD MMcf)

Oil Wells	2
Gas Wells	841
Daily Average (MMcf) / Well	32

### Heavy oil (YTD BBls, in thous.)

Wells	82
Av. Bbls per day	0.5
Av. Bbls per well/d	2,388

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	28	2	30
Production	36	1	37
Net annual change	-8	1	-7
Proved reserves	419	10	429

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	53	137	188
Production	19	100	117
Net annual change	34	37	71
Proved reserves	195	874	1,057

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	360	3,897,889	1,450,015
Gas	331	442,153	290,937
Dry	368	1,250,303	110,027

### Marginal oil wells

Producing marginal wells	2,938
Crude oil production in bbls. (thous.)	3,519
Crude oil production b/d (thous.)	10

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	5,276
Natural gas production (MMcf)	43,617

### Federal onshore mineral lease royalties

Oil	\$27,874,390
Gas	\$24,876,809
Total Royalties	\$94,440,805

### Horizontal wells data

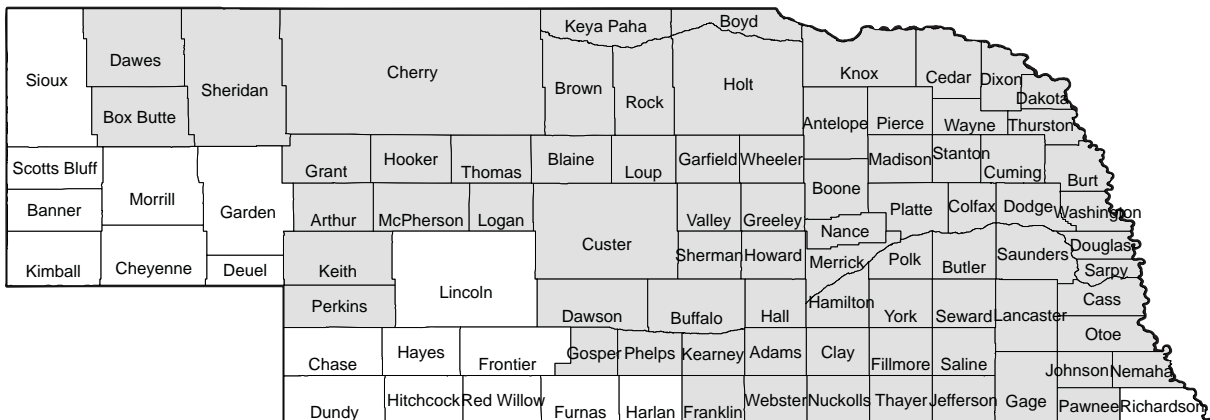
Horizontal wells drilled	342
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### Average number of employees

Oil and natural gas extraction	2,711
Refining	0
Transportation	720
Wholesale	996
Retail	5,095
Pipeline construction	385
Oilfield machinery	0
Total petroleum industry	9,907

Montana's first substantial oil production began in 1915 from wells drilled in the northern Elk Basin, southeast of Belfry. Over the next 40 years, more oil fields were developed in the Williston Basin, Sweetgrass Arch, Big Snowy Uplift, Powder River Basin, and northern extensions of the Big Horn Basin.

# NEBRASKA



○ Counties with oil and/or gas production

## Background Information

### Counties

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

### First year of production

Crude oil	1939
Natural gas	1950

### Year and amount of peak production

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

### Deepest producing well (ft.)

Crude oil	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 12/31/06 (excluding service wells)

Oil wells	6,055	30%
Gas wells	342	2%
Dry holes	13,388	68%
Total	19,785	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$)	\$4,370,062
----------------------------	-------------

### Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	514	NA	514	NA
Production	504	NA	504	NA

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$57.77
Natural gas (\$/Mcf)	NA

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$133,622
Natural gas	NA
Total	\$133,622

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$11.30
Commercial consumers	\$ 9.62
Industrial consumers	\$ 8.37
Electric utilities	\$ 7.31
City Gate	\$ 8.27

### Severance taxes paid

(2006, in thous. \$)	\$2,796
----------------------	---------



## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	6	19	25
Gas	3	1	4
Dry	22	14	36
Total	31	34	65

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	22.6	79.6	102.3
Gas	12.9	5.6	18.5
Dry	88.4	71.5	159.9
Total	123.9	156.8	280.6

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

### New-field wildcats drilled

Footage (thous. ft.)

Average rotary rigs active

Permits

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	23rd	25th
Production	23rd	26th
Reserves (2006)	24th	NA

Number of operators

### Number of producing wells

(12/31/06)

Crude oil	1,229
Natural gas	117
Total	1,346

### Average production

Crude oil (thous. b/d)	6
NGL (thous. b/d)	0
Natural gas (MMcf/day)	2

### Natural gas marketed production

(MMcf)

### Average output per producing well

Crude oil (bbls.)	1,869
Natural gas (Mcf)	7,671

### Coalbed methane (YTD MMcf)

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: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	0	NA	0
Production	2	NA	2
Net annual change	-2	NA	-2
Proved reserves	14	NA	14

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry 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/ well (\$)	Total Cost (thous. \$)
Oil	140	572,814	14,320
Gas	133	614,662	2,459
Dry	131	579,814	20,873

### Marginal oil wells

Producing marginal wells	1,181
Crude oil production in bbls. (thous.)	1,676
Crude oil production b/d (thous.)	5

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	103
Natural gas production (MMcf)	774

### Federal onshore mineral lease royalties

Oil	\$230,422
Gas	--
Total Royalties	\$270,774

### Horizontal wells data

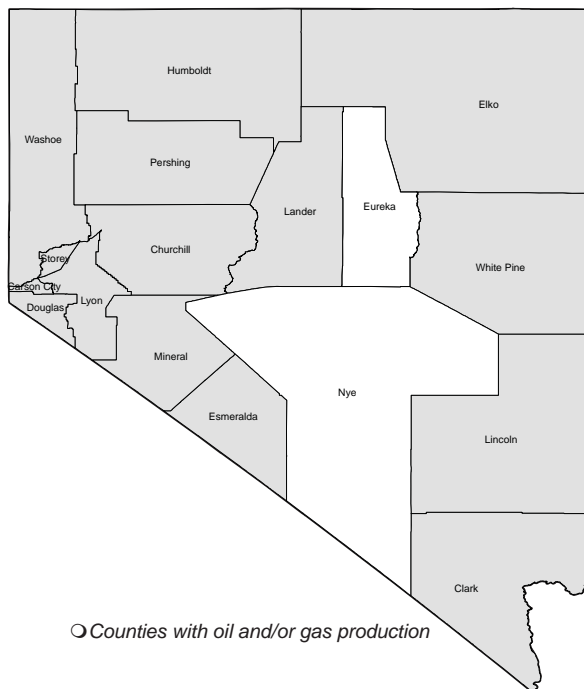
Horizontal wells drilled

### Average number of employees

Oil and natural gas extraction	236
Refining	0
Transportation	1,744
Wholesale	1,251
Retail	8,838
Pipeline construction	132
Oilfield machinery	0
Total petroleum industry	12,201

The Nebraska legislature awarded a \$15,000 bonus to the Pawnee Royalty Co. for the Bucholz Well No. 1, the first oil well in the state to produce at least 50 barrels daily for 60 consecutive days. The well began producing on May 29, 1940.

# NEVADA



## Background Information

### Counties

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

### First year of production

Crude oil	1954
Natural gas	NA

### Year and amount of peak production

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

### Deepest producing well (ft.)

Crude oil	8,050
Natural gas	NA

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

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

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	121	14%
Gas wells	2	0%
Dry holes	774	86%
Total	897	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$)	\$847,349
----------------------------	-----------

### Cumulative production & new reserves

as of 12/31/06

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

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$58.30
Natural gas (\$/Mcf)	NA

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$24,836
Natural gas	NA
Total	\$24,836

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$14.31
Commercial consumers	\$12.12
Industrial consumers	\$12.00
Electric utilities	\$ 6.79
City Gate	\$ 8.64

### Severance taxes paid

(2006, in thous. \$)	\$42
----------------------	------

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	1	NA	1
Total	1	NA	1

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	7.4	NA	7.4
Total	7.4	NA	7.4

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

### New-field wildcats drilled

	1
--	---

Footage (thous. ft.)	7.4
----------------------	-----

Average rotary rigs active	1
----------------------------	---

Permits	7
---------	---

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	34th	35th
Production	27th	32nd
Reserves (2006)	NA	NA

Number of operators	7
---------------------	---

### Number of producing wells

(12/31/06)

Crude oil	68
Natural gas	0
Total	68

### Average production

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

### Natural gas marketed production

(MMcf)	5
--------	---

### Average output per producing well

Crude oil (bbls.)	6,261
Natural gas (Mcf)	0

### Coalbed methane (YTD MMcf)

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: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

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

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry 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/ well (\$)	Total Cost (thous. \$)
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	146	1,079,956	1,080

### Marginal oil wells

Producing marginal wells	45
Crude oil production in bbls. (thous.)	117
Crude oil production b/d (thous.)	0

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	0
Natural gas production (MMcf)	0

### Federal onshore mineral lease royalties

Oil	\$ 2,734,895
Gas	--
Total Royalties	\$15,542,861

### Horizontal wells data

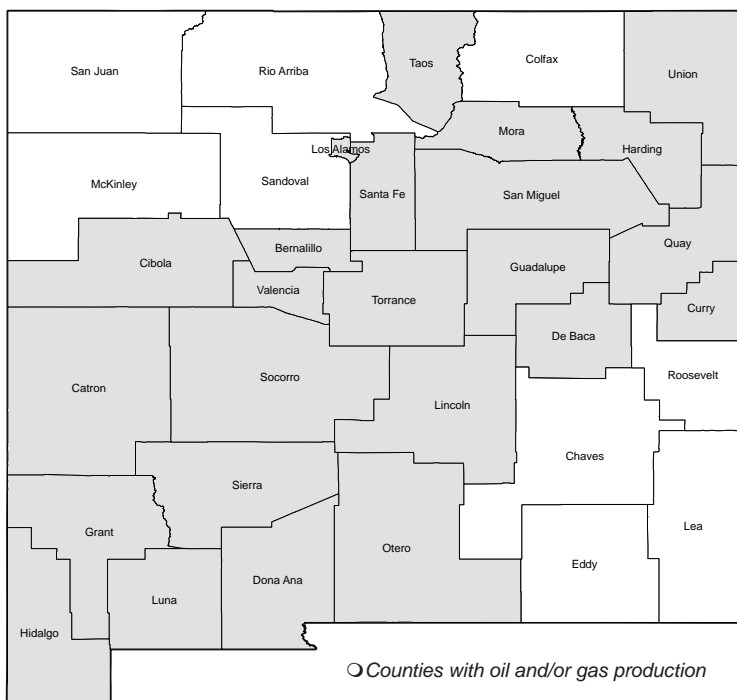
Horizontal wells drilled	0
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### Average number of employees

Oil and natural gas extraction	130
Refining	0
Transportation	20
Wholesale	761
Retail	8,619
Pipeline construction	743
Oilfield machinery	0
Total petroleum industry	10,273

On Feb. 12, 1954, Shell Oil Co. drilled the Eagle Springs No.1 — the discovery well for the Railroad Valley field and the state's first producer.

# NEW MEXICO



## Background Information

### Counties

Number of counties	33
With oil and/or gas production	9

### First year of production

Crude oil	1911
Natural gas	1924

### Year and amount of peak production

Crude oil — 129,227 thous. bbls.	1969
Natural gas — 1,689,125 MMcf	2001

### Deepest producing well (ft.)

Crude oil	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 12/31/06 (excluding service wells)

Oil wells	49,229	47%
Gas wells	38,115	36%
Dry holes	18,370	17%
Total	105,789	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$57,682,580

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	7,123	3,268	10,391	81,824
Production	6,486	2,302	8,788	63,887

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$61.74
Natural gas (\$/Mcf)	\$ 6.18

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$ 3,693,163
Natural gas	\$ 9,944,998
Total	\$13,638,161

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$12.64
Commercial consumers	\$10.65
Industrial consumers	\$ 8.92
Electric utilities	NA
City Gate	\$ 6.82

### Severance taxes paid (2006, in thous. \$)

\$ 1,169,271

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	25	599	624
Gas	53	1,250	1,303
Dry	36	65	101
Total	114	1,914	2,028

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	108.3	3,632.4	3,740.7
Gas	384.0	7,512.2	7,896.2
Dry	132.9	308.4	441.3
Total	625.1	11,453.0	12,078.1

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

New-field wildcats drilled	65
Footage (thous. ft.)	287.4

Average rotary rigs active	94
----------------------------	----

Permits	3,195
---------	-------

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	7th	7th
Production	7th	5th
Reserves (2006)	6th	3rd

Number of operators	568
---------------------	-----

### Number of producing wells

(12/31/06)

Crude oil	21,219
Natural gas	31,246
Total	52,465

### Average production

Crude oil (thous. b/d)	147
NGL (thous. b/d)	18
Natural gas (MMcf/day)	3,705

### Natural gas marketed production

(MMcf)	1,609,223
--------	-----------

### Average output per producing well

Crude oil (bbls.)	2,529
Natural gas (Mcf)	43,277

### Coalbed methane (YTD MMcf)

Oil Wells	0
Gas Wells	4,988
Daily Average (MMcf) / Well	1,402

### Heavy oil (YTD BBls, in thous.)

Wells	34
Av. Bbls per day	0.1
Av. Bbls per well/d	537

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	71	99	170
Production	56	78	134
Net annual change	15	21	36
Proved reserves	705	861	1,566

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	304	981	1,159
Production	193	1,332	1,426
Net annual change	111	-351	-267
Proved reserves	1,772	17,332	17,934

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	217	1,302,743	812,912
Gas	202	1,222,989	1,593,555
Dry	327	1,430,211	144,451

### Marginal oil wells

Producing marginal wells	17,759
Crude oil production in bbls. (thous.)	22,253
Crude oil production b/d (thous.)	61

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	20,461
Natural gas production in MMcf (thous.)	261,711

### Federal onshore mineral lease royalties

Oil	\$ 287,445,113
Gas	\$ 810,013,305
Total Royalties	\$ 1,268,142,550

### Horizontal wells data

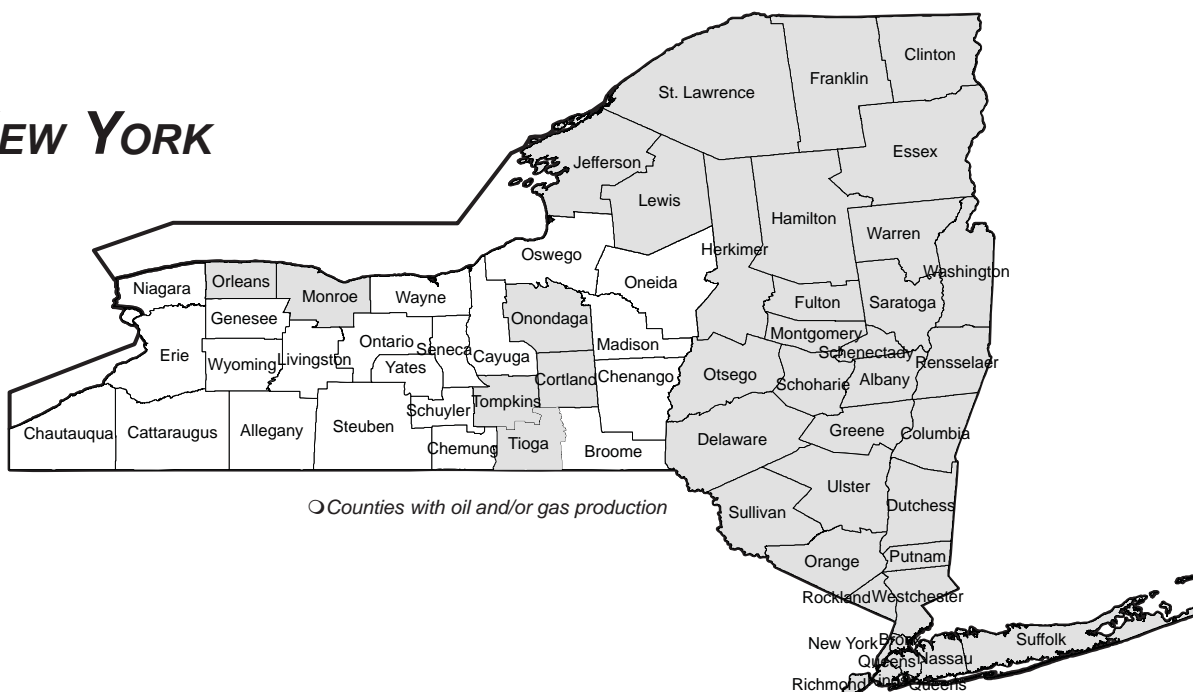
Horizontal wells drilled	148
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### Average number of employees

Oil and natural gas extraction	14,402
Refining	716
Transportation	1,626
Wholesale	1,607
Retail	7,814
Pipeline construction	214
Oilfield machinery	0
Total petroleum industry	26,379

Twenty miles west of Farmington,  
Midwest Refining brought in New Mexico's  
first commercially successful oil well in  
September 1922.

# NEW YORK



## 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	11,193
Natural gas	11,329

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

2002	15,000
------	--------

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	2,614	20%
Gas wells	7,910	61%
Dry holes	2,453	19%
Total	12,977	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$1,150,450

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	NA	NA	NA	1,556
Production	NA	NA	NA	1,207

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$63.51
Natural gas (\$/Mcf)	\$ 7.13

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$ 20,260
Natural gas	\$399,137
Total	\$419,397

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$15.35
Commercial consumers	\$11.91
Industrial consumers	\$10.56
Electric utilities	\$ 7.75
City Gate	\$ 9.22

### Severance taxes paid (2006, in thous. \$)

--

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	1	107	108
Gas	12	119	131
Dry	2	1	3
Total	15	227	242

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	2.8	184.3	187.1
Gas	65.9	375.9	441.7
Dry	18.0	3.7	21.67
Total	86.6	563.8	650.5

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

New-field wildcats drilled	13
Footage (thous. ft.)	69.2

Average rotary rigs active	6
----------------------------	---

Permits	578
---------	-----

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	15th	15th
Production	28th	21st
Reserves (2006)	NA	23rd

Number of operators	427
---------------------	-----

### Number of producing wells

(12/31/06)

Crude oil	2,395
Natural gas	6,764
Total	9,159

### Average production

Crude oil (thous. b/d)	1
NGL (thous. b/d)	0.3
Natural gas (MMcf/day)	109

### Natural gas marketed production

(MMcf)

55,980

### Average output per producing well

Crude oil (bbls.)	79
Natural gas (Mcf)	5,875

### Coalbed methane (YTD MMcf)

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

### Heavy oil (YTD BBIs, in thous.)

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

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

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

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-1	64	64
Production	0	49	50
Net annual change	-1	15	14
Proved reserves	2	361	363

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	128	222,446	24,024
Gas	147	496,064	64,984
Dry	283	2,046,736	6,140

### Marginal oil wells

Producing marginal wells	2,073
Crude oil production in bbls. (thous.)	188
Crude oil production b/d (thous.)	1

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	6,512
Natural gas production (MMcf)	10,828

### Federal onshore mineral lease royalties

Oil	--
Gas	\$22,688
Total Royalties	\$22,688

### Horizontal wells data

Horizontal wells drilled	0
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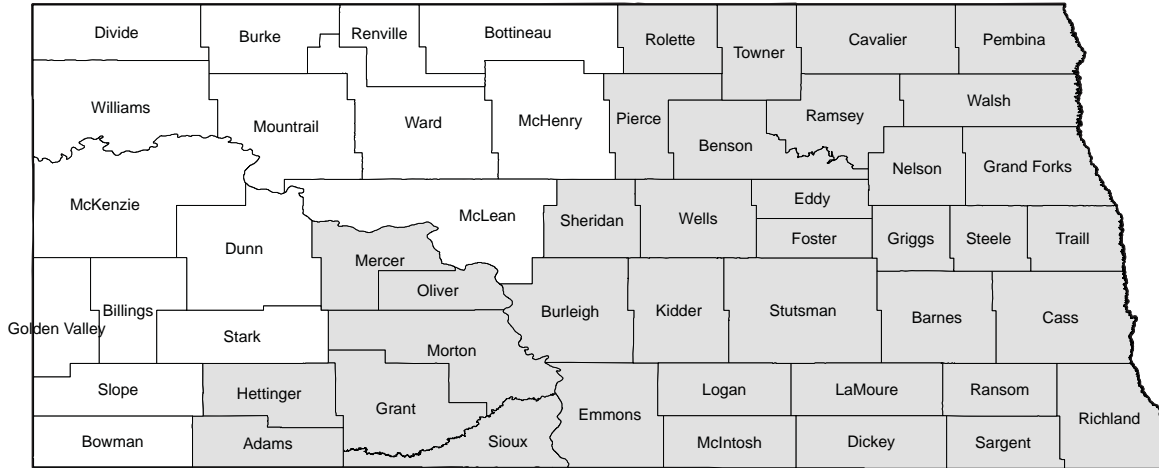
### Average number of employees

Oil and natural gas extraction	930
Refining	466
Transportation	3,963
Wholesale	13,762
Retail	28,314
Pipeline construction	1,398
Oilfield machinery	0
Total petroleum industry	48,833

*In November 1865, Job Moses and his Hall Farm Petroleum Co. found oil in Carrollton Township, Cattaraugus County. The Moses No. 1 well was drilled to 1,165 feet. Initial production was seven barrels per day, but the well was on the edge of what would become the giant Bradford oilfield.*



# NORTH DAKOTA



○ 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.)

Crude oil (25,828 MD horizontal)	16,510
Natural gas (19,579 MD horizontal)	15,300

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

2006 (18,262 MD horizontal-2000)	20,362
----------------------------------	--------

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	9,522	58%
Gas wells	351	2%
Dry holes	6,633	40%
Total	16,506	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$)	\$27,438,844
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### Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,936	251	2,187	2,771
Production	1,535	174	1,709	2,308

## Value of Oil and Gas

### Average wellhead price

(2006)

Crude oil (\$/bbl.)	\$ 56.69
Natural gas (\$/Mcf)	\$ 6.52

### Wellhead value of production

(2006, in thous. \$)

Crude oil	\$2,262,555
Natural gas	\$ 360,380
Total	\$2,622,935

### Average natural gas price

(2006, \$/Mcf)

Residential consumers	\$10.80
Commercial consumers	\$ 9.68
Industrial consumers	\$ 6.54
Electric utilities	\$10.93
City Gate	\$ 7.82

### Severance taxes paid

(2006, in thous. \$)

\$ 166,147
------------

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	137	243	380
Gas	5	64	69
Dry	23	15	38
Total	165	322	487

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	1,517.2	2,193.7	3,710.9
Gas	47.9	144.8	192.7
Dry	250.1	134.8	384.9
Total	1,815.1	2,473.3	4,288.5

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

New-field wildcats drilled	104
Footage (thous. ft.)	1,128.1

Average rotary rigs active	32
----------------------------	----

Permits	635
---------	-----

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	20th	26th
Production	9th	22nd
Reserves (2006)	10th	22nd

Number of operators	152
---------------------	-----

### Number of producing wells

(12/31/06)

Crude oil	3,512
Natural gas	371
Total	3,883

### Average production

Crude oil (thous. b/d)	101
NGL (thous. b/d)	7.7
Natural gas (MMcf/day)	47

### Natural gas marketed production

(MMcf)

55,273

### Average output per producing well

Crude oil (bbls.)	10,468
Natural gas (Mcf)	46,404

### Coalbed methane (YTD MMcf)

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: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	32	12	44
Production	38	6	44
Net annual change	-6	6	0
Proved reserves	412	55	467

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	54	35	78
Production	40	18	52
Net annual change	14	17	26
Proved reserves	357	182	479

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	352	3,442,221	1,308,044
Gas	439	1,227,356	84,688
Dry	280	2,836,129	107,773

### Marginal oil wells

Producing marginal wells	2,146
Crude oil production in bbls. (thous.)	4,710
Crude oil production b/d (thous.)	13

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	244
Natural gas production (MMcf)	2,670

### Federal onshore mineral lease royalties

Oil	\$44,957,328
Gas	\$ 6,193,948
Total Royalties	\$69,146,231

### Horizontal wells data

Horizontal wells drilled	375
--------------------------	-----

### Average number of employees

Oil and natural gas extraction	3,101
Refining	0
Transportation	240
Wholesale	1,671
Retail	4,058
Pipeline construction	167
Oilfield machinery	0
Total petroleum industry	9,237

On April 4, 1951, on the Clarence Iverson farm, eight miles south of Tioga, the Amerada Hess Petroleum Corp. brought in the discovery well for the Williston Basin. The basin extends from South Dakota to western Canada, and from central North Dakota to central Montana.



## 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	9,002
Natural gas	11,442

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

1967	11,442
------	--------

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	46,952	58%
Gas wells	22,273	28%
Dry holes	11,097	14%
Total	80,322	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$8,692,106

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,128	NA	1,128	9,629
Production	1,092	NA	1,092	8,891

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$62.89
Natural gas (\$/Mcf)	\$ 7.75

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$ 340,990
Natural gas	\$ 668,941
Total	\$1,009,931

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$14.39
Commercial consumers	\$12.83
Industrial consumers	\$11.60
Electric utilities	\$ 7.97
City Gate	\$ 9.87

### Severance taxes paid (2006, in thous. \$)

\$ 2,554

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	12	366	378
Gas	23	251	274
Dry	12	20	32
Total	47	637	684

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	52.4	1,497.4	1,549.8
Gas	85.2	891.2	976.4
Dry	27.9	84.4	112.3
Total	165.5	2,473.0	2,638.5

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

New-field wildcats drilled	16
Footage (thous. ft.)	43.6

Average rotary rigs active	8
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Permits	1,220
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	8th	11th
Production	18th	19th
Reserves (2006)	17th	20th

Number of operators	675
---------------------	-----

### Number of producing wells

(12/31/06)

Crude oil	17,867
Natural gas	23,123
Total	40,990

### Average production

Crude oil (thous. b/d)	12
NGL (thous. b/d)	1.9
Natural gas (MMcf/day)	170

### Natural gas marketed production

(MMcf)

86,315

### Average output per producing well

Crude oil (bbls.)	245
Natural gas (Mcf)	2,682

### Coalbed methane (YTD MMcf)

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: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	7	NA	7
Production	4	NA	4
Net annual change	3	NA	3
Proved reserves	49	NA	49

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	5	150	155
Production	15	63	78
Net annual change	-10	87	77
Proved reserves	174	801	975

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	80	328,872	124,314
Gas	97	347,295	95,159
Dry	126	441,036	14,113

### Marginal oil wells

Producing marginal wells	15,570
Crude oil production in bbls. (thous.)	3,709
Crude oil production b/d (thous.)	10

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	22,628
Natural gas production (MMcf)	52,003

### Federal onshore mineral lease royalties

Oil	\$195,146
Gas	\$615,425
Total Royalties	\$842,038

### Horizontal wells data

Horizontal wells drilled	0
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### Average number of employees

Oil and natural gas extraction	4,962
Refining	2,158
Transportation	4,470
Wholesale	5,683
Retail	35,401
Pipeline construction	1,340
Oilfield machinery	197
Total petroleum industry	54,211

On Jan 20, 1886, the spectacular "Karg Well" of Findlay, Ohio, came in with an initial flow of 12 million cubic feet per day — a pressure so great it could not be controlled. Its towering plume of fire was a popular tourist attraction that burned for four months.



## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	37	866	903
Gas	192	2,474	2,666
Dry	95	331	426
Total	324	3,671	3,995

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	243.4	4,302.3	4,545.7
Gas	1,853.7	16,788.3	18,641.9
Dry	591.7	1,710.4	2,302.1
Total	2,688.8	22,801.0	25,489.8

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

New-field wildcats drilled	181
Footage (thous. ft.)	1,458.0

Average rotary rigs active	179
----------------------------	-----

Permits	5,489
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	2nd	2nd
Production	6th	4th
Reserves (2006)	7th	4th

Number of operators	3,861
---------------------	-------

### Number of producing wells

(12/31/06)

Crude oil	54,408
Natural gas	36,358
Total	90,766

### Average production

Crude oil (thous. b/d)	148
NGL (thous. b/d)	25.8
Natural gas (MMcf/day)	4,268

### Natural gas marketed production

(MMcf) 1,688,985

### Average output per producing well

Crude oil (bbls.)	992
Natural gas (Mcf)	42,850

### Coalbed methane (YTD MMcf)

Oil Wells	8
Gas Wells	3,450
Daily Average (MMcf) / Well	204

### Heavy oil (YTD BBls, in thous.)

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

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-12	134	122
Production	49	81	130
Net annual change	-61	53	-8
Proved reserves	569	892	1,461

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	86	2,002	1,942
Production	95	1,604	1,601
Net annual change	-9	398	341
Proved reserves	800	17,735	17,464

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	200	1,007,809	910,052
Gas	295	2,062,100	5,497,559
Dry	222	1,197,746	510,240

### Marginal oil wells

Producing marginal wells	48,234
Crude oil production in bbls. (thous.)	35,018
Crude oil production b/d (thous.)	96

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	24,955
Natural gas production (MMcf)	303,692

### Federal onshore mineral lease royalties

Oil	\$ 12,139,225
Gas	\$ 39,651,131
Total Royalties	\$ 55,038,554

### Horizontal wells data

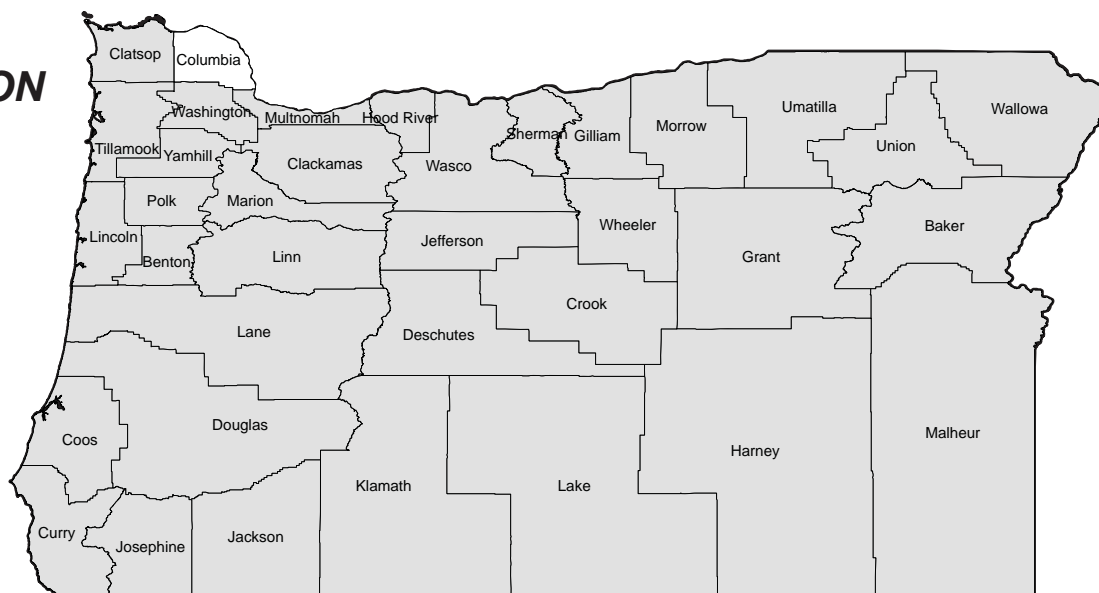
Horizontal wells drilled	691
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### Average number of employees

Oil and natural gas extraction	40,017
Refining	1,795
Transportation	4,475
Wholesale	4,046
Retail	13,271
Pipeline construction	1,843
Oilfield machinery	6,644
Total petroleum industry	72,091

*Curious onlookers gathered* at the Nellie Johnstone No. 1 well on April 15, 1898. At 3 p.m., George Keeler's stepdaughter, Miss Jenni Cass, dropped a "go devil" down the well bore to set off the waiting nitroglycerin — producing a gusher that marked the beginning of Oklahoma's oil era.

# OREGON



○ Counties with oil and/or gas production

## 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 12/31/06 (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 12/31/06 (thous. \$)	NA
----------------------------	----

### Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	NA	NA	NA	NA
Production	NA	NA	NA	72

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	NA
Natural gas (\$/Mcf)	\$4.42

### Wellhead value of production (2006, in thous. \$)

Crude oil	NA
Natural gas	\$ 2,745
Total	\$ 2,745

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$14.53
Commercial consumers	\$12.94
Industrial consumers	\$ 9.16
Electric utilities	\$ 5.95
City Gate	\$ 8.10

### Severance taxes paid

(2006, in thous. \$)	\$ 90
----------------------	-------



## 2006 Industry Statistics

### Number of wells drilled

	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: Totals may not add due to rounding.)

### New-field wildcats drilled

Footage (thous. ft.)	NA
----------------------	----

Average rotary rigs active	0
----------------------------	---

Permits	8
---------	---

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	NA	31st
Production	NA	28th
Reserves (2006)	NA	NA

Number of operators	2
---------------------	---

### Number of producing wells

(12/31/06)

Crude oil	0
Natural gas	13
Total	13

### Average production

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

### Natural gas marketed production

(MMcf)

621

### Average output per producing well

Crude oil (bbls.)	NA
Natural gas (Mcf)	48,015

### Coalbed methane (YTD MMcf)

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: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

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

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry 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/ well (\$)	Total Cost (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 12/31/06

Producing marginal wells	10
Natural gas production (MMcf)	158

### Federal onshore mineral lease royalties

Oil	--
Gas	--
Total Royalties	\$1,318,016

### Horizontal wells data

Horizontal wells drilled	0
--------------------------	---

### Average number of employees

Oil and natural gas extraction	22
Refining	0
Transportation	0
Wholesale	1,797
Retail	10,969
Pipeline construction	292
Oilfield machinery	0
Total petroleum industry	13,080

# PENNSYLVANIA



○ 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	13,186
Natural gas	8,484

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

1974	21,432
------	--------

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	22,270	31%
Gas wells	45,558	64%
Dry holes	3,809	4%
Total	71,637	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$)	\$5,277,711
----------------------------	-------------

### Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,368	NA	1,368	15,949
Production	1,357	NA	1,357	13,089

## Value of Oil and Gas

### Average wellhead price

(2006)	
Crude oil (\$/bbl.)	\$64.02
Natural gas (\$/Mcf)	NA

### Wellhead value of production

(2006, in thous. \$)	
Crude oil	\$232,137
Natural gas	NA
Total	\$232,137

### Average natural gas price

(2006, \$/Mcf)	
Residential consumers	\$16.45
Commercial consumers	\$14.30
Industrial consumers	\$12.30
Electric utilities	\$ 7.76
City Gate	\$10.30

### Severance taxes paid

(2006, in thous. \$)	--
----------------------	----

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	71	742	813
Gas	536	2,711	3,247
Dry	42	158	200
Total	649	3,611	4,260

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	148.5	1,387.2	1,535.7
Gas	2,225.4	10,290.9	12,516.3
Dry	174.0	445.1	619.1
Total	2,548.0	12,123.2	14,671.2

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

New-field wildcats drilled	217
Footage (thous. ft.)	904.7

Average rotary rigs active	16
----------------------------	----

Permits	6,686
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	10th	5th
Production	29th	25th
Reserves (2006)	23rd	14th

Number of operators	--
---------------------	----

### Number of producing wells

(12/31/06)

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

### Natural gas marketed production

(MMcf) 158,355

### 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.)

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

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	8	NA	8
Production	2	NA	2
Net annual change	6	NA	6
Proved reserves	20	NA	20

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	28	420	444
Production	11	166	176
Net annual change	17	254	268
Proved reserves	151	2,913	3,050

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	126	238,172	193,634
Gas	89	343,607	1,115,691
Dry	133	412,914	82,583

### 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 12/31/06

Producing marginal wells	0
Natural gas production (MMcf)	0

### Federal onshore mineral lease royalties

Oil	--
Gas	\$80,305
Total Royalties	\$200,151

### Horizontal wells data

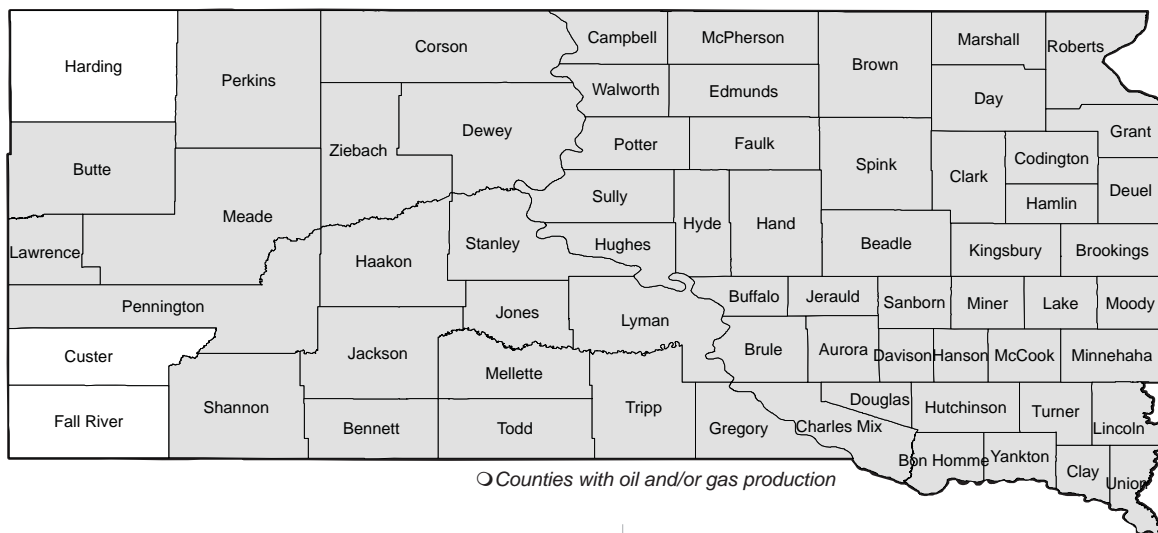
Horizontal wells drilled	6
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### Average number of employees

Oil and natural gas extraction	5,233
Refining	4,839
Transportation	5,678
Wholesale	11,220
Retail	36,425
Pipeline construction	1,929
Oilfield machinery	288
Total petroleum industry	65,612

America's petroleum industry began in Titusville when "Col." Edwin Drake, working for the Pennsylvania Rock Oil Co., struck oil at 69 1/2 feet on Aug. 27, 1859. Drake sold the oil to Samuel Kier for \$20 per barrel. Kier used a small still in Pittsburg to refine the oil into kerosene for illumination.

# 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 12/31/06 (excluding service wells)

Oil wells	374	22%
Gas wells	115	7%
Dry holes	1,176	71%
Total	1,665	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$)	\$953,421
----------------------------	-----------

### Cumulative production & new reserves

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

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$51.85
Natural gas (\$/Mcf)	\$ 6.40

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$72,279
Natural gas	\$ 6,163
Total	\$78,442

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$11.11
Commercial consumers	\$ 9.46
Industrial consumers	\$ 9.32
Electric utilities	NA
City Gate	\$ 8.01

### Severance taxes paid

(2006, in thous. \$)	\$3,256
----------------------	---------

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	1	18	19
Gas	NA	3	3
Dry	3	NA	3
Total	4	21	25

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	7.9	108.4	116.3
Gas	NA	5.5	5.5
Dry	3.5	NA	3.5
Total	11.5	113.9	125.3

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

New-field wildcats drilled	4
Footage (thous. ft.)	11.5

Average rotary rigs active	1
----------------------------	---

Permits	50
---------	----

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	28th	28th
Production	26th	27th
Reserves (2006)	NA	NA

Number of operators	16
---------------------	----

### Number of producing wells

(12/31/06)

Crude oil	153
Natural gas	62
Total	215

### Average production

Crude oil (thous. b/d)	4
NGL (thous. b/d)	0
Natural gas (MMcf/day)	1

### Natural gas marketed production

(MMcf)

963

### Average output per producing well

Crude oil (bbls.)	9,113
Natural gas (Mcf)	7,058

### Coalbed methane (YTD MMcf)

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: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

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

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry 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/ well (\$)	Total Cost (thous. \$)
Oil	401	2,453,380	46,614
Gas	251	457,528	1,373
Dry	159	186,925	561

### Marginal oil wells

Producing marginal wells	71
Crude oil production in bbls. (thous.)	212
Crude oil production b/d (thous.)	1

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	62
Natural gas production (MMcf)	438

### Federal onshore mineral lease royalties

Oil	\$1,403,517
Gas	\$ 151,322
Total Royalties	\$1,783,870

### Horizontal wells data

Horizontal wells drilled	14
--------------------------	----

### Average number of employees

Oil and natural gas extraction	7
Refining	0
Transportation	288
Wholesale	1,277
Retail	5,759
Pipeline construction	44
Oilfield machinery	0
Total petroleum industry	7,415

*Shell Oil Co. drilled* the discovery well for the Buffalo Field in October 1953 in Harding County. The well began producing at 9,332 feet on Jan. 14, 1954. Over the last 50 years, the well has produced 341,169 barrels of oil.



## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	4	42	46
Gas	105	55	160
Dry	8	71	79
Total	117	168	285

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	10.4	65.9	76.3
Gas	445.6	175.1	620.7
Dry	13.1	117.4	130.4
Total	469.0	358.3	827.4

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

New-field wildcats drilled 79

Footage (thous. ft.) 334.4

Average rotary rigs active 1

Permits 386

### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	25th	22nd
Production	29th	29th
Reserves (2006)	NA	NA

Number of operators --

### Number of producing wells

(12/31/06)

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

### Natural gas marketed production

(MMcf)

1,793

### 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 BBIs, in thous.) NA

Wells NA

Av. Bbls per day NA

Av. Bbls per well/d NA

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

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

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry 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/ well (\$)	Total Cost (thous. \$)
Oil	167	276,901	12,737
Gas	101	393,584	62,973
Dry	161	265,202	20,951

### 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 12/31/06

Producing marginal wells 0

Natural gas production (MMcf) 0

### Federal onshore mineral lease royalties

Oil --

Gas --

Total Royalties --

### Horizontal wells data

Horizontal wells drilled 0

### Average number of employees

Oil and natural gas extraction 637

Refining 0

Transportation 2,315

Wholesale 3,629

Retail 24,063

Pipeline construction 646

Oilfield machinery 0

Total petroleum industry 31,290

Between 1859 and 1870, several exploratory wells were drilled in Overton County. The Gilbreath No. 1 on Bear Creek came in at a depth of only 20 feet in 1860. In 1866, the Newman No. 1 well came in on Spring Creek and yielded about 2,000 barrels of oil from a depth of only 19 feet.





## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	85	4,241	4,326
Gas	265	7,359	7,624
Dry	338	1,121	1,459
Total	688	12,721	13,409

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	563.7	23,336.4	23,900.1
Gas	2,618.0	70,242.5	72,860.5
Dry	2,605.6	6,354.9	8,960.5
Total	5,787.2	99,933.8	105,721.1

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

New-field wildcats drilled	387
Footage (thous. ft.)	3,022.4

Average rotary rigs active	746
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Permits	19,291
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	1st	1st
Production	2nd	1st
Reserves (2006)	1st	1st

Number of operators	4,795
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### Number of producing wells

(12/31/06)

Crude oil	153,455
Natural gas	86,272
Total	239,727

### Average production

Crude oil (thous. b/d)	948
NGL (thous. b/d)	123.4
Natural gas (MMcf/day)	15,471

### Natural gas marketed production

(MMcf)	5,513,739
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### Average output per producing well

Crude oil (bbls.)	2,255
Natural gas (Mcf)	65,456

Coalbed methane (YTD MMcf)	188
Oil Wells	0
Gas Wells	11
Daily Average (MMcf) / Well	1

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

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	307	568	970
Production	355	313	668
Net annual change	-48	255	207
Proved reserves	4,871	3,335	8,206

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	660	10,931	10,937
Production	594	5,370	5,608
Net annual change	66	5,561	5,329
Proved reserves	7,069	58,736	61,836

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	229	1,265,874	5,476,173
Gas	367	3,507,603	26,741,969
Dry	262	1,611,405	2,351,040

### Marginal oil wells

Producing marginal wells	140,644
Crude oil production in bbls. (thous.)	145,308
Crude oil production b/d (thous.)	398

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	50,964
Natural gas production (MMcf)	583,968

### Federal onshore mineral lease royalties

Oil	\$ 5,075,123
Gas	\$24,639,763
Total Royalties	\$37,798,496

### Horizontal wells data

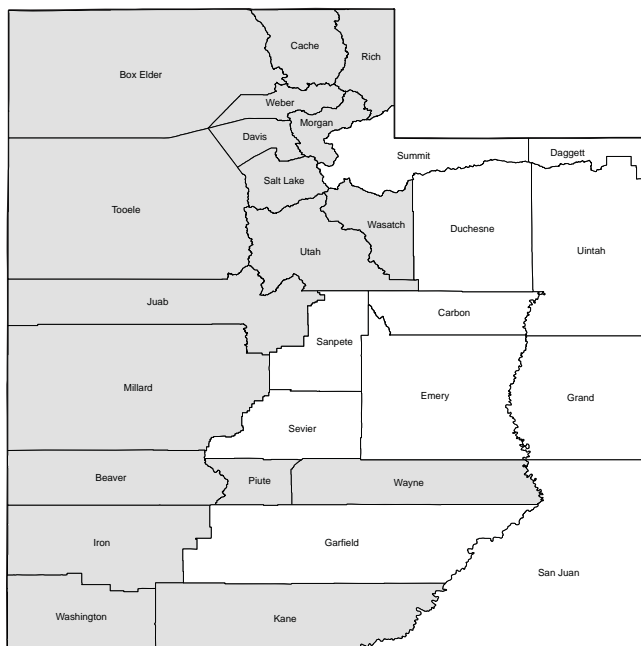
Horizontal wells drilled	2,200
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### Average number of employees

Oil and natural gas extraction	180,803
Refining	21,080
Transportation	19,541
Wholesale	16,636
Retail	67,406
Pipeline construction	22,404
Oilfield machinery	33,724
Total petroleum industry	361,594

Confederate veteran Lyne Taliaferro Barret's Melrose Petroleum Oil Co. brought in the No. 1 Isaac C. Skillern well near Nacodoches, Texas, on Sept. 12, 1866. The Lone Star state's first commercial producer yielded a modest ten barrels per day.

TEXAS



○ Counties 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 — 348,140 MMcf	1994

### Deepest producing well (ft.)

Crude oil	20,600
Natural gas	18,607

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

1982	21,874
------	--------

### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	6,813	38%
Gas wells	6,040	34%
Dry holes	4,908	28%
Total	17,761	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$18,438,149

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,480	1,483	2,963	11,482
Production	1,193	385	1,578	6,276

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$59.70
Natural gas (\$/Mcf)	\$ 5.70

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$1,069,227
Natural gas	\$1,983,828
Total	\$3,053,055

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$ 11.02
Commercial consumers	\$ 9.61
Industrial consumers	\$ 8.02
Electric utilities	NA
City Gate	\$ 8.42

### Severance taxes paid (2006, in thous. \$)

\$77,074

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	19	287	306
Gas	79	570	649
Dry	27	23	50
Total	125	880	1,005

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	124.1	1,763.8	1,887.9
Gas	659.8	4,794.7	5,454.5
Dry	186.8	75.2	262.0
Total	970.8	6,633.6	7,604.4

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

New-field wildcats drilled	53
Footage (thous. ft.)	404.8

Average rotary rigs active	40
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Permits	2,127
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	21st	19th
Production	13th	11th
Reserves (2005)	11th	9th

Number of operators	122
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### Number of producing wells

(12/31/06)

Crude oil	2,953
Natural gas	4,781
Total	7,734

### Average production

Crude oil (thous. b/d)	44
NGL (thous. b/d)	5.4
Natural gas (MMcf/day)	881

### Natural gas marketed production

(MMcf)	348,040
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### Average output per producing well

Crude oil (bbls.)	5,406
Natural gas (Mcf)	67,272

### Coalbed methane (YTD MMcf)

Oil Wells	2
Gas Wells	865
Daily Average (MMcf) / Well	213

### Heavy oil (YTD BBls, in thous.)

Wells	19
Av. Bbls per day	0.5
Av. Bbls per well/d	9,916

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	95	70	165
Production	17	62	79
Net annual change	78	8	86
Proved reserves	334	887	1,221

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	39	1,166	1,200
Production	30	323	349
Net annual change	9	843	851
Proved reserves	317	4,894	5,146

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	201	1,240,306	379,534
Gas	443	3,721,826	2,415,465
Dry	321	1,681,321	84,066

### Marginal oil wells

Producing marginal wells	1,979
Crude oil production in bbls. (thous.)	4,163
Crude oil production b/d (thous.)	11

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	2,386
Natural gas production (MMcf)	35,126

### Federal onshore mineral lease royalties

Oil	\$115,262,119
Gas	\$184,611,613
Total Royalties	\$430,783,951

### Horizontal wells data

Horizontal wells drilled	4
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### Average number of employees

Oil and natural gas extraction	5,168
Refining	819
Transportation	1,142
Wholesale	910
Retail	9,612
Pipeline construction	400
Oilfield machinery	248
Total petroleum industry	18,299

In 1907, Pat Holohan found oil sand in Washington County and a dozen companies rushed in to drill 14 more. The next year, L.L. Goodridge brought in a gusher at Mexican Hat in San Juan County.

# VIRGINIA



○ Counties with oil and/or gas production

## 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 — 102,798 MMcf	2006

### 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 12/31/06 (excluding service wells)

Oil wells	54	1%
Gas wells	4,757	92%
Dry holes	337	7%
Total	5,148	100%

### Cumulative crude oil wellhead value

as of 12/31/06 (thous. \$)	\$11,097
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### Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	NA	NA	NA	3,184
Production	NA	NA	NA	1,190

## Value of Oil and Gas

### Average wellhead price (2006)

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

### Wellhead value of production (2006, in thous. \$)

Crude oil	NA
Natural gas	NA
Total	NA

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$16.20
Commercial consumers	\$12.46
Industrial consumers	\$ 9.98
Electric utilities	\$ 7.73
City Gate	\$10.51

### Severance taxes paid (2006, in thous. \$)

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## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	14	531	545
Dry	NA	NA	NA
Total	14	531	545

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	80.5	1,422.7	1,503.2
Dry	NA	NA	NA
Total	80.5	1,422.7	1,503.2

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

New-field wildcats drilled	6
Footage (thous. ft.)	34.1

Average rotary rigs active	1
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Permits	623
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	32nd	20th
Production	32nd	17th
Reserves (2006)	NA	17th

Number of operators*	21
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### Number of producing wells

(12/31/06)

Crude oil	NA
Natural gas	5,007
Total	5,007

### Average production

Crude oil (thous. b/d)	0
NGL (thous. b/d)	0
Natural gas (MMcf/day)	282

### Natural gas marketed production

(MMcf)	103,027
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### Average output per producing well

Crude oil (bbls.)	NA
Natural gas (Mcf)	20,531

### Coalbed methane (YTD MMcf)

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

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

Source: EIA for production and IHS for wells drilled.  
\* State Data

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

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

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	0	386	386
Production	0	102	102
Net annual change	0	284	284
Proved reserves	0	2,302	2,302

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	NA	NA	NA
Gas	115	316,063	172,254
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 12/31/06

Producing marginal wells	4,117
Natural gas production (MMcf)	53,268

### Federal onshore mineral lease royalties

Oil	--
Gas	\$440,161
Total Royalties	\$478,497

### Horizontal wells data

Horizontal wells drilled	0
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### Average number of employees

Oil and natural gas extraction	1,543
Refining	0
Transportation	1,997
Wholesale	4,900
Retail	33,251
Pipeline construction	1,748
Oilfield machinery	0
Total petroleum industry	43,439

Reporting on the Ruffner brothers wells northwestern Virginia in 1833, the American Journal of Science noted, "The petroleum affords considerable profit and is beginning to be in demand for workshops and manufactories. It affords a clear, brisk light, when burned in this way, and will be a valuable article for lighting the street lamps in the future . . ."





## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	6	71	77
Gas	193	1,502	1,695
Dry	8	11	19
Total	207	1,584	1,791

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	25.0	244.8	269.8
Gas	892.1	6,175.1	7,067.1
Dry	32.0	24.4	56.4
Total	949.0	6,444.3	7,393.3

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

New-field wildcats drilled	36
Footage (thous. ft.)	165.8

Average rotary rigs active	27
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Permits	2,593
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### State-wide rank

	Crude Oil	Natural Gas
Wells drilled	16th	3rd
Production	24th	14th
Reserves (2006)	22nd	10th

Number of operators	492
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### Number of producing wells

(12/31/06)

Crude oil	2,107
Natural gas	41,364
Total	43,471

### Average production

Crude oil (thous. b/d)	2
NGL (thous. b/d)	2.3
Natural gas (MMcf/day)	562

### Natural gas marketed production

(MMcf) 225,530

### Average output per producing well

Crude oil (bbls.)	374
Natural gas (Mcf)	4,957

### Coalbed methane (YTD MMcf)

Oil Wells	0
Gas Wells	88
Daily Average (MMcf) / Well	3

### Heavy oil (YTD BBls, in thous.)

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

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	4	30	34
Production	2	5	7
Net annual change	2	25	27
Proved reserves	23	110	133

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-2	277	237
Production	1	192	187
Net annual change	-3	85	50
Proved reserves	16	4,638	4,509

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	89	311,421	23,979
Gas	87	361,116	612,092
Dry	140	415,749	7,899

### Marginal oil wells

Producing marginal wells	1,689
Crude oil production in bbls. (thous.)	463
Crude oil production b/d (thous.)	1

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	40,544
Natural gas production (MMcf)	167,499

### Federal onshore mineral lease royalties

Oil	\$ 996
Gas	\$ 709,959
Total Royalties	\$ 981,725

### Horizontal wells data

Horizontal wells drilled	2
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### Average number of employees

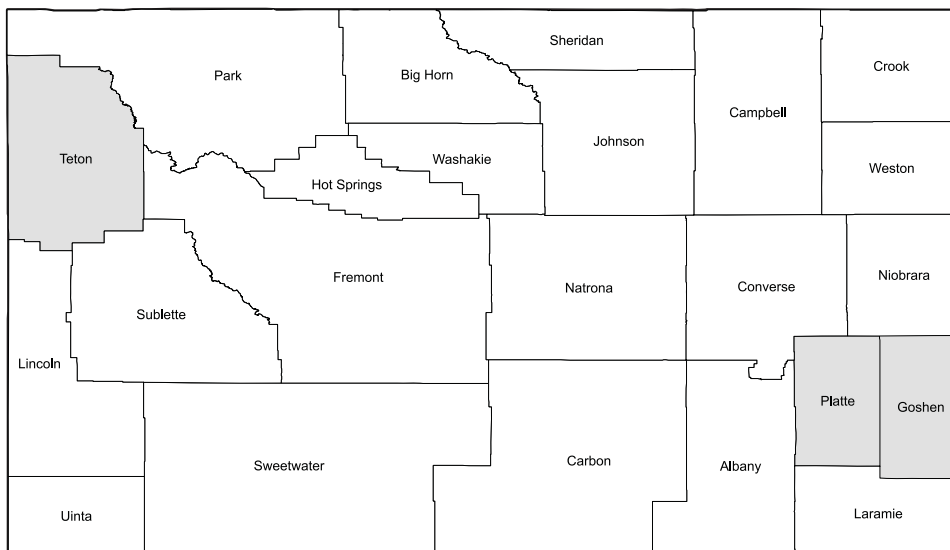
Oil and natural gas extraction	4,493
Refining	900
Transportation	2,297
Wholesale	1,042
Retail	9,233
Pipeline construction	826
Oilfield machinery	0
Total petroleum industry	18,791

### Confederate Gen. William "Grumble"

Jones attacked Burning Springs on May 9, 1863.

Jones reported, "All the oil, the tanks, barrels, engines for pumping, engine-houses, and wagons — in a word, everything used for raising, holding, or sending it off was burned."

# WYOMING



○ 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.)

2001	25,830
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### Cumulative number of total wells drilled as of 12/31/06 (excluding service wells)

Oil wells	33,311	33%
Gas wells	38,559	38%
Dry holes	29,858	29%
Total	101,728	100%

### Cumulative crude oil wellhead value as of 12/31/06 (thous. \$)

\$70,085,007

### Cumulative production & new reserves as of 12/31/06

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	7,297	1,956	9,253	53,046
Production	6,732	1,263	7,995	31,633

## Value of Oil and Gas

### Average wellhead price (2006)

Crude oil (\$/bbl.)	\$53.25
Natural gas (\$/Mcf)	\$ 5.85

### Wellhead value of production (2006, in thous. \$)

Crude oil	\$ 2,817,138
Natural gas	\$10,624,776
Total	\$13,441,914

### Average natural gas price (2006, \$/Mcf)

Residential consumers	\$11.60
Commercial consumers	\$10.30
Industrial consumers	\$ 8.90
Electric utilities	NA
City Gate	\$ 7.20

### Severance taxes paid (2006, in thous. \$)

\$660,461

## 2006 Industry Statistics

### Number of wells drilled

	Exploratory	Development	Total
Oil	19	231	250
Gas	46	3,711	3,757
Dry	45	82	127
Total	110	4,024	4,134

### Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	187.8	1,385.4	1,573.2
Gas	501.8	14,476.0	14,977.8
Dry	320.0	349.3	669.2
Total	1,009.6	16,210.6	17,220.2

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

New-field wildcats drilled	68
Footage (thous. ft.)	594.6

Average rotary rigs active	99
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Permits	5,542
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### State-wide rank

	Crude Oil	Natural gas
Wells drilled	9th	6th
Production	8th	3rd
Reserves (2006)	5th	2nd

Number of operators	463
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### Number of producing wells

(12/31/06)

Crude oil	12,813
Natural gas	29,875
Total	42,688

### Average production

Crude oil (thous. b/d)	116
NGL (thous. b/d)	29.5
Natural gas (MMcf/day)	5,339

### Natural gas marketed production

(MMcf)

1,816,201

### Average output per producing well

Crude oil (bbls.)	3,300
Natural gas (Mcf)	65,226

### Coalbed methane (YTD MMcf)

Oil Wells	3
Gas Wells	19,879
Daily Average (MMcf) / Well	1,055

### Heavy oil (YTD BBls, in thous.)

Wells	2,047
Av. Bbls per day	30.1
Av. Bbls per well/d	5,361

Source: EIA for production and IHS for wells drilled.

## 2006 Latest Available Data

### Petroleum reserves

as of 12/31/06 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	45	70	115
Production	43	62	105
Net annual change	2	8	10
Proved reserves	706	887	1,593

### Natural gas reserves

as of 12/31/06 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	10	1,492	1,470
Production	47	1,714	1,695
Net annual change	-37	-222	-225
Proved reserves	347	24,116	23,549

### Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	394	2,479,171	619,793
Gas	556	2,217,858	8,332,491
Dry	351	1,850,028	234,954

### Marginal oil wells

Producing marginal wells	10,520
Crude oil production in bbls. (thous.)	13,316
Crude oil production b/d (thous.)	36

### Marginal natural gas wells

as of 12/31/06

Producing marginal wells	18,043
Natural gas production (MMcf)	187,793

### Federal onshore mineral lease royalties

Oil	\$ 230,457,579
Gas	\$1,056,668,685
Total Royalties	\$2,206,279,983

### Horizontal wells data

Horizontal wells drilled	60
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### Average number of employees

Oil and natural gas extraction	17,523
Refining	861
Transportation	909
Wholesale	743
Retail	4,052
Pipeline construction	3,823
Oilfield machinery	149
Total petroleum industry	28,060

In 1832, Captain B. L. E. Bonneville took the first wagons through South Pass and recorded the presence of oil. Fifty years later, prospector Mike Murphy, bought an oil lease on the site of Capt. Bonneville's "great tar spring" southeast of Lander.

## ROTARY RIGS OPERATING

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Alabama	4	6	6	4	5	3	3	3	4	5
Alaska	11	12	5	8	13	11	10	10	9	8
Arizona	0	0	0	0	0	0	0	0	0	0
Arkansas	10	6	3	4	2	1	2	6	9	24
California	32	28	19	24	36	23	22	24	27	33
Colorado	16	13	13	18	32	28	39	54	74	89
Florida	0	0	0	0	0	0	1	1	2	0
Illinois	0	0	0	0	0	0	0	0	0	0
Indiana	0	0	0	0	0	0	0	0	0	0
Kansas	19	13	7	22	23	8	9	7	7	10
Kentucky	5	3	6	5	6	5	4	5	5	7
Louisiana	194	187	141	194	214	163	157	167	182	188
Michigan	6	5	2	3	1	1	3	3	3	2
Mississippi	13	14	7	11	14	8	8	10	10	10
Montana	11	9	4	7	10	8	14	20	24	22
Nebraska	1	1	0	1	0	0	0	1	0	0
Nevada	0	0	0	0	0	0	1	2	2	1
New Mexico	53	45	36	68	68	42	65	67	83	94
New York	1	2	3	3	5	4	3	5	4	6
North Dakota	18	11	6	13	14	10	14	15	21	32
Ohio	9	10	11	9	10	9	8	7	9	8
Oklahoma	104	85	62	99	130	91	129	159	152	179
Oregon	0	0	0	0	0	0	0	0	0	0
Pennsylvania	10	11	8	9	11	11	10	9	13	16
South Dakota	1	0	1	0	1	0	0	1	2	1
Texas	358	303	227	343	462	338	449	506	614	746
Utah	14	12	9	16	21	13	14	22	28	40
Virginia	2	2	5	2	2	2	1	1	2	1
West Virginia	15	14	14	14	18	13	16	15	17	27
Wyoming	39	38	32	41	55	40	54	74	78	99
Other	1	1	0	0	2	1	1	0	1	NA
<b>TOTAL U.S.</b>	<b>943</b>	<b>827</b>	<b>625</b>	<b>918</b>	<b>1,156</b>	<b>830</b>	<b>1,032</b>	<b>1,192</b>	<b>1,381</b>	<b>1,649</b>
<b>ONSHORE</b>	820	703	517	779	1,002	716	923	1,095	1,287	1,561
<b>OFFSHORE</b>	123	124	107	139	154	114	109	97	94	88

Source: Baker-Hughes.

ROTARY RIGS OPERATING

## NEW-FIELD WILDCAT WELLS DRILLED

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	28	18	19	17	19	16	17	22	17	24
<b>Alaska</b>	11	12	5	8	10	10	9	8	0	5
<b>Arizona</b>	3	7	0	0	0	10	9	8	4	1
<b>Arkansas</b>	22	15	13	13	18	10	10	20	13	55
<b>California</b>	35	22	32	42	42	29	26	31	30	13
<b>Colorado</b>	77	60	49	42	71	40	49	64	136	101
<b>Florida</b>	0	0	0	0	0	0	0	0	2	0
<b>Georgia</b>	0	1	0	0	1	0	0	0	0	0
<b>Illinois</b>	57	23	13	20	36	17	33	31	33	31
<b>Indiana</b>	28	9	7	5	19	10	17	20	20	32
<b>Iowa</b>	0	0	0	0	1	0	0	0	0	0
<b>Kansas</b>	188	120	82	147	215	155	160	180	227	277
<b>Kentucky</b>	34	18	16	26	87	84	123	151	124	239
<b>Louisiana</b>	95	80	76	83	63	74	61	59	59	51
<b>Maryland</b>	0	0	0	0	0	0	0	0	0	0
<b>Michigan</b>	57	40	22	20	19	24	19	23	17	28
<b>Mississippi</b>	31	29	29	25	28	38	33	29	33	30
<b>Missouri</b>	1	1	3	1	3	2	0	0	0	0
<b>Montana</b>	69	67	45	56	90	95	121	159	168	138
<b>Nebraska</b>	23	14	9	15	12	14	15	16	18	20
<b>Nevada</b>	10	6	1	3	3	2	3	3	5	1
<b>New Mexico</b>	48	40	38	44	58	32	61	77	45	65
<b>New York</b>	1	9	16	22	39	35	25	47	2	13
<b>North Carolina</b>	0	2	0	0	0	0	0	0	0	0
<b>North Dakota</b>	49	28	16	19	19	9	4	25	45	104
<b>Ohio</b>	9	21	1	0	5	6	4	2	13	16
<b>Oklahoma</b>	100	63	57	65	102	69	97	102	110	181
<b>Oregon</b>	0	1	0	0	0	0	0	0	0	0
<b>Pennsylvania</b>	2	2	5	4	23	15	37	67	142	217
<b>South Dakota</b>	8	5	1	1	1	6	5	1	6	4
<b>Tennessee</b>	4	4	8	9	11	23	42	25	33	79
<b>Texas</b>	538	581	453	517	432	345	434	476	464	387
<b>Utah</b>	15	23	15	6	20	30	12	22	32	53
<b>Virginia</b>	1	0	1	7	4	8	7	1	2	6
<b>Washington</b>	1	1	1	1	1	0	0	0	0	0
<b>West Virginia</b>	1	3	5	10	32	29	18	28	23	36
<b>Wyoming</b>	155	107	89	77	78	74	85	86	80	68
<b>Federal Offshore</b>	61	54	66	106	106	70	83	81	158	146
<b>TOTAL U.S.</b>	<b>1,762</b>	<b>1,487</b>	<b>1,193</b>	<b>1,411</b>	<b>1,668</b>	<b>1,372</b>	<b>1,610</b>	<b>1,857</b>	<b>1,936</b>	<b>2,275</b>

Source: IHS.

Note: Data include oil wells, gas wells, and dry holes and may not total due to Federal Offshore data duplication.

NEW-FIELD WILDCAT WELLS DRILLED

## EXPLORATORY WELLS DRILLED

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	30	19	20	17	22	17	23	36	27	33
<b>Alaska</b>	12	13	5	8	14	17	11	13	18	11
<b>Arizona</b>	3	7	0	1	0	1	0	1	4	1
<b>Arkansas</b>	24	15	13	14	23	10	12	26	35	78
<b>California</b>	71	66	67	80	90	64	50	60	62	30
<b>Colorado</b>	115	135	104	88	137	57	82	100	204	158
<b>Florida</b>	0	0	0	0	0	0	0	0	2	0
<b>Georgia</b>	0	1	0	0	1	0	0	0	0	0
<b>Iowa</b>	0	0	0	0	1	0	0	0	0	0
<b>Illinois</b>	118	75	37	51	47	33	46	47	45	67
<b>Indiana</b>	69	33	20	10	19	12	37	24	35	45
<b>Kansas</b>	295	190	148	251	400	281	292	345	416	452
<b>Kentucky</b>	80	63	46	58	121	125	173	269	269	489
<b>Louisiana</b>	106	92	85	87	64	83	72	73	70	64
<b>Maryland</b>	0	0	0	0	0	0	0	0	0	0
<b>Michigan</b>	60	44	30	23	25	30	23	27	23	34
<b>Mississippi</b>	43	30	31	33	33	43	41	33	44	40
<b>Missouri</b>	1	1	3	1	3	2	0	0	0	0
<b>Montana</b>	106	119	65	100	177	156	187	248	287	255
<b>Nebraska</b>	38	18	17	30	19	17	22	18	29	31
<b>Nevada</b>	11	7	1	3	4	2	3	3	5	1
<b>New Mexico</b>	143	128	104	95	115	75	98	103	94	114
<b>New York</b>	4	11	18	26	46	38	32	59	27	15
<b>North Carolina</b>	0	2	0	0	0	0	0	0	0	0
<b>North Dakota</b>	132	88	41	51	52	22	23	53	73	165
<b>Ohio</b>	83	55	25	26	35	27	22	24	38	47
<b>Oklahoma</b>	153	86	67	103	188	109	209	251	276	324
<b>Oregon</b>	0	2	5	0	0	0	0	0	0	0
<b>Pennsylvania</b>	2	7	13	10	31	29	70	206	436	649
<b>South Dakota</b>	11	7	2	1	2	6	5	4	7	4
<b>Tennessee</b>	16	11	12	21	16	26	54	56	71	117
<b>Texas</b>	1,228	1,033	789	848	1,000	706	786	762	732	688
<b>Utah</b>	35	45	23	19	72	41	35	47	68	125
<b>Virginia</b>	1	1	1	9	5	14	10	2	6	14
<b>Washington</b>	1	1	1	0	1	0	0	0	0	0
<b>West Virginia</b>	8	11	18	28	76	88	41	144	196	207
<b>Wyoming</b>	195	180	143	142	178	151	143	126	130	110
<b>Federal Offshore</b>	62	74	78	106	106	70	83	81	166	155
<b>TOTAL U.S.</b>	<b>3,266</b>	<b>2,670</b>	<b>2,032</b>	<b>2,340</b>	<b>3,123</b>	<b>2,352</b>	<b>2,685</b>	<b>3,241</b>	<b>3,729</b>	<b>4,368</b>

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

## DEVELOPMENT WELLS DRILLED

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	94	168	205	152	346	246	371	405	416	407
<b>Alaska</b>	158	200	94	128	164	179	165	193	155	121
<b>Arizona</b>	0	0	1	0	0	0	0	0	0	0
<b>Arkansas</b>	215	177	136	155	227	144	216	278	299	417
<b>California</b>	2,431	2,134	1,478	2,113	2,181	1,925	1,928	2,161	2,234	2,464
<b>Colorado</b>	677	720	636	955	1,392	1,332	1,511	1,892	2,506	2,845
<b>Florida</b>	4	1	0	4	0	1	0	0	1	0
<b>Illinois</b>	456	339	213	328	367	289	308	277	379	411
<b>Indiana</b>	76	55	34	53	117	81	145	125	128	72
<b>Kansas</b>	1,414	728	497	911	1,099	902	1,339	1,542	1,867	2,709
<b>Kentucky</b>	685	587	601	729	865	891	752	573	680	805
<b>Louisiana</b>	1,249	1,098	757	1,031	1,217	790	1,003	1,188	1,381	1,569
<b>Maryland</b>	0	0	1	0	0	0	0	0	0	0
<b>Michigan</b>	610	540	298	374	414	337	353	403	505	524
<b>Mississippi</b>	151	159	86	192	242	168	240	237	255	253
<b>Missouri</b>	1	1	5	14	6	0	1	0	0	0
<b>Montana</b>	345	242	383	418	406	388	644	504	682	863
<b>Nebraska</b>	44	14	3	11	13	14	16	32	46	34
<b>Nevada</b>	4	4	1	1	3	2	0	0	0	0
<b>New Mexico</b>	1,169	1,097	935	1,461	1,574	1,200	1,526	1,686	1,812	1,914
<b>New York</b>	60	54	69	70	77	54	46	77	133	227
<b>North Dakota</b>	186	145	42	121	158	154	199	168	227	322
<b>Ohio</b>	697	517	495	547	690	493	493	525	539	637
<b>Oklahoma</b>	2,172	1,847	1,582	2,176	2,982	2,351	2,783	2,884	3,248	3,671
<b>Oregon</b>	0	5	5	0	0	0	0	0	0	0
<b>Pennsylvania</b>	1,245	1,502	1,362	1,591	2,232	2,183	2,505	2,290	2,908	3,611
<b>South Dakota</b>	6	3	4	10	9	6	3	8	34	21
<b>Tennessee</b>	67	98	109	165	103	81	198	146	163	168
<b>Texas</b>	9,276	7,012	4,697	6,931	8,052	6,534	8,592	9,522	10,800	12,272
<b>Utah</b>	376	455	237	414	549	383	381	554	709	880
<b>Virginia</b>	263	221	278	245	304	291	358	361	318	531
<b>Washington</b>	0	0	0	0	0	0	0	2	0	0
<b>West Virginia</b>	709	764	670	653	887	870	974	1,081	1,212	1,584
<b>Wyoming</b>	1,025	1,075	2,438	4,744	5,331	3,045	2,768	3,717	4,330	4,024
<b>Federal Offshore</b>	1,035	893	794	939	952	612	630	615	551	483
<b>TOTAL U.S.</b>	<b>25,987</b>	<b>22,076</b>	<b>18,506</b>	<b>26,843</b>	<b>32,184</b>	<b>25,454</b>	<b>29,923</b>	<b>32,945</b>	<b>37,967</b>	<b>43,805</b>

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



## TOTAL WELLS DRILLED

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Alabama	124	187	225	169	368	263	394	441	443	440
Alaska	170	213	99	136	178	196	176	206	173	132
Arizona	3	7	1	1	0	1	0	1	4	1
Arkansas	239	192	149	169	250	154	228	304	334	495
California	2,502	2,200	1,545	2,193	2,271	1,989	1,978	2,221	2,296	2,494
Colorado	792	855	740	1,043	1,529	1,389	1,593	1,992	2,710	3,003
Florida	4	1	0	4	0	1	0	0	3	0
Georgia	0	1	0	0	1	0	0	0	0	0
Illinois	574	414	250	379	414	322	354	324	424	478
Indiana	145	88	54	63	136	93	182	149	163	117
Iowa	0	0	0	0	1	0	0	0	0	0
Kansas	1,709	918	645	1,162	1,499	1,183	1,631	1,887	2,283	3,161
Kentucky	765	650	647	787	986	1,016	925	842	949	1,294
Louisiana	1,355	1,190	842	1,118	1,281	873	1,075	1,261	1,451	1,633
Maryland	0	0	1	0	0	0	0	0	0	0
Michigan	670	584	328	397	439	367	376	430	528	558
Mississippi	194	189	117	225	275	211	281	270	299	293
Missouri	2	2	8	15	9	2	1	0	0	0
Montana	451	361	448	518	583	544	831	752	969	1,118
Nebraska	82	32	20	41	32	31	38	50	75	65
Nevada	15	11	2	4	7	4	3	3	5	1
New Mexico	1,312	1,225	1,039	1,556	1,689	1,275	1,624	1,789	1,906	2,028
New York	64	65	87	96	123	92	78	136	160	242
North Carolina	0	2	0	0	0	0	0	0	0	0
North Dakota	318	233	83	172	210	176	222	221	300	487
Ohio	780	572	520	573	725	520	515	549	577	684
Oklahoma	2,325	1,933	1,649	2,279	3,170	2,460	2,992	3,135	3,524	3,995
Oregon	0	7	10	0	0	0	0	0	0	0
Pennsylvania	1,247	1,509	1,375	1,601	2,263	2,212	2,575	2,496	3,344	4,260
South Dakota	17	10	6	11	11	12	8	12	41	25
Tennessee	83	109	121	186	119	107	252	202	234	285
Texas	10,514	8,045	5,486	7,779	9,052	7,240	9,378	10,284	11,532	13,409
Utah	411	500	260	433	621	424	416	601	777	1,005
Virginia	264	222	279	254	309	305	368	363	324	545
Washington	1	1	1	0	1	0	0	2	0	0
West Virginia	717	775	688	681	963	958	1,015	1,225	1,408	1,791
Wyoming	1,220	1,255	2,581	4,886	5,509	3,196	2,911	3,843	4,460	4,134
Federal Offshore	1,237	1,078	971	1,135	1,158	758	807	786	716	638
<b>TOTAL U.S.</b>	<b>30,306</b>	<b>25,636</b>	<b>21,277</b>	<b>30,066</b>	<b>36,182</b>	<b>28,374</b>	<b>33,227</b>	<b>36,777</b>	<b>41,696</b>	<b>48,173</b>

TOTAL WELLS DRILLED

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

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	564	549	521	502	494	481	485	502	557	493
<b>Alaska</b>	2,229	2,349	2,256	2,243	2,304	2,310	2,283	2,384	2,505	2,465
<b>Arizona</b>	27	29	30	28	27	24	24	21	23	25
<b>Arkansas</b>	2,553	2,352	2,167	2,244	5,498	4,385	2,718	2,143	2,138	2,505
<b>California</b>	45,731	46,267	45,293	46,654	47,148	46,811	47,060	47,666	48,239	49,705
<b>Colorado</b>	5,519	5,370	5,305	5,400	5,322	5,272	5,133	5,140	5,088	5,049
<b>Florida</b>	107	99	88	79	73	72	96	67	76	65
<b>Kansas</b>	47,594	45,683	42,539	42,358	41,774	41,629	41,261	40,167	40,024	40,349
<b>Louisiana</b>	20,199	19,290	18,300	19,604	18,530	17,996	17,991	17,569	17,463	17,999
<b>Michigan</b>	958	2,519	2,631	3,688	3,845	3,672	3,790	3,761	3,887	3,847
<b>Mississippi</b>	1,854	1,796	1,715	1,742	1,768	1,616	1,664	1,685	1,647	1,788
<b>Montana</b>	3,823	3,735	3,617	3,741	4,409	3,662	3,713	3,918	4,052	4,272
<b>Nebraska</b>	1,493	1,424	1,269	1,270	1,250	1,224	1,222	1,224	1,211	1,229
<b>Nevada</b>	80	75	70	69	69	71	71	68	71	68
<b>New Mexico</b>	18,452	18,517	18,189	18,809	19,512	19,420	19,652	20,034	20,553	21,219
<b>New York</b>	NA	NA	NA	NA	10	NA	2,417	2,406	2,053	2,395
<b>North Dakota</b>	3,572	3,483	3,391	3,418	3,481	4,224	3,519	3,779	3,506	3,512
<b>Ohio</b>	16,866	16,222	15,443	16,760	17,277	17,529	17,165	17,147	17,436	17,867
<b>Oklahoma</b>	69,172	66,986	64,254	61,074	60,923	58,088	53,530	52,326	51,869	54,408
<b>South Dakota</b>	157	148	143	144	144	143	143	145	162	153
<b>Texas</b>	179,250	175,147	166,711	163,487	161,943	158,410	154,932	152,693	152,045	153,455
<b>Utah</b>	2,242	2,201	2,112	2,142	2,201	2,163	2,217	2,433	2,685	2,953
<b>West Virginia</b>	2,041	1,895	1,558	1,263	1,708	2,188	1,469	2,099	2,115	2,107
<b>Wyoming</b>	12,096	11,775	11,599	11,910	11,921	11,716	11,688	11,743	12,147	12,813
<b>Federal Offshore</b>	4,571	4,405	4,256	4,240	4,235	4,127	3,957	3,840	3,631	3,146
<b>TOTAL U.S.</b>	<b>441,150</b>	<b>432,316</b>	<b>413,457</b>	<b>412,869</b>	<b>415,866</b>	<b>407,233</b>	<b>398,200</b>	<b>394,960</b>	<b>395,183</b>	<b>403,887</b>

Source: IHS.

## PRODUCING NATURAL GAS WELLS

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	3,362	3,469	3,497	3,698	3,891	4,130	4,460	4,784	5,122	5,523
<b>Arizona</b>	8	7	7	7	7	8	6	7	4	5
<b>Arkansas</b>	3,068	3,117	3,073	3,336	3,454	3,510	3,704	3,959	4,298	4,481
<b>California</b>	1,447	1,287	1,309	1,359	1,484	1,416	1,467	1,497	1,579	1,715
<b>Colorado</b>	13,342	13,541	16,040	16,824	18,137	19,280	20,821	22,693	25,570	28,407
<b>Kansas</b>	15,757	15,789	15,781	18,069	16,684	17,827	16,998	17,740	18,417	19,891
<b>Kentucky</b>	9,045	9,598	9,859	10,225	10,541	11,038	11,510	12,298	11,754	12,771
<b>Louisiana</b>	13,862	13,931	13,889	13,907	8,405	8,250	8,367	8,734	9,385	10,679
<b>Michigan</b>	6,237	6,992	7,152	7,234	7,642	7,957	8,282	8,524	9,009	9,444
<b>Mississippi</b>	640	648	665	765	913	992	1,151	1,284	1,469	1,574
<b>Montana</b>	3,389	3,531	3,862	4,115	4,419	4,603	4,864	5,299	5,716	6,200
<b>Nebraska</b>	90	100	108	99	102	104	108	112	115	117
<b>New Mexico</b>	21,010	21,512	22,225	23,213	24,506	25,454	26,687	28,160	29,723	31,246
<b>New York</b>	5,601	5,638	5,722	5,713	6,120	5,544	6,517	6,707	6,661	6,764
<b>North Dakota</b>	87	83	82	92	100	97	111	133	208	371
<b>Ohio</b>	22,568	21,619	20,661	22,011	22,585	22,426	22,613	22,212	22,151	23,123
<b>Oklahoma</b>	24,094	24,633	25,200	26,297	27,829	29,077	30,551	32,214	34,081	36,358
<b>Oregon</b>	20	20	21	18	18	16	16	16	14	13
<b>South Dakota</b>	58	56	56	58	58	58	58	60	60	62
<b>Texas</b>	57,692	59,072	59,760	61,388	64,760	66,747	70,056	74,550	79,879	86,272
<b>Utah</b>	1,591	1,812	2,060	2,353	2,792	3,118	3,392	3,715	4,171	4,781
<b>West Virginia</b>	38,283	40,298	39,429	29,977	39,465	40,846	39,763	41,309	44,172	41,364
<b>Wyoming</b>	5,467	6,119	7,470	11,115	15,705	19,269	21,099	23,749	26,475	29,875
<b>Federal Offshore</b>	4,789	4,645	4,606	4,628	4,672	4,374	4,277	4,137	3,878	3,367
<b>TOTAL U.S.</b>	<b>251,507</b>	<b>257,517</b>	<b>262,534</b>	<b>266,501</b>	<b>284,289</b>	<b>296,141</b>	<b>306,878</b>	<b>323,893</b>	<b>344,095</b>	<b>369,410</b>

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.

## CRUDE OIL PRODUCTION

<i>(thous. bbls.)</i>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>
<b>Alabama</b>	8,787	7,453	6,406	5,983	5,415	5,163	4,970	4,662	5,197	5,276
<b>Alaska</b>	472,957	429,232	383,199	355,149	351,466	359,496	362,371	335,740	335,740	269,150
<b>Arizona</b>	79	74	62	55	58	61	45	50	48	53
<b>Arkansas</b>	7,878	7,093	6,187	6,454	6,873	6,470	6,586	5,845	5,388	5,292
<b>California</b>	285,047	284,232	273,222	271,027	260,545	255,195	247,393	239,485	228,811	222,874
<b>Colorado</b>	17,990	16,668	13,971	13,884	13,209	12,771	12,682	12,014	11,764	11,357
<b>Florida</b>	6,262	5,938	4,888	4,624	4,406	3,644	3,263	2,875	2,585	2,349
<b>Illinois</b>	13,514	12,807	11,274	10,906	10,198	11,127	11,707	10,699	8,899	10,324
<b>Indiana</b>	2,399	2,179	1,962	2,035	2,073	1,969	1,870	1,729	1,595	1,714
<b>Kansas</b>	41,211	36,644	34,084	34,238	33,957	33,056	33,711	33,802	33,897	35,621
<b>Kentucky</b>	1,587	1,372	1,459	1,545	1,490	1,381	1,347	1,210	1,215	1,181
<b>Louisiana</b>	94,694	90,606	80,263	75,860	71,204	60,626	58,658	56,983	50,835	49,443
<b>Michigan</b>	6,395	7,360	6,846	7,502	7,070	6,583	6,230	5,763	5,744	5,686
<b>Mississippi</b>	19,648	19,620	16,389	18,564	18,040	16,781	15,678	15,635	16,402	16,103
<b>Montana</b>	16,254	16,688	15,346	15,719	16,172	16,940	19,309	24,674	32,655	36,027
<b>Nebraska</b>	3,315	3,166	2,666	2,953	2,911	2,746	2,810	2,520	2,405	2,297
<b>Nevada</b>	974	799	706	621	571	553	492	463	446	426
<b>New Mexico</b>	67,926	63,591	59,667	61,659	60,957	58,293	57,004	56,723	54,530	53,661
<b>New York</b>	0	0	0	0	0	0	94	110	92	188
<b>North Dakota</b>	35,334	35,071	32,360	32,042	30,653	29,876	28,413	30,142	34,092	36,763
<b>Ohio</b>	5,842	5,163	4,563	4,935	5,532	4,917	4,521	4,264	4,250	4,372
<b>Oklahoma</b>	75,990	71,992	65,297	62,930	61,248	58,543	56,770	54,899	52,288	53,947
<b>Oregon</b>	0	0	0	0	0	0	0	0	0	0
<b>South Dakota</b>	1,335	1,208	1,100	1,162	1,246	1,209	1,239	1,356	1,415	1,394
<b>Texas</b>	490,861	459,255	408,993	400,930	380,943	365,891	359,907	351,459	347,614	346,079
<b>Utah</b>	17,085	17,042	14,560	14,156	13,913	12,610	12,089	13,718	15,298	15,965
<b>West Virginia</b>	691	627	533	538	706	571	768	586	676	788
<b>Wyoming</b>	64,279	58,893	52,901	52,987	48,963	46,020	43,174	41,689	41,452	42,287
<b>Federal Offshore</b>	394,332	415,456	454,621	470,192	473,252	496,663	505,364	476,795	427,167	431,321
<b>TOTAL U.S.</b>	<b>2,152,667</b>	<b>2,070,229</b>	<b>1,953,524</b>	<b>1,928,649</b>	<b>1,883,071</b>	<b>1,869,155</b>	<b>1,858,465</b>	<b>1,785,890</b>	<b>1,700,805</b>	<b>1,661,939</b>
<b>DAILY AVG.</b>	<b>6,452</b>	<b>6,252</b>	<b>5,881</b>	<b>5,822</b>	<b>5,801</b>	<b>5,746</b>	<b>5,681</b>	<b>5,419</b>	<b>5,178</b>	<b>4,553</b>

Source: IHS.

Notes: Daily Average derived from EIA data.

CRUDE OIL PRODUCTION

# NATURAL GAS PRODUCTION

(MMcf)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	427,006	428,112	415,442	396,775	381,831	370,977	355,701	324,437	301,634	290,530
<b>Arizona</b>	397	404	333	281	239	236	183	218	154	522
<b>Arkansas</b>	166,023	152,174	146,407	149,085	149,662	147,897	153,236	170,222	182,452	192,991
<b>California</b>	76,204	78,588	90,546	86,347	89,748	78,277	83,695	75,362	81,952	90,504
<b>Colorado</b>	616,398	673,310	706,407	758,839	803,229	912,289	997,085	1,062,396	1,120,614	1,217,865
<b>Kansas</b>	690,603	612,428	574,048	528,307	490,685	464,540	431,149	405,594	386,067	378,032
<b>Kentucky</b>	70,077	72,949	75,096	76,073	77,031	81,344	83,452	85,668	79,419	85,840
<b>Louisiana</b>	1,448,720	1,387,931	1,310,820	1,322,815	1,371,071	1,261,846	1,252,126	1,266,290	1,219,382	1,290,156
<b>Michigan</b>	244,858	247,144	227,506	215,038	203,038	192,482	178,082	170,023	161,614	159,295
<b>Mississippi</b>	119,636	119,764	120,227	110,869	132,500	142,950	157,847	170,157	183,103	206,269
<b>Montana</b>	48,585	52,105	55,197	64,740	74,416	79,235	78,092	87,046	91,456	93,199
<b>Nebraska</b>	1,114	1,209	1,021	861	871	894	1,183	1,217	939	898
<b>New Mexico</b>	1,352,312	1,400,987	1,454,198	1,461,998	1,466,020	1,412,648	1,375,603	1,372,580	1,358,029	1,352,226
<b>New York</b>	16,822	17,034	17,148	18,476	30,181	36,252	35,725	45,785	53,535	39,741
<b>North Dakota</b>	16,023	16,108	13,732	12,896	14,744	14,485	12,823	13,329	13,150	17,216
<b>Ohio</b>	86,329	87,785	74,411	74,125	72,225	70,426	68,428	66,562	60,451	62,021
<b>Oklahoma</b>	1,474,597	1,417,037	1,393,706	1,433,317	1,448,236	1,396,439	1,412,925	1,446,878	1,486,872	1,557,944
<b>Oregon</b>	1,381	1,263	1,555	1,596	1,115	840	734	468	457	624
<b>South Dakota</b>	689	760	685	598	538	510	523	509	428	438
<b>Texas</b>	4,819,180	4,854,011	4,715,593	4,869,777	4,940,417	4,886,656	4,962,056	5,072,699	5,319,815	5,647,050
<b>Utah</b>	230,900	253,950	239,524	244,989	265,032	260,714	257,510	264,789	281,368	321,626
<b>West Virginia</b>	168,619	172,312	218,565	161,940	190,798	194,328	183,091	195,084	215,145	205,051
<b>Wyoming</b>	1,000,235	1,045,758	1,118,077	1,266,885	1,390,353	1,539,308	1,636,903	1,735,410	1,839,625	1,948,640
<b>Fed. Offshore</b>	4,576,487	4,406,420	4,316,714	4,177,882	4,278,528	3,829,757	3,715,894	3,355,752	2,594,879	2,376,086
<b>TOTAL U.S.</b>	<b>17,653,194</b>	<b>17,499,544</b>	<b>17,286,958</b>	<b>17,434,509</b>	<b>17,872,507</b>	<b>17,375,334</b>	<b>17,434,045</b>	<b>17,388,474</b>	<b>17,250,875</b>	<b>17,637,563</b>

Source: IHS. Data not available for certain states.

\*Alaska data is not included as produced natural gas in re-injected in order to maintain reservoir pressure.

## PRODUCING MARGINAL OIL WELLS

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	317	317	307	295	305	300	304	320	387	320
<b>Alaska</b>	90	128	95	101	136	145	151	140	144	154
<b>Arizona</b>	24	26	27	25	24	22	23	19	22	24
<b>Arkansas</b>	2,107	1,920	1,871	2,002	5,334	4,141	2,427	1,910	1,925	2,259
<b>California</b>	28,720	29,484	28,803	30,194	31,274	31,314	31,770	33,010	34,338	36,126
<b>Colorado</b>	4,594	4,461	4,437	4,504	4,454	4,455	4,344	4,384	4,334	4,318
<b>Florida</b>	16	12	11	9	7	13	33	11	15	8
<b>Illinois</b>	6,414	5,848	5,463	5,500	5,102	5,166	5,107	5,148	4,964	5,269
<b>Indiana</b>	1,344	1,212	1,124	1,142	1,114	1,108	1,043	1,051	995	1,061
<b>Kansas</b>	46,631	44,914	41,825	41,716	41,141	40,933	40,607	39,386	39,250	39,543
<b>Kentucky</b>	1,274	1,107	1,078	1,060	1,034	995	981	965	947	994
<b>Louisiana</b>	16,699	15,633	15,205	14,894	15,737	15,377	15,587	15,129	15,288	15,671
<b>Michigan</b>	594	2,120	2,240	3,306	3,520	3,386	3,502	3,508	3,665	3,617
<b>Mississippi</b>	926	948	919	864	867	793	822	850	883	964
<b>Montana</b>	2,846	2,786	2,733	2,810	3,465	2,714	2,731	2,817	2,853	2,938
<b>Nebraska</b>	1,397	1,335	1,199	1,190	1,172	1,154	1,140	1,177	1,157	1,181
<b>Nevada</b>	42	39	32	35	38	39	42	40	45	45
<b>New Mexico</b>	14,774	14,954	14,727	15,324	15,893	15,916	16,181	16,602	17,114	17,759
<b>New York</b>	NA	NA	NA	NA	NA	NA	2,249	2,164	1,966	2,073
<b>North Dakota</b>	2,119	2,053	2,019	2,035	2,085	2,819	2,163	2,412	2,164	2,146
<b>Ohio</b>	14,922	14,035	13,809	14,812	15,251	15,762	15,162	15,308	15,360	15,570
<b>Oklahoma</b>	64,411	61,599	59,045	56,384	56,346	53,846	49,700	48,542	47,937	48,234
<b>South Dakota</b>	58	58	57	57	54	52	61	64	75	71
<b>Texas</b>	156,915	153,113	145,466	146,200	145,415	142,031	139,807	138,498	138,295	140,644
<b>Utah</b>	1,263	1,252	1,288	1,315	1,360	1,421	1,442	1,582	1,756	1,979
<b>West Virginia</b>	1,909	1,787	1,456	1,143	1,544	2,016	1,201	1,722	1,480	1,689
<b>Wyoming</b>	9,046	9,020	8,997	9,248	9,360	9,237	9,355	9,473	9,911	10,520
<b>Federal Offshore</b>	691	678	599	630	669	707	640	648	755	621
<b>TOTAL U.S.</b>	<b>380,143</b>	<b>370,838</b>	<b>354,832</b>	<b>356,795</b>	<b>362,701</b>	<b>355,862</b>	<b>348,575</b>	<b>346,876</b>	<b>348,021</b>	<b>355,794</b>

Source: IHS.

Notes: A marginal oil well is defined as a well producing 15 barrels/day or less.

\*Totals may not add due to rounding.

PRODUCING MARGINAL OIL WELLS

## MARGINAL OIL WELL PRODUCTION

(thous. bbls.)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	759	731	709	703	748	752	754	740	809	706
<b>Alaska</b>	136	257	176	185	252	288	243	264	193	326
<b>Arizona</b>	40	40	30	30	39	34	32	24	37	40
<b>Arkansas</b>	3,068	2,667	2,910	3103	4,095	3,212	2,881	3,042	3,046	2,883
<b>California</b>	59,565	59,951	58,766	62,439	63,431	62,603	62,889	64,825	66,663	69,591
<b>Colorado</b>	4,083	3,831	3,591	3,768	3,881	4,212	4,199	4,188	4,028	3,970
<b>Florida</b>	31	23	20	23	20	35	46	27	25	20
<b>Illinois</b>	6,499	5,884	5,507	5,551	5,068	5,227	5,267	5,104	4,249	5,153
<b>Indiana</b>	1,386	1,255	1,149	1,186	1,178	1,102	1,063	1,020	916	1,085
<b>Kansas</b>	30,527	27,114	26,276	25,835	25,504	25,250	25,016	24,607	24,541	25,250
<b>Kentucky</b>	912	847	793	804	799	753	698	701	677	671
<b>Louisiana</b>	12,912	11,562	10,702	10,617	10,342	10,043	9,773	9,547	10,029	9,494
<b>Michigan</b>	1,205	1,753	1,769	3,304	3,460	3,367	3,374	3,427	3,443	3,297
<b>Mississippi</b>	2,134	2,176	1,913	1,997	1,994	1,855	1,966	2,010	2,121	2,202
<b>Montana</b>	3,362	3,331	3,223	3,413	3,457	3,344	3,350	3,352	3,508	3,519
<b>Nebraska</b>	2,518	2,228	2,010	1,981	1,857	1,826	1,777	1,842	1,711	1,676
<b>Nevada</b>	77	84	60	71	89	92	90	91	103	117
<b>New Mexico</b>	19,957	19,876	19,574	20,064	20,549	20,516	20,825	21,045	21,788	22,253
<b>New York</b>	NA	NA	NA	NA	NA	NA	94	110	92	188
<b>North Dakota</b>	4,791	4,459	4,318	4,572	4,658	4,648	4,815	4,531	4,601	4,710
<b>Ohio</b>	4,383	3,918	3,692	4,042	4,364	4,152	3,871	3,669	3,716	3,709
<b>Oklahoma</b>	48,470	44,715	41,612	41,413	41,037	39,526	37,636	36,618	34,834	35,018
<b>South Dakota</b>	175	172	164	198	194	166	208	217	229	212
<b>Texas</b>	165,124	157,315	150,271	153,498	151,564	147,152	145,505	142,581	142,740	145,308
<b>Utah</b>	2,743	2,682	2,743	2,872	2,875	3,010	3,110	3,391	3,908	4,163
<b>West Virginia</b>	428	402	317	330	351	370	343	384	422	463
<b>Wyoming</b>	14,181	13,752	13,494	13,785	13,611	13,344	13,383	13,289	13,448	13,316
<b>Federal Offshore</b>	1,557	1,583	1,351	1,398	1,574	1,675	1,527	1,528	1,889	1,372
<b>TOTAL U.S.</b>	<b>391,023</b>	<b>372,603</b>	<b>357,140</b>	<b>367,182</b>	<b>366,993</b>	<b>358,554</b>	<b>354,735</b>	<b>352,166</b>	<b>353,755</b>	<b>360,708</b>

Source: IHS.

Notes: Totals may not add due to rounding.

MARGINAL OIL WELL PRODUCTION



## PRODUCING MARGINAL NATURAL GAS WELLS

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	1,777	1,834	1,928	2,199	2,403	2,590	2,889	3,187	3,639	4,165
<b>Arizona</b>	3	2	3	3	3	5	2	2	2	2
<b>Arkansas</b>	1,709	1,827	1,814	2,030	2,155	2,216	2,387	2,526	2,750	2,888
<b>California</b>	693	580	617	677	667	681	683	706	765	835
<b>Colorado</b>	8,091	8,034	12,459	12,674	13,360	13,742	14,725	16,097	18,525	20,404
<b>Kansas</b>	7,379	7,894	8,320	8,948	9,863	10,657	11,858	13,417	15,038	17,185
<b>Kentucky</b>	8,881	9,444	9,684	10,074	10,405	10,868	11,329	12,129	11,616	12,617
<b>Louisiana</b>	9,926	10,056	10,055	10,023	4,339	4,168	4,220	4,327	4,646	4,851
<b>Michigan</b>	482	562	563	609	737	821	892	956	1,039	1,122
<b>Mississippi</b>	286	290	296	388	447	506	684	806	932	1,063
<b>Montana</b>	3,086	3,206	3,447	3,636	3,854	4,002	4,262	4,536	4,790	5,276
<b>Nebraska</b>	84	85	87	87	89	92	95	98	101	103
<b>New Mexico</b>	12,996	13,159	13,374	14,006	14,847	15,598	16,482	17,650	19,194	20,461
<b>New York</b>	5,550	5,564	5,653	5,645	6,041	5,487	6,155	6,416	6,426	6,512
<b>North Dakota</b>	67	67	65	68	69	65	78	82	144	244
<b>Ohio</b>	21,958	20,976	20,048	21,400	22,082	21,917	22,096	21,689	21,573	22,268
<b>Oklahoma</b>	13,611	14,318	15,054	16,118	17,462	18,785	20,134	21,455	23,151	24,955
<b>Oregon</b>	12	12	12	10	9	9	10	11	11	10
<b>South Dakota</b>	55	54	54	56	58	57	57	59	60	62
<b>Texas</b>	33,799	34,688	35,811	36,844	39,069	40,295	42,002	44,656	47,307	50,964
<b>Utah</b>	745	854	976	1,055	1,270	1,459	1,648	1,804	2,107	2,386
<b>West Virginia</b>	37,601	39,699	38,724	29,366	38,704	40,053	38,844	40,452	43,242	40,544
<b>Wyoming</b>	1,706	1,959	2,807	4,671	7,160	9,587	11,139	13,474	15,513	18,043
<b>Federal Offshore</b>	661	668	687	739	771	818	809	796	890	723
<b>TOTAL U.S.*</b>	<b>170,519</b>	<b>175,184</b>	<b>181,877</b>	<b>180,615</b>	<b>195,123</b>	<b>203,692</b>	<b>212,711</b>	<b>226,561</b>	<b>243,465</b>	<b>262,168</b>

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.

PRODUCING MARGINAL NATURAL GAS WELLS

## MARGINAL NATURAL GAS PRODUCTION

(Mmcf)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	26,995	28,068	30,121	33,921	37,297	39,807	44,565	47,877	53,488	60,255
<b>Arizona</b>	37	4	35	25	4	60	37	28	30	26
<b>Arkansas</b>	23,251	24,862	25,602	28,215	28,948	30,432	32,364	33,641	36,326	38,001
<b>California</b>	9,158	7,406	7,896	7,831	8,547	8,441	8,642	8,986	9,566	10,121
<b>Colorado</b>	103,071	100,311	126,128	129,869	141,830	153,960	172,625	195,674	219,087	243,647
<b>Kansas</b>	99,001	111,463	118,887	129,410	146,535	158,854	178,136	201,997	222,426	240,025
<b>Kentucky</b>	62,931	66,065	67,591	69,400	71,156	74,072	75,513	78,805	73,076	78,304
<b>Louisiana</b>	39,208	40,645	39,732	40,557	38,425	38,934	39,254	40,083	43,650	47,268
<b>Michigan</b>	7,392	8,467	8,766	9,283	10,538	11,686	12,851	13,559	14,376	15,088
<b>Mississippi</b>	3,965	4,112	4,282	5,837	7,077	8,684	11,210	12,783	13,015	14,679
<b>Montana</b>	26,496	27,769	28,823	30,391	32,251	35,138	37,128	37,963	40,661	43,617
<b>Nebraska</b>	1,078	1,040	908	744	743	755	793	784	700	774
<b>New Mexico</b>	167,044	167,586	173,320	181,395	189,490	198,823	210,356	229,209	247,151	261,711
<b>New York</b>	14,494	13,726	12,800	12,181	12,340	10,976	11,002	10,874	10,842	10,828
<b>North Dakota</b>	367	451	432	430	429	478	663	731	1,376	2,670
<b>Ohio</b>	64,888	61,082	54,295	56,226	57,397	57,026	55,378	53,812	50,307	52,003
<b>Oklahoma</b>	178,628	186,744	195,208	211,217	225,276	239,475	256,811	269,245	286,833	303,692
<b>Oregon</b>	123	68	125	154	79	112	113	117	138	158
<b>South Dakota</b>	581	668	600	523	538	473	483	466	428	438
<b>Texas</b>	387,382	400,261	410,614	421,242	445,495	456,406	479,643	509,051	538,896	583,968
<b>Utah</b>	11,302	12,728	14,089	15,922	19,724	21,985	25,297	27,683	30,898	35,126
<b>West Virginia</b>	143,483	151,707	159,474	126,932	157,127	162,879	152,036	161,214	175,204	167,499
<b>Wyoming</b>	23,7111	27,805	36,222	56,571	87,966	110,593	136,750	158,345	174,046	187,793
<b>Federal Offshore</b>	7,630	7,710	8,277	9,158	10,033	10,078	9,897	9,722	11,030	8,802
<b>TOTAL U.S.*</b>	<b>1,394,886</b>	<b>1,443,215</b>	<b>1,516,247</b>	<b>1,568,617</b>	<b>1,719,644</b>	<b>1,820,473</b>	<b>1,942,122</b>	<b>2,093,201</b>	<b>2,253,603</b>	<b>2,459,875</b>

Source: IHS.

Notes: Totals may not add due to rounding.

\*Row may not total because it includes Pacific Coastal wells.

## COST OF DRILLING AND EQUIPPING WELLS '06

COST OF DRILLING AND EQUIPPING WELLS '06

State	No. of Wells Drilled	Footage Drilled	Depth per Well (ft.)	Total Cost	Cost per Well	Cost per Foot (\$)
Alabama	440	1,523,127	3,462	386,886,000	879,286	254.01
Alaska	132	970,519	7,352	3,199,617,000	24,239,523	3,296.81
Arizona	1	7,000	7,000	1,022,000	1,022,000	146
Arkansas	495	2,881,767	5,822	589,554,000	1,191,018	204.58
California	2,494	6,699,771	2,686	2,843,060,000	1,139,960	424.35
Colorado	3,003	17,258,154	5,747	6,305,991,000	2,099,897	365.39
Florida	-	-	-	-	-	-
Illinois	478	1,096,943	2,295	216,939,000	453,847	197.77
Indiana	117	196,156	1,677	47,271,000	404,026	240.99
Kansas	3,161	9,382,145	2,968	930,897,000	294,494	99.22
Kentucky	1,294	3,581,272	2,768	417,329,000	322,511	116.53
Louisiana	1,633	14,384,545	8,809	6,976,491,000	4,272,193	485
Michigan	558	1,037,470	1,859	492,154,000	881,996	474.38
Mississippi	293	2,134,313	7,284	902,948,000	3,081,734	423.06
Montana	1,118	5,209,601	4,660	1,850,978,000	1,655,615	355.30
Nebraska	65	280,649	4,318	37,652,000	579,262	134.16
Nevada	1	7,400	7,400	1,080,000	1,080,000	145.95
New Mexico	2,028	12,078,134	5,956	2,550,918,000	1,257,849	211.20
New York	242	650,480	2,688	95,149,000	393,178	146.28
North Dakota	487	4,288,452	8,806	1,500,504,000	3,081,117	349.89
Ohio	684	2,638,475	3,857	233,586,000	341,500	88.53
Oklahoma	3,995	25,489,808	6,380	6,917,851,000	1,731,627	271.40
Pennsylvania	4,260	14,671,156	3,444	1,391,908,000	326,739	94.87
South Dakota	25	125,342	5,014	48,548,000	1,941,920	387.32
Tennessee	285	827,354	2,903	96,662,000	339,165	116.83
Texas	13,409	105,721,057	7,884	34,569,181,000	2,578,058	326.98
Utah	1,005	7,604,400	7,567	2,879,064,000	2,864,740	378.61
Virginia	545	1,503,189	2,758	172,254,000	316,062	114.59
Washington	-	-	-	-	-	-
West Virginia	1,791	7,393,289	4,128	643,971,000	359,559	87.10
Wyoming	4,134	17,220,244	4,166	9,187,238,000	2,222,360	533.51
Federal Offshore	638	6,920,312	10,847	24,246,180,000	38,003,417	3,503.59
<b>TOTAL U.S.</b>	<b>48,811</b>	<b>273,782,524</b>	<b>5,609</b>	<b>109,733,000,000</b>	<b>2,248,118</b>	<b>400.80</b>
Exploratory	4,523	27,270,664	6,135	14,584,389,220	3,224,495	525.55
Developmental	44,288	246,031,860	5,555	95,148,494,925	2,148,404	386.73

Source: IHS

# CRUDE OIL REVENUES

(thous. \$.)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	163,262	90,032	107,044	165,310	125,520	120,763	143,981	180,839	418,677	475,657
<b>Alaska</b>	7,018,682	3,635,595	4,828,307	8,438,340	6,449,401	7,020,957	8,664,291	11,136,496	14,890,978	15,425,817
<b>Arizona</b>	1,440	865	996	1,470	1,266	1,319	1,198	1,843	2,605	3,383
<b>Arkansas</b>	138,495	78,732	98,311	174,129	149,969	139,105	174,990	214,336	322,656	358,121
<b>California</b>	4498,042	2,714,416	3,803,250	6,699,787	5,210,900	5,532,628	6,506,436	8,221,520	11,113,988	12,240,536
<b>Colorado</b>	342,350	209,350	242,676	400,553	327,847	322,979	380,589	485,125	1,263,025	1,492,282
<b>Florida</b>	122,986	60,746	85,540	134,281	NA	NA	NA	NA	NA	NA
<b>Illinois</b>	258,253	163,673	195,829	306,895	242,304	265,268	340,674	414,479	522,598	616,283
<b>Indiana</b>	44,933	27,216	33,962	56,797	48,633	46,134	53,071	66,013	81,112	102,665
<b>Kansas</b>	767,761	446,690	582,155	964,142	800,027	780,452	966,831	1,324,362	1,806,486	2,165,442
<b>Kentucky</b>	28,518	16,011	24,336	40,896	33,570	31,059	36,652	44,552	125,356	136,492
<b>Louisiana</b>	1,820,019	1,140,730	1,411,826	2,188,561	1,734,529	1,496,250	1,777,924	2,283,879	4,079,856	4,745,055
<b>Michigan</b>	119,906	91,190	113,849	210,956	160,418	155,885	181,791	225,564	297,815	310,112
<b>Mississippi</b>	332,837	202,675	252,718	486,934	381,185	371,028	430,518	578,964	877,318	1,030,078
<b>Missouri</b>	2,124	1,068	1,436	2,695	1,833	2,045	2,169	3,269	4,239	4,988
<b>Montana</b>	276,318	188,241	253,823	437,303	374,544	385,554	553,396	950,689	1,730,144	2,055,692
<b>Nebraska</b>	60,002	36,409	45,882	82,595	49,865	64,861	80,450	96,818	126,393	133,622
<b>Nevada</b>	14,610	9,005	9,792	14,084	13,544	9,904	12,074	14,807	19,078	NA
<b>New Mexico</b>	1,291,953	785,985	1,041,786	1,775,779	1,387,381	1,405,444	1,682,758	2,226,378	3,205,274	3,693,163
<b>New York*</b>	NA	NA	NA	NA	NA	NA	2,718	4,334	10,764	20,259
<b>North Dakota*</b>	622,938	399,459	540,412	903,264	691,225	721,505	831,649	1,184,581	1,867,871	2,262,554
<b>Ohio*</b>	103,812	62,989	74,879	135,663	136,530	111,173	127,402	163,183	302,212	340,989
<b>Oklahoma</b>	1,447,610	916,458	1,160,328	1,830,004	1,520,175	1,433,718	1,687,204	2,193,215	3,390,468	3,965,895
<b>Oregon</b>	0	2	6	0	0	0	0	0	0	0
<b>Pennsylvania</b>	24,803	27,039	27,180	43,200	40,208	55,512	71,780	100,200	215,388	232,136
<b>South Dakota*</b>	23,763	14,846	18,546	32,745	27,362	28,968	35,857	52,070	74,405	72,278
<b>Tennessee</b>	6,334	3,226	5,496	9,093	7,708	6,020	8,260	13,162	14,765	10,955
<b>Texas</b>	9,159,466	5,639,651	7,075,579	11,466,598	8,917,876	8,697,229	10,484,091	13,633,095	20,395,845	24,353,558
<b>Utah</b>	317,268	213,366	257,566	403,871	335,164	301,001	349,130	539,803	898,821	1,069,227
<b>Virginia</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>West Virginia</b>	12,134	7,493	8,773	14,591	15,779	12,876	21,550	22,491	84,011	110,309
<b>Wyoming</b>	1,119,097	630,155	871,279	1,424,820	1,055,153	1,010,599	1,149,724	1,463,284	2,355,694	2,817,138
<b>TOTAL U.S.</b>	<b>37,090,452</b>	<b>22,503,389</b>	<b>30,396,833</b>	<b>51,533,501</b>	<b>40,822,345</b>	<b>42,074,679</b>	<b>51,219,295</b>	<b>65,667,175</b>	<b>95,034,530</b>	<b>111,158,239</b>

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. \$.)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	1,140,106	946,128	963,825	1,583,132	1,615,145	1,291,000	2,109,307	2,160,750	2,751,780	2,166,685
<b>Alaska**</b>	852,326	615,975	634,265	807,831	938,166	986,831	1,180,314	1,613,895	2,314,590	2,574,952
<b>Arizona</b>	953	760	693	984	985	614	792	1,116	1,596	3,593
<b>Arkansas</b>	669,073	596,522	600,269	779,715	746,813	655,184	792,230	966,861	1,383,270	1,242,649
<b>California</b>	183,652	154,818	213,689	415,329	621,954	228,569	421,823	425,795	2,336,396	2,039,402
<b>Colorado</b>	1,374,568	1,279,289	1,539,967	2,784,939	3,084,399	2,198,616	4,526,766	5,535,083	8,418,829	7,361,265
<b>Florida</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Illinois</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Indiana</b>	1,147	1,285	1,872	3,155	3,490	4,071	7,920	21,426	28,560	17,555
<b>Kansas</b>	1,415,736	1,041,128	1,033,286	1,695,865	1,795,907	1,212,449	1,866,875	2,003,634	2,455,761	2,081,557
<b>Kentucky</b>	1,886,145	174,348	155,449	240,391	368,208	244,845	378,872	450,614	634,718	841,676
<b>Louisiana</b>	3,418,979	2,803,621	2,910,020	4,867,959	5,470,573	4,037,907	7,061,991	7,547,088	11,301,539	9,432,555
<b>Maryland</b>	263	164	49	128	133	132	216	213	342	366
<b>Michigan</b>	536,239	437,445	402,686	524,693	704,542	415,761	714,109	654,589	1,383,894	NA
<b>Mississippi</b>	206,970	170,065	195,970	365,868	520,725	437,427	809,755	992,015	451,962	414,032
<b>Missouri</b>	9	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Montana</b>	77,250	79,721	92,731	183,862	232,178	189,372	291,283	392,577	709,021	624,033
<b>Nebraska</b>	1,704	1,572	1,389	1,946	1,881	1,359	3,750	3,919	4,922	NA
<b>New Mexico</b>	2,380,069	2,465,737	3,068,358	5,014,653	5,702,818	3,785,897	6,272,750	6,821,723	11,368,097	9,944,998
<b>New York*</b>	43,064	43,607	37,040	69,285	150,905	109,844	206,491	319,579	429,300	399,137
<b>North Dakota</b>	34,610	34,471	31,858	50,810	52,046	39,544	45,265	76,375	441,479	360,380
<b>Ohio*</b>	233,088	258,966	180,819	300,948	327,902	318,326	403,725	442,637	754,213	668,941
<b>Oklahoma</b>	3,421,065	2,508,155	2,857,097	5,202,941	5,836,391	4,105,531	7,022,237	7,986,767	11,819,425	10,674,385
<b>Oregon</b>	3,024	3,006	3,919	4,293	4,081	3,335	3,288	1,821	1,930	2,745
<b>Pennsylvania</b>	253,600	387,041	539,826	346,500	446,209	538,098	NA	NA	NA	NA
<b>South Dakota</b>	1,440	1,877	1,459	2,129	1,840	1,505	2,605	2,794	7,380	6,163
<b>Tennessee</b>	4,310	3,247	3,238	5,031	4,140	6,820	10,701	12,441	21,010	12,157
<b>Texas</b>	11,951,566	9,999,263	10,893,020	19,138,224	20,354,518	15,441,833	25,703,450	29,573,835	39,836,828	36,390,677
<b>Utah</b>	429,474	439,334	462,281	803,564	932,913	518,821	1,058,366	1,387,494	2,156,757	1,983,828
<b>Virginia*</b>	148,535	126,401	179,756	284,034	329,961	256,232	398,975	NA	NA	NA
<b>West Virginia</b>	443,468	408,379	653,509	524,686	786,088	668,488	794,615	918,846	1,563,234	1,617,050
<b>Wyoming</b>	242,569	1,861,129	2,202,612	4,231,396	4,852,332	4,156,132	6,760,409	8,607,634	11,245,715	10,624,776
<b>TOTAL U.S.</b>	<b>31,420,431</b>	<b>26,852,256</b>	<b>29,876,317</b>	<b>50,246,100</b>	<b>55,887,242</b>	<b>41,854,540</b>	<b>68,848,881</b>	<b>94,941,068</b>	<b>138,735,606</b>	<b>124,044,128</b>

Source: EIA price and production data used in addition to state data when EIA not available. Total does not include Federal Offshore. Alaska natural gas is reinjected.

## ABANDONMENTS

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Alabama	8	2	6	6	3	3	34	29	6	78
Arizona	0	0	0	0	0	0	0	0	0	0
Arkansas	138	97	77	116	43	42	108	69	51	73
California	1,919	1,392	1,046	1,615	1,469	2,452	2,501	1,629	1,558	1,999
Colorado	321	153	120	124	168	119	259	212	147	282
Illinois	518	802	590	647	689	710	659	554	547	853
Indiana	129	133	58	72	93	125	102	80	65	159
Kansas	1,765	1,480	2,025	614	1,614	1,722	2,270	1,473	1,225	1,318
Kentucky	166	233	179	232	202	237	312	263	206	503
Louisiana	785	750	620	605	760	731	1,500	898	584	750
Michigan	153	146	139	139	141	155	177	196	126	87
Mississippi	74	58	83	91	62	109	106	90	55	34
Missouri	251	2	4	12	1	4	12	4	4	11
Montana	45	124	136	178	135	65	169	113	58	227
Nebraska	66	90	66	67	83	100	81	55	54	15
New Mexico	397	206	105	121	203	217	263	752	449	420
New York	79	58	57	36	36	65	115	83	78	19
North Dakota	51	37	26	35	48	38	40	50	44	71
Ohio	335	243	183	211	216	183	500	572	201	577
Oklahoma	1,871	1,442	841	922	710	774	1,056	956	619	1,090
Pennsylvania	640	968	590	300	200	210	328	306	134	100
South Dakota	1	7	2	0	0	2	2	0	0	0
Tennessee	81	77	70	76	45	38	86	50	29	34
Texas	5,246	5,110	4,078	4,255	5,126	5,228	6,902	6,718	5,461	6,417
Utah	20	30	36	16	30	16	17	57	35	65
Virginia	0	0	0	0	0	0	60	45	0	98
West Virginia	100	84	80	78	50	46	327	335	30	285
Wyoming	14	188	10	120	107	228	241	517	211	635
<b>TOTAL U.S.</b>	<b>15,173</b>	<b>13,912</b>	<b>11,227</b>	<b>10,688</b>	<b>12,234</b>	<b>13,619</b>	<b>18,219</b>	<b>16,106</b>	<b>11,977</b>	<b>16,201</b>

Source: IOGCC.

Note: Oil and gas wells plugged and abandoned as of January 1, 2007. Estimated data for Colorado, Illinois, Pennsylvania, Tennessee and West Virginia.

## SEVERANCE AND PRODUCTION TAXES

<i>(thous. \$)</i>	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	67,526	55,078	37,899	68,341	107,024	53,235	92,695	101,184	132,299	177,280
<b>Alaska</b>	788,409	395,500	507,000	759,000	558,772	519,368	1,093,356	750,425	1,060,066	1,061,672
<b>Arizona</b>	5,952	6,398	6,060	7,026	6,510	8,377	8,377	9,899	10,022	7,979
<b>Arkansas</b>	6,872	4,371	4,616	9,476	9,546	6,608	8,355	9,802	15,078	15,078
<b>California</b>	174,044	157,652	194,606	215,696	239,921	189,306	214,473	188,753	268,796	328,876
<b>Colorado</b>	18,688	19,756	23,327	24,641	54,384	48,914	23,613	107,145	134,050	196,668
<b>Florida</b>	10,441	7,318	4,157	6,046	8,258	5,197	5,469	6,084	8,278	9,527
<b>Indiana</b>	599	550	502	653	572	567	590	845	1,119	1,215
<b>Kansas</b>	78,531	51,686	120,333	56,900	109,232	59,895	84,212	116,677	148,855	148,855
<b>Kentucky</b>	12,653	11,212	8,452	11,414	20,678	14,610	17,800	22,170	28,630	42,586
<b>Louisiana</b>	380,699	336,293	240,055	354,314	478,805	454,429	480,749	677,320	714,729	885,402
<b>Maryland</b>	2	1	1	1	2	1	1	1	3	3
<b>Michigan</b>	40,961	30,982	30,570	40,012	61,279	35,967	54,651	56,186	66,749	88,143
<b>Mississippi</b>	28,343	25,346	14,518	23,751	11,817	28,201	43,413	62,631	84,409	6,809
<b>Montana</b>	42,482	35,065	28,997	43,770	92,818	50,304	75,454	114,218	180,077	204,129
<b>Nebraska</b>	1,915	1,334	1,017	2,108	1,868	1,455	1,845	2,191	2,926	2,796
<b>Nevada</b>	283	74	50	62	62	56	248	45	43	41
<b>New Mexico</b>	372,600	375,800	227,200	345,300	355,370	479,109	571,862	737,200	926,884	1,169,270
<b>North Dakota</b>	53,500	39,200	35,402	71,275	66,800	62,300	66,846	73,914	157,500	166,146
<b>Ohio</b>	3,655	3,383	3,327	3,090	2,884	2,799	2,900	2,691	2,615	2,554
<b>Oklahoma</b>	413,576	360,285	253,039	410,412	745,236	417,103	600,980	701,156	875,653	1,168,597
<b>Oregon</b>	156	93	98	146	119	145	89	72	78	89
<b>South Dakota</b>	1,178	1,018	730	1,051	1,566	1,239	1,522	1,658	2,507	3,255
<b>Tennessee</b>	282	213	363	532	380	498	592	592	813	1,041
<b>Texas</b>	1,091,284	926,561	659,396	1,153,086	1,956,108	1,049,054	1,492,743	1,887,879	2,338,380	3,200,806
<b>Utah</b>	17,217	13,988	11,109	17,313	42,106	20,603	28,689	39,356	57,116	77,074
<b>West Virginia</b>	17,431	16,118	19,161	18,048	34,549	28,382	30,475	41,544	53,557	84,947
<b>Wyoming</b>	152,448	73,754	125,178	567,445	581,532	327,497	370,381	504,731	713,456	660,461
<b>TOTAL U.S.</b>	<b>3,781,727</b>	<b>2,949,029</b>	<b>2,557,163</b>	<b>4,210,909</b>	<b>5,548,198</b>	<b>3,863,352</b>	<b>5,372,380</b>	<b>6,216,369</b>	<b>7,984,690</b>	<b>9,711,306</b>

Source: Various state and industry contacts.

Notes: Figures include all state and local tax revenues. States vary on the use of fiscal (Arizona) or calendar year data. West Virginia data switched to FY in 2001.



## CRUDE OIL WELLHEAD PRICES

(\$/Bbl.)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Alabama</b>	18.58	12.08	16.71	27.63	23.18	23.39	28.97	38.79	53.26	63.16
<b>Alaska</b>	14.84	8.47	12.60	23.76	18.35	19.53	23.91	33.17	47.21	64.10
<b>Arizona*</b>	18.23	11.69	16.06	26.72	21.82	21.63	26.63	36.86	52.09	61.51
<b>Arkansas</b>	17.58	11.10	15.89	26.98	21.82	21.50	26.57	36.67	50.86	58.67
<b>California</b>	15.78	9.55	13.92	24.72	20.00	21.68	26.30	34.33	47.08	57.34
<b>Colorado</b>	19.03	12.56	17.37	28.85	24.82	25.29	30.71	40.38	55.34	63.80
<b>Florida</b>	19.64	10.23	17.50	29.04	NA	NA	NA	NA	NA	NA
<b>Illinois</b>	19.11	12.78	17.37	28.14	23.76	23.84	29.10	38.74	51.20	59.70
<b>Indiana</b>	18.73	12.49	17.31	27.91	23.46	23.43	28.38	38.18	51.02	59.31
<b>Kansas</b>	18.63	12.19	17.08	28.16	23.56	23.61	28.68	39.18	53.41	60.74
<b>Kentucky</b>	17.97	11.67	16.68	26.47	22.53	22.49	27.21	36.82	49.45	58.33
<b>Louisiana</b>	19.22	12.59	17.59	28.85	24.36	24.68	30.31	40.08	54.05	64.23
<b>Michigan</b>	18.75	12.39	16.63	28.12	22.69	23.68	29.18	39.14	53.67	60.89
<b>Mississippi</b>	16.94	10.33	15.42	26.23	21.13	22.11	27.46	37.03	49.58	59.35
<b>Missouri*</b>	18.63	11.48	15.61	28.37	20.37	21.53	26.45	37.15	49.87	57.34
<b>Montana</b>	17.00	11.28	16.54	27.82	23.16	22.76	28.66	38.53	52.66	56.69
<b>Nebraska</b>	18.10	11.50	17.21	27.97	23.67	23.62	28.63	38.42	52.38	57.77
<b>Nevada*</b>	15.00	11.27	13.87	22.68	17.13	17.91	24.54	31.98	42.68	58.30
<b>New Mexico</b>	19.02	12.36	17.46	28.80	23.72	24.11	29.52	39.25	52.84	61.74
<b>New York*</b>	18.49	11.46	16.18	28.60	22.76	24.92	28.91	39.40	54.64	63.51
<b>North Dakota</b>	17.63	11.39	16.70	28.19	23.55	24.15	29.27	39.30	52.38	56.69
<b>Ohio</b>	17.77	12.20	16.41	27.49	22.55	22.61	28.18	38.27	53.47	62.89
<b>Oklahoma</b>	19.05	12.73	17.77	29.08	24.68	24.49	29.72	39.95	54.46	63.11
<b>Pennsylvania</b>	18.79	13.67	18.49	28.80	24.82	24.86	29.60	39.48	54.47	64.02
<b>South Dakota</b>	17.80	12.29	16.86	28.18	23.89	23.96	28.94	38.40	50.65	51.85
<b>Tennessee*</b>	17.26	11.24	15.93	26.28	21.96	21.89	26.56	36.46	45.57	57.06
<b>Texas</b>	18.66	12.28	17.30	28.60	23.41	23.77	29.13	38.79	52.61	61.31
<b>Utah</b>	18.57	12.52	17.69	28.53	24.09	23.87	28.88	39.35	53.98	59.70
<b>Virginia*</b>	16.40	11.64	16.88	NA	NA	NA	26.23	NA	NA	NA
<b>West Virginia</b>	17.56	11.95	16.46	27.12	22.35	22.55	28.06	38.38	53.75	63.07
<b>Wyoming</b>	17.41	10.70	16.47	26.89	21.55	21.96	26.63	35.10	45.63	53.25
<b>TOTAL U.S.</b>	<b>17.23</b>	<b>10.87</b>	<b>15.56</b>	<b>26.72</b>	<b>21.84</b>	<b>22.51</b>	<b>27.56</b>	<b>36.77</b>	<b>50.28</b>	<b>59.69</b>

Source: Energy Information Administration and State Sources\*

Notes: Data represent average first purchase price of crude oil at the lease or wellhead.

## NATURAL GAS WELLHEAD PRICES

(\$/Mcf)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Alabama	2.67	2.21	2.32	3.99	4.23	3.48	5.93	6.66	9.28	7.57
Alaska	1.82	1.32	1.37	1.76	1.99	2.13	2.41	3.42	4.75	5.79
Arizona*	2.40	1.88	2.08	3.50	4.12	2.60	4.33	5.12	6.85	5.70
Arkansas	4.03	3.92	4.10	5.23	4.99	4.43	5.17	5.68	7.26	6.43
California	2.41	1.97	2.36	4.81	6.93	2.92	5.04	5.65	7.45	6.47
Colorado	2.23	1.90	2.18	3.67	3.84	2.41	4.54	5.21	7.43	6.12
Florida*	1.06	1.42	2.50	1.76	NA	NA	NA	NA	NA	NA
Illinois*	2.81	2.74	2.74	2.05	NA	NA	NA	NA	NA	NA
Indiana	2.18	2.09	2.19	3.51	3.28	3.11	5.41	6.30	9.11	6.01
Kansas	2.05	1.70	1.80	3.21	3.66	2.61	4.33	4.94	6.51	5.61
Kentucky	2.66	2.39	2.07	3.16	4.78	3.01	4.54	5.26	6.84	8.83
Louisiana	2.36	2.02	2.22	3.68	3.99	3.20	5.64	5.96	8.72	6.93
Maryland	2.23	2.60	2.73	3.75	4.15	5.98	4.50	6.25	7.43	7.63
Michigan	2.19	1.77	1.77	2.44	3.47	2.16	4.01	3.85	5.30	NA
Mississippi	1.73	1.42	1.63	3.30	3.93	3.06	5.13	5.83	8.54	6.84
Missouri	1.70	1.62	NA	NA	NA	NA	NA	NA	NA	NA
Montana	1.59	1.53	1.68	2.84	3.12	2.39	3.73	4.51	6.57	5.53
Nebraska	1.53	1.30	1.36	2.26	2.16	1.52	3.17	3.22	4.29	NA
New Mexico	1.76	1.76	2.11	3.43	3.89	2.68	4.56	4.97	6.91	6.18
New York	2.56	2.56	2.16	3.75	5.00	3.03	5.78	6.98	7.78	7.13
North Dakota	2.16	2.14	2.32	3.94	3.53	2.73	3.53	5.73	8.40	6.52
Ohio	2.70	2.95	2.43	4.06	4.54	4.52	5.90	6.65	9.03	7.75
Oklahoma	2.32	1.77	2.05	3.63	4.03	2.94	4.97	5.52	7.21	6.32
Oregon	2.19	2.38	2.52	2.69	3.66	3.97	4.48	3.89	4.25	4.42
Pennsylvania*	3.17	2.97	3.09	2.31	3.41	3.41	NA	NA	NA	NA
South Dakota	2.09	2.47	2.13	3.56	3.42	2.95	4.98	5.49	7.44	6.40
Tennessee	2.55	2.15	2.28	4.09	3.60	3.41	5.22	6.90	9.55	6.78
Texas	2.48	2.06	2.31	3.93	4.12	3.16	5.18	5.83	7.55	6.60
Utah	1.86	1.73	1.93	3.28	3.52	1.99	4.11	5.24	7.16	5.70
Virginia*	2.55	2.16	2.49	3.97	4.29	3.16	4.65	NA	NA	NA
West Virginia*	2.63	2.37	2.99	3.24	4.12	3.44	4.34	4.71	7.07	NA
Wyoming	2.42	1.78	1.97	3.34	3.49	2.70	4.13	4.96	6.86	5.85
<b>TOTAL U.S.</b>	<b>2.32</b>	<b>1.96</b>	<b>2.19</b>	<b>3.68</b>	<b>4.00</b>	<b>2.95</b>	<b>4.88</b>	<b>5.46</b>	<b>7.33</b>	<b>6.40</b>

Source: Energy Information Administration and State Sources\*

## REFINER ACQUISITION COST OF CRUDE OIL

REFINER ACQUISITION COST OF CRUDE OIL

(\$/Bbl.)	Domestic	Imported	Composite
1980	24.23	33.89	28.07
1981	34.33	37.05	35.24
1982	31.22	33.55	31.87
1983	28.87	29.30	28.99
1984	28.53	28.88	28.63
1985	26.66	26.99	26.75
1986	14.82	14.00	14.55
1987	17.76	18.13	17.90
1988	14.74	14.56	14.67
1989	17.87	18.08	17.97
1990	22.59	21.76	22.22
1991	19.33	18.70	19.06
1992	18.63	18.20	18.43
1993	16.67	16.14	16.41
1994	15.67	15.51	15.59
1995	17.33	17.14	17.23
1996	20.77	20.64	20.71
1997	19.61	18.53	19.04
1998	13.18	12.04	12.52
1999	17.90	17.26	17.51
2000	29.11	27.70	28.26
2001	24.33	22.00	22.95
2002	24.65	23.71	24.10
2003	29.82	27.71	28.53
2004	38.97	35.90	36.98
2005	52.94	48.86	50.24
2006	62.62	59.02	60.24

Source: Energy Information Administration

## RETAIL GASOLINE PRICES

(¢/gal.)	Excluding Taxes	Taxes	Pump Price
1983	95.4	28.7	124.1
1984	90.7	30.5	121.2
1985	91.2	29.0	120.2
1986	62.4	30.3	92.7
1987	66.9	27.9	94.8
1988	67.3	27.3	94.6
1989	75.6	26.5	102.1
1990	88.3	28.1	116.4
1991	79.7	34.3	114.0
1992	78.7	34.0	112.7
1993	75.9	34.9	110.8
1994	73.8	37.4	111.2
1995	76.5	38.2	114.7
1996	84.7	38.4	123.1
1997	83.9	39.5	123.4
1998	67.3	38.6	105.9
1999	78.1	38.4	116.5
2000	110.6	40.4	151.0
2001	103.2	42.9	146.1
2002	94.7	41.1	135.8
2003	115.6	43.5	159.1
2004	143.5	44.5	188.0
2005	182.9	46.6	229.5
2006	212.8	43.1	255.9

Source: Energy Information Administration.  
Pump price quoted for unleaded regular.

## WORLD CRUDE OIL RESERVES

WORLD CRUDE OIL RESERVES

(mill. bbls.)	United States	Canada	Latin America	Middle East	Africa	Asia Pacific	Western Europe	Eastern Europe & FSU	Total World
1990	26,501	5,783	121,091	662,598	59,892	50,242	14,476	58,855	999,113
1991	26,254	5,588	119,765	661,571	60,488	44,073	14,503	58,774	991,011
1992	24,682	5,292	123,811	661,791	61,872	44,572	15,829	59,193	997,042
1993	23,745	5,096	124,996	662,866	61,963	44,647	16,643	59,168	999,124
1994	22,957	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	115,160	739,205	114,073	33,366	14,965	99,992	1,317,447

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.

Year	Motor Gasoline	Kerosene	Fuel Oil		Average Of Four Products	Crude Oil (\$/bbl.)	
			Distillate (¢/gal.)	Residual			
1951	11.40	9.85	8.50	4.42	8.79	3.69	2.53
1952	11.38	9.90	8.52	3.84	8.62	3.62	2.53
1953	12.01	10.23	8.83	3.73	8.96	3.76	2.68
1954	11.66	10.40	8.94	3.97	8.88	3.73	2.78
1955	11.62	10.53	9.08	4.53	9.06	3.81	2.77
1956	11.75	10.99	9.45	5.30	9.43	3.96	2.79
1957	12.34	11.54	10.05	6.15	10.10	4.24	3.09
1958	11.74	10.96	9.39	4.82	9.27	3.89	3.01
1959	11.64	11.26	9.31	4.79	9.22	3.87	2.90
1960	11.61	11.17	8.79	4.88	9.15	3.84	2.88
1961	11.62	11.49	9.10	4.85	9.21	3.87	2.89
1962	11.52	11.42	9.11	4.78	9.13	3.84	2.90
1963	11.35	11.51	9.18	4.61	9.01	3.79	2.89
1964	11.27	10.93	8.65	4.50	8.83	3.71	2.88
1965	11.52	11.28	9.04	4.81	9.12	3.83	2.86
1966	11.59	11.49	9.09	4.73	9.15	3.84	2.88
1967	11.84	11.96	9.71	4.53	9.33	3.92	2.92
1968	11.55	12.03	9.84	4.30	9.14	3.84	2.94
1969	11.80	11.98	10.06	4.20	9.27	3.89	3.09
1970	12.33	12.43	10.45	6.14	10.20	4.28	3.18
1971	12.70	12.90	10.75	7.76	10.94	4.59	3.39
1972	12.70	12.87	10.61	7.60	10.87	4.57	3.39
1973	14.72	14.08	12.61	8.45	12.49	5.25	3.89
1974	25.53	24.02	22.57	20.43	23.48	9.86	6.87
1975	30.27	27.41	26.09	22.03	27.03	11.35	7.67
1976	33.82	31.67	30.38	21.66	29.55	12.41	8.19
1977	36.99	35.81	34.41	25.87	33.21	13.95	8.57
1978	39.22	37.23	35.66	23.00	33.72	14.16	9.00
1979	56.84	56.60	54.47	33.63	49.50	20.79	12.64
1980	87.40	80.26	78.21	44.43	72.77	30.56	21.59
1981	101.63	101.03	97.20	61.17	88.75	37.28	31.77
1982	94.56	97.18	91.95	57.80	83.27	34.97	28.52
1983	86.97	85.12	80.05	57.30	76.94	32.31	26.19
1984	81.14	84.75	79.62	59.14	74.49	31.29	25.88
1985	81.11	81.69	76.66	56.41	73.06	30.69	24.09
1986	47.74	49.92	44.91	36.23	43.97	18.47	12.51
1987	53.22	56.75	52.25	45.36	50.89	21.37	15.40
1988	50.31	50.72	46.10	38.72	46.22	19.41	12.58
1989	59.15	60.78	56.02	40.87	53.28	22.38	15.86
1990	72.13	73.37	67.82	50.99	65.20	27.38	20.03
1991	64.24	64.79	59.81	40.94	56.61	23.78	16.54
1992	60.90	62.78	58.12	41.67	54.81	23.02	15.99
1993	54.85	59.98	55.54	40.22	50.82	21.34	14.25
1994	52.95	57.67	53.22	42.50	50.09	21.04	13.19
1995	55.51	58.15	53.74	47.41	51.63	21.68	14.62
1996	68.29	74.02	69.64	53.78	64.43	27.06	18.46
1997	66.21	62.26	66.81	54.69	62.19	26.12	17.23
1998	52.60	45.00	43.90	28.00	42.38	17.80	10.87
1999	64.50	53.00	53.60	35.40	51.63	21.68	15.56
2000	96.30	88.00	89.60	56.60	82.63	34.70	26.72
2001	88.60	76.30	77.90	47.60	72.60	30.49	21.84
2002	82.80	71.60	71.80	53.00	69.80	29.32	22.51
2003	100.20	87.10	88.20	66.10	85.40	35.87	27.56
2004	128.80	120.80	117.80	68.10	108.88	45.73	36.77
2005	167.50	172.30	172.00	97.10	152.23	63.88	50.28
2006	196.90	196.10	201.20	113.60	176.95	74.10	59.69

WHOLESALE PRICES — TOTAL U.S.

Sources: Petroleum product prices derived by IPAA from Platt's Oilgram Price Report thru 1997. EIA prices used thereafter. Crude oil wellhead prices from EIA.

Notes: Data reflect price trends only, not actual sale prices. Motor gasoline prices represent leaded fuel prior to 1982, and unleaded thereafter.

# PETROLEUM CONSUMPTION

	(mill. bbls.)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Alabama	98.3	97.2	101.6	105.4	103.9	108.1	107.1	117.1	114.6	115.9	
Alaska	45.3	45.6	48.6	48.5	51.1	48.7	50.0	58.9	58.7	60.3	
Arizona	81.3	88.0	92.9	94.6	95.7	97.8	99.3	103.6	108.6	110.8	
Arkansas	65.4	65.2	71.6	73.1	70.0	70.1	69.6	71.7	70.7	70.8	
California	604.8	609.8	628.5	654.1	651.7	685.8	701.2	693.1	706.0	713.7	
Colorado	70.1	75.0	77.8	83.5	86.9	83.3	86.7	93.7	92.2	95.9	
Connecticut	80.3	78.8	83.2	81.2	76.6	70.8	79.8	86.1	82.6	75.0	
Delaware	25.0	25.3	25.8	24.9	26.7	26.1	26.6	25.5	26.8	25.1	
Dist.of Columbia	6.3	6.7	6.1	6.3	6.1	6.1	5.4	5.6	5.3	4.3	
Florida	309.5	339.9	341.4	354.2	352.7	345.4	351.4	382.7	390.4	373.3	
Georgia	179.3	183.3	192.6	193.7	193.0	192.5	196.1	206.2	213.3	207.8	
Hawaii	39.8	40.5	39.7	40.6	41.5	45.1	47.0	49.0	51.3	51.6	
Idaho	26.6	27.6	30.0	30.7	28.6	29.1	25.6	28.8	29.5	30.7	
Illinois	232.8	228.6	250.6	248.6	243.0	237.7	243.2	255.1	275.7	265.5	
Indiana	157.3	156.4	161.9	164.5	150.5	160.4	165.5	162.2	160.8	163.5	
Iowa	72.3	78.8	82.8	82.4	78.8	82.4	76.4	86.5	88.2	89.9	
Kansas	75.6	75.8	86.6	79.3	73.7	71.1	83.8	81.8	65.2	66.7	
Kentucky	125.7	127.5	132.7	130.2	119.3	129.9	122.7	134.2	133.5	138.7	
Louisiana	258.3	248.1	278.9	327.7	325.8	331.5	300.9	310.5	297.9	320.7	
Maine	46.5	46.1	48.1	47.1	40.7	41.3	47.3	46.6	47.6	42.9	
Maryland	95.1	100.4	105.1	101.9	102.6	99.4	103.3	106.7	110.8	103.4	
Massachusetts	134.7	138.0	133.7	138.2	135.4	130.8	133.1	135.5	136.8	124.4	
Michigan	197.0	197.4	208.0	201.5	194.0	198.1	193.4	197.4	198.1	187.0	
Minnesota	117.2	116.5	122.1	125.6	125.0	126.3	129.2	133.0	133.9	130.1	
Mississippi	10.8	9.2	8.4	10.7	9.9	10.1	10.9	10.2	84.1	86.8	
Missouri	132.2	139.3	145.1	128.6	135.4	136.9	138.9	140.1	139.7	141.1	
Montana	28.4	28.1	30.4	29.6	30.4	30.0	29.5	33.7	35.0	35.6	
Nebraska	43.0	45.4	45.9	42.0	41.0	42.9	43.3	44.5	43.2	43.3	
Nevada	39.3	40.7	41.9	43.4	45.9	43.8	44.4	48.3	51.1	54.1	
New Hampshire	31.9	33.5	34.5	34.0	31.1	32.8	36.6	37.7	35.4	32.1	
New Jersey	216.0	212.5	221.5	226.7	232.2	229.5	222.9	229.8	239.8	234.1	
New Mexico	43.3	45.3	47.6	45.8	45.3	45.8	46.1	47.8	47.7	50.3	
New York	284.7	290.7	294.8	309.1	297.0	287.1	318.8	337.1	330.6	292.6	
North Carolina	172.9	174.1	173.0	181.2	176.9	173.2	177.5	185.5	187.1	181.0	
North Dakota	22.3	20.8	22.9	22.5	26.4	23.3	22.6	25.0	25.7	25.4	
Ohio	233.5	231.5	245.0	242.2	238.4	242.8	250.2	251.2	251.6	248.8	
Oklahoma	85.8	86.7	93.5	95.4	106.4	101.6	99.6	98.3	105.5	111.7	
Oregon	65.4	70.5	71.8	69.9	67.4	69.5	67.4	70.7	71.3	70.6	
Pennsylvania	242.9	248.4	248.2	259.7	264.4	260.2	267.3	276.1	279.0	269.4	
Rhode Island	18.6	17.6	17.9	17.8	18.3	18.0	18.6	18.1	17.9	17.2	
South Carolina	82.0	84.2	84.7	87.9	93.1	93.2	95.7	109.5	105.3	109.2	
South Dakota	21.3	20.9	21.4	22.1	20.9	22.7	21.3	21.6	22.3	22.1	
Tennessee	119.8	125.4	129.3	130.8	135.3	141.3	143.5	146.8	151.0	152.6	
Texas	1,150.6	1,163.6	1,153.5	1,125.6	1,113.0	1,150.0	1,159.9	1,198.4	1,162.5	1,199.9	
Utah	44.5	45.4	46.8	49.2	48.2	47.6	49.9	50.6	52.9	57.1	
Vermont	16.1	15.6	15.7	16.6	16.9	16.2	16.3	17.9	17.2	17.0	
Virginia	152.1	153.7	156.7	164.6	168.9	164.2	177.1	189.7	189.8	185.2	
Washington	148.6	148.5	153.2	152.9	154.0	147.4	142.9	151.1	153.2	146.0	
West Virginia	38.5	40.5	38.8	39.2	47.2	49.2	46.7	51.4	49.9	53.0	
Wisconsin	115.6	118.0	126.1	124.9	116.3	117.6	112.2	118.2	117.2	115.7	
Wyoming	23.4	23.0	26.3	26.2	28.9	27.8	28.9	28.4	28.9	31.0	
<b>Total U.S..</b>	<b>6,446.3</b>	<b>6,539.2</b>	<b>6,742.6</b>	<b>6,824.9</b>	<b>6,764.2</b>	<b>6,820.0</b>	<b>6,907.8</b>	<b>7,146.0</b>	<b>7,592.8</b>	<b>7,550.9</b>	

Source: Energy Information Administration.

# NATURAL GAS CONSUMPTION

NATURAL GAS CONSUMPTION

(MMcf.)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Alabama	324,158	329,134	337,270	353,614	332,693	379,343	350,345	382,367	353,156	391,098
Alaska	425,393	434,871	422,816	427,288	408,960	419,131	414,234	406,319	432,972	379,791
Arizona	134,706	158,355	165,076	205,235	240,812	250,734	272,921	349,622	321,584	358,136
Arkansas	260,113	266,485	252,853	251,329	227,943	242,325	246,916	215,124	213,609	233,640
California	2,146,211	2,309,883	2,339,521	2,508,797	2,464,565	2,273,193	2,269,405	2,406,889	2,248,256	2,292,056
Colorado	314,486	330,259	333,085	367,920	463,738	459,397	436,253	440,378	470,321	449,830
Connecticut	144,708	131,497	152,237	159,712	146,278	177,587	154,075	162,642	168,067	172,707
Delaware	46,511	40,809	56,013	48,387	50,113	52,216	46,177	48,057	46,904	43,194
Dist.of Columbia	34,105	30,409	32,281	33,468	29,802	32,898	32,814	32,227	32,085	29,052
Florida	522,116	503,844	559,366	541,847	543,143	689,337	689,986	734,178	778,209	891,607
Georgia	371,376	368,579	337,576	413,845	351,109	383,546	379,761	394,986	412,560	419,908
Hawaii	2,894	2,654	3,115	2,841	2,818	2,734	2,732	2,774	2,795	2,784
Idaho	68,669	69,277	70,672	72,697	80,279	71,481	69,868	75,335	74,540	75,728
Illinois	1,077,139	957,254	1,004,281	1,030,604	951,616	1,049,878	998,486	953,207	969,642	892,129
Indiana	556,624	521,748	556,932	570,558	501,711	539,034	527,037	526,701	531,111	496,332
Iowa	254,489	232,057	230,691	232,565	224,336	226,457	230,161	226,819	241,340	238,495
Kansas	338,231	326,674	302,932	312,369	272,500	304,992	281,346	256,779	255,123	258,363
Kentucky	227,931	205,129	218,399	225,168	208,974	227,920	223,226	225,470	234,080	211,067
Louisiana	1,661,061	1,569,190	1,495,478	1,536,725	1,219,013	1,341,444	1,233,505	1,281,428	1,254,370	1,222,720
Maine	6,290	5,716	6,572	44,779	95,733	101,536	70,832	72,565	57,835	49,605
Maryland	212,017	188,552	196,350	212,133	178,376	196,276	197,024	194,725	202,509	182,057
Massachusetts	402,629	358,846	344,790	343,314	349,103	393,194	403,991	372,532	378,068	370,789
Michigan	994,342	876,444	951,143	963,136	906,001	966,354	924,819	916,629	913,827	809,099
Minnesota	354,092	330,513	344,591	362,025	340,911	371,583	371,261	359,898	367,825	352,576
Mississippi	255,475	241,342	306,733	300,652	332,589	343,890	265,842	282,051	301,663	307,293
Missouri	283,294	258,652	265,798	284,763	283,793	275,629	262,529	263,945	268,040	250,797
Montana	59,851	59,840	62,129	67,955	65,051	69,532	68,473	66,829	68,355	73,882
Nebraska	132,221	130,730	121,487	126,962	121,984	120,333	118,922	115,011	119,070	121,756
Nevada	132,128	148,539	154,689	189,170	176,835	176,596	185,846	214,984	227,149	249,683
New Hampshire	20,848	19,127	20,313	24,950	23,398	24,901	54,147	61,172	70,484	62,549
New Jersey	717,011	679,619	715,630	605,275	564,923	598,602	612,890	620,806	602,388	547,908
New Mexico	256,464	245,823	236,264	266,469	266,283	235,098	221,021	223,575	220,717	224,103
New York	1,324,164	1,232,473	1,274,162	1,244,746	1,171,898	1,199,632	1,101,618	1,098,056	1,080,215	1,097,040
North Carolina	215,634	214,092	217,159	233,714	207,108	235,376	218,642	224,796	229,715	223,103
North Dakota	56,179	49,541	56,418	56,528	60,819	66,726	60,907	59,986	53,050	53,338
Ohio	897,693	811,389	841,966	890,962	804,243	830,955	848,388	825,753	825,961	742,440
Oklahoma	567,050	575,855	538,329	538,563	491,458	508,298	540,103	538,576	582,536	618,714
Oregon	185,069	229,403	235,009	224,888	229,665	202,164	212,556	234,997	232,562	222,643
Pennsylvania	706,230	644,017	688,740	702,847	634,794	675,583	689,992	696,175	691,591	659,848
Rhode Island	117,707	130,751	118,001	88,419	95,607	87,805	78,456	72,609	80,764	77,197
South Carolina	153,917	159,458	162,926	160,436	141,785	184,803	146,641	163,787	172,032	174,805
South Dakota	36,115	33,042	35,794	37,939	37,077	41,577	43,881	41,679	42,555	40,739
Tennessee	282,395	279,070	278,841	270,658	255,990	255,515	257,315	231,133	230,338	220,426
Texas	4,116,722	4,205,459	4,009,689	4,421,777	4,252,152	4,303,831	4,050,632	3,908,243	3,503,636	3,433,863
Utah	165,253	169,776	159,889	164,557	159,299	163,379	154,125	155,891	160,275	187,537
Vermont	8,061	7,735	8,033	10,426	7,919	8,367	8,400	8,685	8,372	8,056
Virginia	248,960	260,332	276,793	268,770	237,853	258,202	262,970	277,434	299,746	274,055
Washington	256,366	290,229	287,302	286,653	312,114	233,716	249,599	262,485	264,754	263,467
West Virginia	159,504	142,860	139,961	147,854	141,090	146,455	126,986	122,267	117,136	113,085
Wisconsin	400,651	368,022	380,560	393,601	359,784	385,310	394,711	383,316	410,250	372,457
Wyoming	100,950	109,188	96,726	101,314	98,569	112,872	115,358	107,060	108,314	107,363
<b>Total U.S.</b>	<b>22,737,342</b>	<b>22,245,956</b>	<b>22,405,151</b>	<b>23,333,121</b>	<b>22,238,624</b>	<b>23,007,017</b>	<b>22,276,502</b>	<b>22,388,975</b>	<b>22,010,596</b>	<b>21,550,845</b>

Source: Energy Information Administration. Volumes delivered to consumers.



# INDUSTRY EMPLOYMENT-2006

State	Mining	Refining		Transportation			Wholesale	Retail	Total Industry
	Oil & Gas Extraction	Petroleum Refining	Oils & Greases	Pipelines, Except Gas	Pipeline Construction	Gas Distribution	Petroleum Products	Gasoline Stations	
Alabama	1,957	337	611	196	1,057	3,133	3,145	19,001	29,437
Alaska	10,434	ND	414	ND	481	ND	1,355	1,804	14,488
Arizona	268	ND	215	247	779	182	1,935	16,582	20,208
Arkansas	2,926	442	191	922	402	957	2,234	12,586	20,660
California	17,988	12,158	834	2,533	1,854	1,207	11,323	54,180	102,077
Colorado	15,589	NC	ND	832	2,988	1,307	2,197	12,586	35,472
Connecticut	28	ND	ND	166	248	1,279	5,479	6,497	13,367
Delaware	28	ND	ND	ND	88	ND	725	2,553	3,374
Dist. of Columbia	ND	ND	ND	ND	ND	ND	ND	477	477
Florida	1,513	96	369	1,770	722	1,770	6,919	39,969	53,128
Georgia	351	110	195	282	1,528	1,758	4,300	29,566	38,090
Hawaii	12	ND	ND	ND	75	ND	439	2,688	3,194
Idaho	136	ND	ND	ND	317	ND	911	5,394	6,758
Illinois	2,610	2,837	1,682	979	1,120	4,917	5,734	26,326	46,205
Indiana	394	ND	ND	513	1,030	3,084	3,497	23,590	32,108
Iowa	10	39	138	396	302	552	1,746	17,882	21,065
Kansas	7,723	1,576	280	875	1,289	1,725	2,235	10,318	26,021
Kentucky	2,299	725	452	991	706	791	3,107	19,134	28,205
Louisiana	45,031	9,036	1,116	2,347	14,236	1,614	1,461	17,832	92,673
Maine	17	ND	381	72	13	62	4,531	7,539	12,615
Maryland	763	ND	ND	54	772	683	3,435	10,545	16,252
Massachusetts	136	ND	ND	131	346	2,724	7,314	11,915	22,566
Michigan	2,550	ND	784	1,131	1,283	3,124	3,146	25,487	37,505
Minnesota	160	ND	ND	369	1,041	1,703	1,736	23,105	28,114
Mississippi	4,982	1,687	107	841	871	634	2,410	15,600	26,323
Missouri	109	35	411	292	475	3,177	4,290	25,237	34,026
Montana	2,711	ND	ND	328	385	392	996	5,095	9,907
Nebraska	236	ND	ND	255	132	1,489	1,251	8,838	12,201
Nevada	130	ND	ND	20	743	ND	761	8,619	10,273
New Hampshire	50	ND	201	ND	ND	196	2,464	5,240	8,151
New Jersey	392	2,515	572	311	1,159	3,749	6,319	14,770	29,787
New Mexico	14,402	ND	716	932	214	694	1,607	7,814	26,379
New York	930	42	424	365	1,398	3,598	13,762	28,314	48,833
North Carolina	564	ND	1,067	119	1,124	2,165	6,829	28,694	40,562
North Dakota	3,101	ND	ND	240	167	ND	1,671	4,058	9,237
Ohio	4,962	1,414	744	982	1,340	3,488	5,880	35,401	54,211
Oklahoma	40,017	1,319	476	1,382	1,843	3,093	10,690	13,271	72,091
Oregon	22	ND	ND	ND	292	ND	1,797	10,969	13,080
Pennsylvania	5,233	2,314	2,525	1,779	1,929	3,899	11,508	36,425	65,612
Rhode Island	87	ND	ND	ND	87	ND	1,625	1,918	3,717
South Carolina	260	ND	ND	ND	199	908	2,401	18,233	22,001
South Dakota	47	ND	ND	60	44	228	1,277	5,759	7,415
Tennessee	637	ND	ND	355	646	1,960	3,629	24,063	31,290
Texas	180,803	20,349	731	12,429	22,404	7,112	50,360	67,406	361,594
Utah	5,168	819	ND	272	400	870	1,158	9,612	18,299
Vermont	24	ND	ND	ND	ND	ND	1,703	3,896	5,623
Virginia	1,543	ND	ND	404	1,748	1,593	4,900	33,251	43,439
Washington	166	1,868	83	166	1,599	1,254	3,176	14,466	22,778
West Virginia	4,493	333	567	1,369	826	928	1,042	9,233	18,791
Wisconsin	ND	ND	126	235	439	849	3,620	23,674	28,943
Wyoming	17,523	861	ND	736	3,823	173	892	4,052	28,060
<b>Total U.S.</b>	<b>403,358</b>	<b>68,427</b>	<b>15,207</b>	<b>40,363</b>	<b>76,155</b>	<b>108,038</b>	<b>244,141</b>	<b>862,064</b>	<b>1,825,703</b>

Source: State Agencies & Bureau of Labor Statistics Note: Reported data only. N.A.I.C. codes used. ND - Non-Disclosure or not available = not included in Total.

Note: State data differ from the Bureau of Labor Statistics national averages (Total US) due to confidentiality rules. Oilfield Machinery included in Wholesale Petroleum Products. Pipeline Construction and Oilfield Machinery separated out on state pages. State page Refining includes Oil and Greases.



## Data Sources & Notes

The editorial staff gratefully acknowledges the following sources of data that appear on the individual state pages.

State maps .....	State data and IHS data for producing entities by county
First and peak production years ...	AIME Statistical Yearbook, World Oil, Oil & Gas Journal, & World Petroleum Report (Note: Marketed production)
Deepest wells drilled.....	IHS & State Data
Cumulative wells drilled .....	IHS & State Data
Cumulative wellhead value.....	Energy Information Administration
Cumulative production (marketed) & Reserves (dry) .....	Energy Information Administration
Wellhead prices and value .....	EIA, IPAA, State Data
End-use natural gas prices.....	EIA
Severance and production taxes..	IPAA survey
Wells and footage drilled .....	API, IHS & State Data
Rotary drilling rigs.....	Baker Hughes, Inc.
Producing wells .....	IHS & State Data
Oil and gas production.....	EIA & IHS
Number of employees .....	IPAA survey & BLS. Refining includes Oil and Greases.
Petroleum reserve position.....	EIA
Lease & Royalties .....	Minerals Management Service
Marginal wells & Abandonments..	IHS & IOGCC
Federal Leases & Royalties.....	Department of Interior and Minerals Management Service

## Abbreviations

bbf.	= barrel
b/d	= barrels per day
Mcf	= thousand cubic feet
MMcf	= million cubic feet
Bcf	= billion cubic feet
Tcf	= trillion cubic feet
BT	= British Thermal Unit
NGL	= Natural Gas Liquid
LPG	= Liquefied Petroleum 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
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# GLOSSARY

*Abandonments* - The number of producing wells that have been abandoned during a given time period.

*Artificial Lifting* - Any method used to stimulate the production of crude oil and/or natural gas in excess of the flow resulting under natural reservoir pressures, e.g. pumping, secondary or tertiary recovery.

*Associated Gas* - The combined volume of natural gas which occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved).

*Barrel* - Standard volumetric measure for petroleum, equivalent to 42 U.S. gallons.

*Condensate* - A mixture of liquid hydrocarbons at atmospheric conditions which occur in a gaseous state underground, sometimes known as distillate or natural gasoline.

*Crude Oil* - Hydrocarbons in liquid unprocessed form that vary significantly in properties such as API gravity, viscosity, and sulfur content.

*Development Well* - A crude oil, natural gas or dry hole drilled within an area known to be productive.

*Distillate Fuel Oil* - One of the petroleum fractions produced by conventional distillate, includes fuel oil and diesel fuel.

*Dry Hole* - A completed well which is not productive of crude oil and/or natural gas in commercial quantities.

*Dry Natural Gas* - Natural gas that does not contain dissolved liquid hydrocarbons.

*Exploratory Well* - A crude oil, natural gas, or dry hole drilled to discover a petroleum formation or its limits.

*Gas Well* - An exploratory or development well completed for the production of natural gas.

*Liquefied Petroleum Gas (LPG)* - Butane, propane, and other light products separated from natural gasoline or crude oil by fractionation or other processes. At atmospheric pressure, it reverts to the gaseous state.

*Marginal Well* - A producing well which pumps or "strips" less than 10 barrels of crude oil or 60 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.

*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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