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THE OIL & GAS PRODUCING INDUSTRY IN YOUR STATE®

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*Image: Anadarko operations in the Marcellus Shale.
Photo provided by Anadarko Petroleum Corporation.*

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THE YEAR IN REVIEW: INTRODUCTION TO 2008 O&NG IN YOUR STATE

2008: Upstream Trends Derailed by Onset of Recession

Pete Stark, Ph. D., IHS CERA

Introduction:

2008 was a year of contrasts. Industry activity soared along with oil and gas prices during the first half of the year before plunging along with the global economy during the last half of the year. U.S. economic growth, which hovered around a tepid 2 percent rate throughout 2007, began to falter at mid-year 2008 and slipped into the red during the 3rd quarter. The onset of the worst recession since the 1930s was signaled when 4th quarter annualized GDP slumped to negative 2.7 percent. Energy demand slowed along with the economy. Correspondingly, oil and gas prices and industry activity came tumbling after.

Oil prices commanded headlines for most of the year while exceeding \$100 during March and ballooning to a record \$145.15 per barrel during July before impacts of the sagging economy broke the bubble. The plunge in oil prices did not stop until December 19 when the price hit \$30.50 per barrel – the lowest price in five years. Natural gas prices followed a similar pattern, with Henry Hub spot gas peaking at \$13.30 per Mcf during July before plunging to \$5.39 per Mcf on December 24. This was the lowest gas price since September 2006. Oil demand initially slumped in response to soaring prices and then languished as the recession worsened during the last half of the year. As a result, oil consumption suffered a significant 1,162 MMb/d decline - off 5.6% from 2007. Natural gas consumption was essentially flat with 2007 but industrial demand decreased along with the economic slump while the unconventional shale gas revolution continued to surge. Surging gas production pushed U.S. working gas in storage to a bearish 3,400 Bcf during October. These counter trends helped to sink gas prices which dropped 60 percent since July. In contrast, upstream costs eased only 4 percent during 4th quarter 2008. The cost – price differential placed an additional squeeze on producers.

Unfortunately for U.S. producers, breakthroughs in shale gas production emerged on the cusp of the recession. According to the Energy Information Administration (EIA) numbers marketed gas production increased by 1,043 Bcf during 2008 – a 5.2 percent increase over 2007 and added to the positive gas production trend that commenced during 2006. Increased domestic gas production also offset planned Liquefied Natural Gas (LNG) imports and corresponding increases in the balance of payments deficit. Moreover, lower gas and oil prices helped to reduce the pain of the recession on consumers' pocket books. This was good news for U.S. energy security, the economy and for consumers. The industry, on the other hand, was caught in several challenging cross-currents. During the first half of the year all engines were full speed ahead. There was excitement over the shale gas revolution and the growing awareness that production breakthroughs finally had ended a decade-long period of tight gas supplies and volatile market conditions. As the magnitude of the economic slump set in, operators scrambled to curtail drilling

activity and to rebalance their portfolios while tightening credit lines and adjusting operations to offset the cost – price squeeze. It will be critical for operators to apply technologies and operating efficiencies to offset the cost – price squeeze.

Euphoria about the magnitude of the shale gas revolution was masked by concerns over the sagging economy and the collapse of oil and gas prices. A look at the track record, though, reveals that industry had achieved a game changer for natural gas. In addition to the 5.2 percent increase in 2008 gas production, average initial well productivity increased by almost 19 percent and key unconventional gas plays added 14.8 Tcf in proved developed reserves – a 20 percent increase from 2007 - with almost half of the new reserves coming from shale reservoirs. In its end-2008 report, the Potential Gas Committee (PGC) estimated that U.S. gas resources had increased by 515 Tcf – a 39 percent increase since 2006. This was the PGC's largest ever reported increase in U.S. gas resources. Driven by performance improvements with horizontal bore holes and multi-staged fracs, the so called "shale gale" was under way and the industry already was looking for opportunities to expand shale gas production into the international arena.

E&P Activity

Even though oil and gas prices peaked during the first week of July, drilling activity did not peak until September. As a result, overall year over year industry activity was up during 2008. Drilling activity, as measured by active rigs, increased by 109 rigs or 6 percent and seismic activity, as measured by active crews, increased by 2 percent. According to Baker Hughes data, gas directed rigs peaked during the week of September 12 at 1,606 rigs and slipped to 1,347 rigs during the last week of December. The Baker Hughes oil directed rig count did not peak until the week of November 7 at 442 rigs and slipped to 364 rigs during the last week of December. A milestone was reached during 2008 when the number of directional and horizontal directed wells exceeded, for the first time, the number of vertical directed wells. The influence of the shale gale is evident in the 41 percent increase (to 553 average rigs) in horizontally directed rigs during 2008 compared to an almost 5 percent decrease in vertically directed rigs (to 954 average rigs) during the year. Drillers were shifting from lower productive vertical wells to higher productive horizontal wells well before the onset of the recession and the collapse in oil and gas prices.

Drilling momentum during the first nine months resulted in gains across the board for well completions. Total completions of 54,087 wells were the most since 1985. Gas well completions posted a 5 percent increase to a record 32,440. The response to high oil prices was evident with 16,708 oil well completions, a 29 percent increase over 2007. Wildcat drilling activity during the first half of the year was on a pace to exceed 2007 completions but operators curtailed exploratory drilling during the last half of the year. As a result, the 2,467 wildcat completions during 2008 were off almost 4 percent from the prior year.

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Drilling activity in most key producing states followed the overall upward trends but there were a few exceptions. Noteworthy were Montana where active drilling in the Elm Coulee Bakken pool slowed and New Mexico where gas drilling slowed in the San Juan Basin. Drilling activity in Pennsylvania, West Virginia and Wyoming were about flat with 2007. Arkansas, Colorado, Kansas, Texas and Utah were among the leaders in increased gas well completions. Colorado, Kansas, North Dakota, Oklahoma, Texas and West Virginia were among the leaders in percentage increase for oil well completions.

Exploration and Significant Discoveries:

Exploration activity was channeled into three categories: Frontier exploration for conventional oil and gas fields, efforts to exploit horizontal wells with multi-stage fracs to establish production in new tight gas and shale gas plays and exploration to extend very promising productivity in emerging shale gas plays.

- **Conventional:** Offshore Gulf of Mexico deepwater and the Alaska North Slope recorded the most significant conventional discoveries. In the deep-water Gulf of Mexico nine discoveries yielded an estimated 497 MMboe in recoverable oil and gas. Noble Energy's Freestone discovery was the largest at 213 MMboe followed by BP's Kodiak discovery at 145 MMboe. Strong oil and gas prices were cited as the driver behind the record \$3.67 billion in high bids at the March 19 offshore Gulf of Mexico lease sale. On the North Slope of Alaska, AVGC LLC scored with its estimated 50.8 MMboe Tofkat discovery.
- **Tight Gas:** Numerous exploratory efforts were launched to test new tight gas play concepts. Interesting discoveries included EOG's 1-32H Buffalo Ditch discovery in the North Park Basin, Colorado that yielded 550 B/d from the Cretaceous Niobrara.
 - Shell's Pennsylvanian test in the Tucumcari Basin, eastern New Mexico that yielded 1.74 Mcfd.
 - Longfellow Energy's Atoka county, OK test that yielded 1.6 MMcfd and 5.05 MMcfd from the Ordovician Big Fork chert.
 - Barrett's Paradox Basin discoveries in SW Colorado that yielded 5.7 MMcfd and 3.1 MMcfd from the Pennsylvanian Gothic shale.

Other exploration efforts targeted diverse prospects, including:

- Pedregosa Basin, SW New Mexico, to test the Percha shale Devonian Woodford equivalent.
- Ouachita Fold Belt, SW Texas, to test and expand production in the Ellenburger limestone, Tesnus and Caballos Novaculite.
- Anadarko Basin horizontal tests to increase productivity of multiple established reservoirs like the Skinner sandstone, Marmaton limestone, Cleveland sandstone, Tonkawa formation, Atoka shale and Simpson sandstone.

- Arkoma Basin test of the deeper Chattanooga shale in the Fayetteville shale fairway.
- Uinta Basin test of Mississippian Manning Canyon shale.
- Hardeman Basin, SW Oklahoma, Atoka shale play.
- **Shale Plays:** Big news for the year, though, focused on the amazing performance of the established shale oil and gas plays:
 - Shale oil: Realization that growing Bakken shale oil production was capable of increasing onshore lower 48 states' oil production.
 - Shale gas: Realization that established shale plays were becoming a game changer for U.S. gas resources and supplies.

Barnett shale: Almost 1,200 horizontal wells were completed in the Barnett during 2008. These wells added 2,250 Bcf of recoverable gas and helped to boost production in the Barnett core area to 2.8 bcf per day.

Fayetteville shale: Increasing horizontal laterals to 4,000 ft. with more frac stages increased average Fayetteville initial potential tests by almost 40 percent to 1,850 Mcfd and helped to boost production to 1.1 Bcfd. New entrants to the play paid as much as \$5,135 per acre for leases.

Woodford shale: Similar to the Fayetteville, longer horizontal laterals with more frac stages helped to increase average Woodford initial potential test rates by 40 percent to 2,450 Mcfd. 2008 well completions added 2.45 Bcf in recoverable gas. Newfield announced it would test the performance of 10,000 ft. laterals with 20 or more frac stages in the Arkoma Basin. The promising emerging Woodford play in Canadian County, OK yielded higher initial potential test volumes including more liquids than the established Arkoma Basin Woodford play.

Haynesville shale: Operators reported an increasing number of Haynesville initial potential tests that exceeded 10 MMcfd and a few that exceeded 20 MMcfd. Early performance analyses indicated that Haynesville wells with 6 to 8 MMcfd on 30 day production tests might yield an EUR of 5 Bcf. Some pegged Haynesville recoverable gas as high as 250 Tcf. In spite of the Haynesville's promising producing potential, the collapse of gas prices impacted lease sales held by the Louisiana Office of Mineral Resources. After the Haynesville craze drove some lease prices to over \$15,000 per acre and the August Louisiana state land sale to a record \$93.8 million investment, the combined total for the September and October sales dropped to \$45.3 million. By November, the monthly sale took in just \$5.04 million. Drilling, nevertheless, did not slow materially and gas production topped 150 MMcfd by year end.

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Marcellus shale: Estimates that Marcellus recoverable gas ranged in excess of 500 Tcf characterized the hype for this rapidly evolving play. Operators across the prime Marcellus fairway reported promising results from both horizontal and vertical wells. Better horizontal wells averaged 5 Mcfd and better vertical wells averaged more than 2 MMcfd on initial tests. Major deals also highlighted the growing interest in the play. Chesapeake Energy Corp. and StatoilHydro closed a joint venture wherein StatoilHydro acquired a 32.5 percent interest in Chesapeake's Marcellus shale assets for \$3.375 billion of consideration. The assets included about 1.8 million net acres of leasehold in the Appalachian Basin. Moreover, the state of Pennsylvania established a minimum bid of \$1,000 per acre for its September 2008 lease sale.

Bakken Play: Expansion of the Middle Bakken sweet-spot in Sanish and Parshall fields, Mountrail County, ND highlighted the Bakken play during 2008. Whiting Oil & Gas reported the largest initial potential oil test in North Dakota history with flows of 4,570 bbls of oil equivalent (BOE) per day at its 11-9H Richardson-Federal well on a 1,280 unit in the Sanish field. Whiting's third quarter 2008 production reached a daily average rate of 50,480 Boe, a 24 percent increase from its average during 2007. Continental Resources noted that its 2008 Bakken wells averaged 573 Boe/d on seven day flow tests and that its nine Three Forks wells on the Nessen Anticline did even better – averaging 852 boepd during their seven day production tests. The company called the Bakken, Three Forks/Sanish (TFS) play “a game changer”.

Production Trends – Natural Gas

According to EIA, U.S. marketed gas production was 21,240 Bcf - a 1,043 Bcf or 5.2 percent increase from 2007. Offshore Gulf of Mexico wellhead gas production slipped by 454.8 Bcf, down in part due to hurricanes Gustav and Ike which destroyed 60 platforms. The 60 platforms which accounted for daily production of 13,657 bo/d and 98.5 MMcf/d, or about 1.05 percent of the oil and 1.3 percent of the gas produced daily in the Gulf. The surge in onshore unconventional gas drove the significant increase in U.S. gas production. Shale gas was the prime source of the increase but coalbed methane (CBM) also contributed adding 119.5 Bcf of gas – a 6.7 percent gain from 2007. The surge in onshore gas production also led to a 13.6 percent reduction in gas imports from 4,607.6 Bcf during 2007 to 3,980.6 Bcf during 2008. LNG imports took most of the hit – dropping 419.1 Bcf or 54 percent from 2007. The shale gale already was making a positive contribution to the economy while reducing the balance of payments.

Production Trends – Oil

Aided by the impact of the hurricanes on offshore Gulf of Mexico production, U.S. oil production continued its decade long slide which resulted in a decrease of 278.4 MMb per year, or 14.4 percent, since the beginning of the millennium. During 2008, U.S. oil production dropped by 21.34 MMb or 1.3 percent to 1,628.9 MMb. Gulf of Mexico oil production dropped by 44.87 MMb or 9.3%. This was mostly due to the

loss of production caused by hurricane damage. The outlook for the Gulf of Mexico oil production was positive, though, due to the planned commissioning of deepwater field developments over the next two years. Alaska oil production also continued to slide, dropping 13.6 MM or 5 percent. But U.S. lower 48 states oil production was a bright spot with a 24.6 MMb increase over 2007. The increase was driven by a 16.1 MMbo increase (+ 38 percent) in North Dakota's Bakken shale play plus gains in Oklahoma and Texas.

Above Ground Considerations

The collapse of oil and gas prices and resulting impacts on wellhead revenues and tightening of credit as a result of the economic recession were the primary above ground concerns during 2008. However, with the November election U.S. politics took a sharp turn to the left with a substantial increase in environmental concerns and increased influence for anti-oil and gas interests. The new administration was a champion for renewable energy and looked to increasing oil and gas taxes as a means to pay for it. The administration also was a champion for climate change mitigation and it looked like Congress also would be receptive to increasing environmental regulations including increased controls on hydraulic fracs. Lost in the political rhetoric was the increasing plus that the emerging shale gale was delivering for U.S. energy security and as a domestic clean energy source to help meet climate change objectives.

Concluding Comments

Three major issues dominated the energy scene during 2008:

- The onset of recession with the associated tightening of credit: At year-end the questions about the recession were “How deep?” and “How long?”
- The collapse in oil and gas prices which changed the economics of virtually every domestic oil and gas play. At year-end, operators focused on ways to reduce costs and to increase well productivity and operating efficiencies. They also were considering best options to rebalance portfolios to an environment with lower oil and gas demand, lower oil and gas prices and increased regulations.
- The potential impact of the shale gale on the relative competitiveness of U.S. unconventional gas plays and the long range impact on gas supplies and markets.

At year-end the industry faced significant change issues and challenges that could impact both near-term operations and the longer-term shape of the energy future.

NEW CONTENT FOR OUR 2009-2010 EDITION

A combination of economic, geological, financial and political factors necessitates continual editorial modifications by IPAA and IHS as we endeavor to improve and expand upon the data showcased in this annual upstream publication. Throughout 2008, the ramp-up of the shale natural gas and oil plays continues even as the economy loses momentum and reverses its course. Independent producers continue to play a leading role in the 'shale gale' and their supply and reserves continue to grow with increased E&P activity in both legacy and frontier areas.

Since the 2008-2009 Edition, new additions include a map showing the transforming oil and natural gas plays in the United States followed by a data page summing up key activity indicators for the major plays in 2008. Dr. Philip 'Pete' Stark provided another astute and comprehensive Year in Review overview – highlighting key trends and activity to complement the state-by-state annual data. The map and key play analysis provide a more regional and play-specific picture of activity that may span several states or show the relative location of the plays in each state.

In addition to adding more supply analysis we have also added data from the Energy Information Administration pertaining to fuel consumption and the key role played in particular by oil and natural gas. Even

though fossil fuels may not always receive relative acknowledgment for providing and enduring foundation in our energy use, this publication seeks to provide more facts regarding their use on a national and state level. IPAA recognizes that consumers globally will need fuel from all sources going forward but growing our domestic supply of oil and natural gas is paramount and one that emphasizes the efforts and activity of independent producers in developing new shales.

IPAA would like to extend a special thanks to Dr. Philip 'Pete' Stark, Janey Harwell, Ashley Bailey, Dean Williams, Randy Peterson, Read Trammel and John Wakefield for all of their efforts in improving this publication. Many hands make for lighter work and hopefully better quality with the additional data and analysis provided.

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

METHODOLOGY

- IHS uses multiple sources of data such as test files (Texas and Louisiana test information is used to allocate production volumes on a well completion level), injection files and plugging reports that is integrated with basic production volume data that is submitted by individual states. As a result, production totals may differ from the Energy Information Administration data.
- IHS production data used on state pages includes peak production, total (dry) production, average production, average output per well, coalbed methane, heavy oil and marginal wells. IHS data is used for summary production data and wells drilled rankings. EIA data is used on state pages for natural gas marketed production.
- EIA production data is used for determining wellhead value of production, cumulative crude oil wellhead value, state production rankings, state consumption figures and natural gas marketed production. State reserve data is from EIA. All price data comes from EIA or states.
- All Federal Offshore statistics include only those wells in Federal waters. All state well statistics include inland/non-Federal 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 has been used as a proxy for deepest well statistics. Cumulative number of total wells drilled data comes from IHS.
- Well statistics for oil, gas and dry wells are all classes that were drilled with the intent to find hydrocarbons. Historical well counts do not include any miscellaneous wells, i.e. injection, storage, service, 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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(614) 265-6633
(614) 265-7999 Fax
<http://www.dnr.state.oh.us>

Oklahoma Corporation Commission Oil and Gas Division

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

Oregon Department of Geology and Mineral Industries

800 NE Oregon St., #28, Room 965
Portland, OR 97232
(503) 731-4100
(503) 731-4066 Fax
<http://www.oregongeology.org/sub/default.htm>

Pennsylvania Dept. of Environmental Resources

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

South Dakota Dept. of Environment & Natural Resources

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

Tennessee Dept. of Geology & Conservation

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

Texas Railroad Commission Office of Information Services

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

Utah Department of Natural Resources

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

Virginia Division of Energy

Dept. of Mines, Minerals & Energy
P.O. Box 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.netl.doe.gov/technologies/oil-gas>

U.S. Department of Energy

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

U.S. Department of Energy

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

Bureau of Ocean Energy Management, Regulation and Enforcement

1849 C Street, NW
Washington, D.C. 20240
(202) 208-3985
<http://www.boemre.gov/>

U.S. Dept. of the Interior

1849 C Street NW
Washington, D.C. 20240
Phone: 202-208-3100
<http://www.doi.gov>

Environmental Protection Agency

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

U.S. Geological Survey

12201 Sunrise Valley Dr.
Reston, VA 20192
(703) 648-4000
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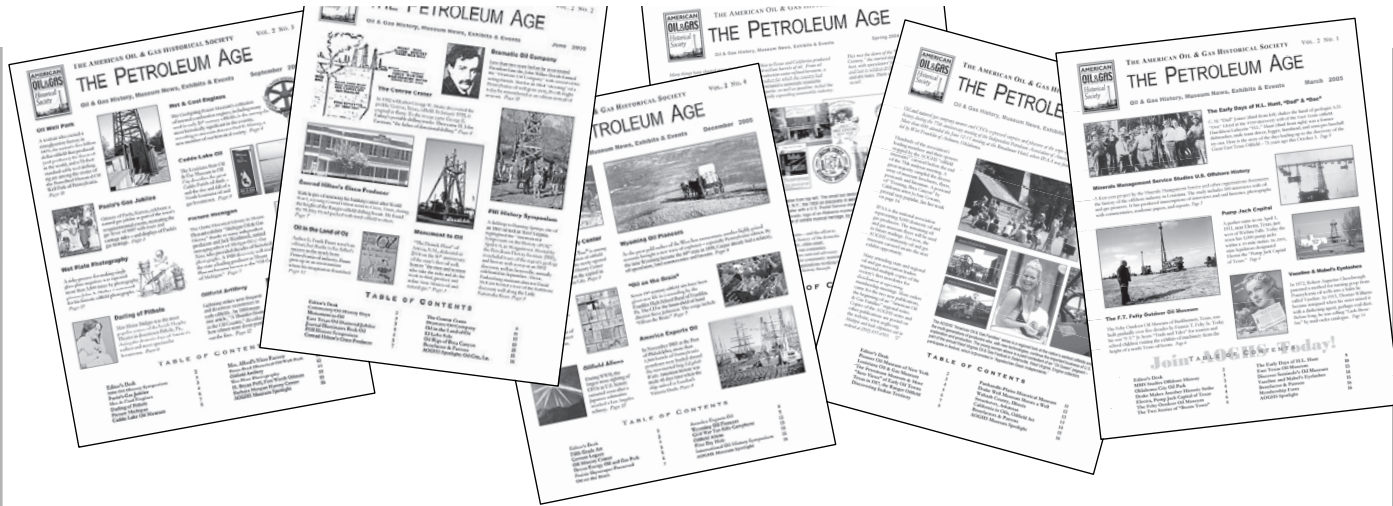


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(817) 847-7704 Fax
<http://www.landman.org>

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

Arkansas Independent Producers & Royalty Owners
1401 W. Capitol Ave., Suite 440
Little Rock, AR 72201
(501) 975-0565
(501) 975-0566 Fax
<http://www.aipro.org>

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

California Independent Petroleum Association
1112 I Street, Suite 350
Sacramento, CA 95814
(916) 447-1177
(916) 447-1144 Fax
<http://www.cipa.org>

Coalbed Methane Association of Alabama
3829 Lorna Road, Suite 306
Birmingham, AL 35244
(205) 733-8087
(205) 985-0042 Fax
<http://www.coalbed.com>

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
17 South Evergreen Avenue
P.O. Box 355
Chanute, KS 66720
(620) 431-1020
(620) 431-9325 Fax
<http://www.ekoga.org>

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

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

Independent Oil & Gas Association of NY
38 Lake St.
Hamburg, NY 14075
(716) 202-4688
(716) 202-4689 Fax
<http://iogany.org>

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

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

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

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

Indiana Oil & Gas Association
Route 1, P.O. Box 197
Bridgeport, IL 62417
(618) 943-1010
(618) 943-5301 Fax
<http://www.inoga.org>

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

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

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

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

Louisiana Landowners Association
P.O. Box 44121
Baton Rouge, LA 70804-4121
(504) 927-5619
(504) 928-7339 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>

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

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

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

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

National Stripper Well Association
P.O. Box 18336
Oklahoma City, OK 73154
(405) 601-8002
<http://www.nswa.us>

New Mexico Oil & Gas Association
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

North Dakota Petroleum Council
P.O. Box 1395 (58502)
120 N 3rd St., Ste.. 200
Bismarck, ND 58501
(701) 223-6380
(701) 222-0006 Fax
<http://www.ndoil.org>

Northern Alliance of Independent Producers
P.O. Box 2422
Bismarck, ND 58502
(701) 224-5037
(701) 224-5038 Fax
<http://www.northernproducers.com>

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

COOPERATING OIL & GAS ASSOCIATIONS

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

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

Pennsylvania Independent Oil & Gas Assoc.
115 VIP Drive, Suite 210
Northridge Office Plaza II
Wexford, PA 15090-7906
(724) 933-7306
(724) 933-7310 Fax
<http://www.pogam.org>

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
P.O. Box 979
Tulsa, OK 74101-0979
(888) THE-PTTC/(981) 560-2604
(918) 560-2678 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>

Southeastern Ohio Oil & Gas Association
P.O. Box 136
Reno, OH 45773
(740) 374-3203
(740) 374-2840 Fax
<http://www.sooga.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
www.vaoilandgas.com

West Virginia Oil & Natural Gas Association
P.O. Box 3231
Charleston, WV 25332-3231
(304) 343-1609
(304) 343-5610 Fax
Toll free: 866-343-1609
<http://www.wvonga.com>

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 Fax
<http://www.aapg.org>

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

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

Illinois Petroleum Resources Board
P.O. Box 491
Mount Vernon, IL 62864
(618) 242-2861
(618) 242-3418 Fax
<http://www.iprb.com>

International Assoc. of Drilling Contractors
P.O. Box 4287/10370 Richmond Ave., Ste. 760
Houston, TX 77210-4287/77042
(713) 292-1945
(713) 292-1946 Fax
<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

North Dakota Industrial Commission
Oil and Gas Division
600 East Boulevard Avenue, Dept. 405
Bismarck, ND 58505-0840
(701) 328-8020
(701) 328-8022
<http://www.oilgas.nd.gov>

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 Fax
<http://www.spe.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 Energy Alliance
410 17th St., Ste. 700
Denver, CO 80202
(303) 623-0987
(303) 893-0709 Fax
<http://www.westernenergyalliance.org>

Western States Petroleum Association
1415 L St., Ste. 600
Sacramento, CA 95814
(916) 444-9981
<http://www.wspsa.org>

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
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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
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3600 Boston Avenue
Fort Worth, TX 76116
817-560-5600
817-560-5644 Fax
<http://schools.fortworthisd.net/education/school>

Taft Oil Technology Academy

701 7th Street
Taft, CA 93268
661.763.2300
661.763.1445 Fax
<http://www.taft.k12.ca.us/programs/oil>

**UNIVERSITY ENERGY AND GEOLOGY PROGRAMS
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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
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
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: fypete@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: rcphoon@atu.edu
Website: <http://pls.atu.edu/physci/geology>

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Email: 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
Website: <http://www.cisofit.usc.edu>

Stanford University

Department of Energy Resources Engineering
Louis Durlofsky, Chairman and Professor
Office: (650) 723-4142
Fax: (650) 725-2099
Email: 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
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
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
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

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/business/bba.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/academics>

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/academics>

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@cncc.edu
Website: http://www.cncc.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/>

Louisiana

Louisiana State University

Department of Petroleum Engineering-Petroleum Engineering
Stephen O. Sears, Department Chair
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Fax: (225) 578-6039
Email: sosears@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

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
Office: (985) 448-4740
Fax: (985) 448-4475
Email: michael.gautreaux@nicholls.edu
Website: <http://www.nicholls.edu/does/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/>

Missouri

University of Missouri-Rolla

Department of Geological Sciences and Engineering-Petroleum Engineering
Dr. Daopu T. Numbere, Program Head
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
Leo Heath, Department Head
Office: (406) 496-4507
Fax: (406) 496-4417
Email: lhealth@mttech.edu
Website: 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
William Gosnold, Department Chair
Office: (701) 777-2631
Fax: (701) 777-4449
Email: willgosnold@mail.und.nodak.edu
Website: 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/energy_management/index.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>

Mewbourne School of Petroleum and Geological Engineering- Petroleum Engineering

Chandra Rai, Director and Eberly Chair
Office: (405) 325-6866
Fax: (405) 325-7477
Email: 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
Office: (918) 631-3588
Fax: (918) 631-3584
Email: 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
Website: <http://www.pe.utulsa.edu/>

Pennsylvania

Pennsylvania State University

Department of Energy and Mineral Engineering-Petroleum and Natural Gas Engineering
Turgay Ertektin, Program Officer and Professor
Office: (814) 865-6082
Fax: (814) 863-1875
Email: 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
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@enr.pitt.edu
Website: <http://www.enr.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
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
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
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
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
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
Website: <http://www.chee.uh.edu/petroleum/>

University of Houston-Downtown

Department of Management, Marketing, and Business-Energy Management (Minor)
Forrest Aven Jr., Department Chair
Office: (713) 221-8593
Fax: (713) 221-8632
Email: avenf@uhd.edu
Website: http://www.uhd.edu/academic/colleges/business/mmba/energy_min_index.htm

University of Texas-Austin Kilgore College

Department of Petroleum and Geosystems Engineering-Petroleum Engineering
Gary Pope, Department Director and Professor
Office: (512) 471-3235
Fax: (512) 471-9605
Email: gpope@mail.utexas.edu
Website: <http://www.pge.utexas.edu/index.cfm>

Kilgore College

Department of Continuing Education- Petroleum Technology
Bill Brantly, Course Coordinator
Office: (903) 983-8680
Fax: (903) 988-7506
Email: bbrantley@kilgore.edu
Website: http://www.kilgore.edu/petro_tech.asp

Panola College

Department of Applied Sciences-Petroleum Technology
Gary Hughes, Division Director
Office: (903) 693-1130
Fax: (903) 693-1144
Email: ghughes@panola.edu
Website: <http://www.panola.edu/instruction/srtc/index.html>

Midland College

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

Del Mar College

Technology Education Department-Process Technology
Denise Rector, Assistant Professor
Office: (361) 698-1713
Fax: (361) 698-1868
Email: drector@delmar.edu
Website: <http://www.delmar.edu/teched/process.php>

STATE EDUCATION PROGRAMS

West Virginia

Glenville State College

Department of Land Resources-Landman
Technology
Charles Sypolt, Department Chair
Office: (304) 462-4135
Fax: (304) 462-8709
Email: Charles.Sypolt@glenville.edu
Website: http://www.glenville.edu/landresources_department.asp

West Virginia University

College of Engineering and Mineral
Resources-Petroleum and Natural Gas
Engineering
Sam Ameri, Department Chair and
Professor
Office: (304) 293-7682
Fax: (304) 293-5708
Email: samuel.ameri@mail.wvu.edu
Website: <http://www.pnge.cemr.wvu.edu/welcome/>

Wyoming

Western Wyoming Community College

Division of Technology and Industry-Oil and
Gas Technology
Paul Johnson, Division Chair
Office: (307) 382-1718
Fax: (307) 382-1872
Email: pjohnson@wwcc.wy.edu
Website: <http://www.wwcc.wy.edu/academics/oilgastech/>

University of Wyoming

Department of Chemical and Petroleum
Engineering-Petroleum Engineering
H. Gordon Harris, Department Head and
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Office: (307) 766-6558
Fax: (307) 766-5769
Email: harrishg@uwyo.edu
Website: <http://www.weng.uwyo.edu/chemical/>

Canada

University of Calgary

Haskayne School of Business-Petroleum
Land Management
Bob Schulz, Program Director
Office: (403) 220-6591
Fax: (403) 282-0095
Email: bob.schulz@haskayne.ucalgary.ca
Website: <http://haskayne.ucalgary.ca/undergrad/plma>

ADDITIONAL ENERGY EDUCATION & EMPLOYMENT RESOURCES

Association of Desk and Derrick Clubs

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

A+ for Energy (Texas)

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

BP - California Community Relations "A+ for Energy"

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

California Energy Commission "Energy Quest"

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

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

1011 East Tudor Road
Anchorage Alaska 99513-6119
(907) 267-1247
(907) 271-3684 Fax
<http://www.blm.gov/ak/st/en/prog/sciencecenter.html>

Center for Energy Studies

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

Colorado School of Mines

"Denver Earth Science Project"
Office of Special Programs & Continuing
Education
Golden, CO 80401
(303) 273-3621
(303) 273-3314 Fax
http://www.mines.edu/Outreach/Cont_Ed/desp/desp.html

East Texas Historical Association

<http://www.easttexashistorical.org/>

Energy Kids

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

Environmental Education Council of Ohio

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

Federal Energy Regulatory

Commission: A Students' Corner
<http://www.ferc.gov/students/index.htm>

The NEED Project

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

Northern Montana Independent Oil and Gas Association

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

Offshore Energy Center (OEC)

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

Ohio Energy Project (OEP)

670 Enterprise Drive, Suite A
Lewis Center, OH 43035
(614) 785-1717
(614) 785-1731 Fax
<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
(740) 587-0446 Fax
<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
(405) 604-0461 Fax
<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
(405) 942-3435 Fax
<http://www.oerb.com>

Sarkeys Energy Center, University of Oklahoma

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

U.S. Dept of Energy - For Consumers

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

U.S. Dept of Energy - for Employees

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

U.S. Dept of Energy - for Researchers

<http://www.energy.gov/forresearchers.htm>

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

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

Western States Petroleum Association (WSPA)

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

Wisconsin K-12 Energy Education Program (KEEP)

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

Wyoming State Historical Society

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

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.ypenenergy.org

Austin

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Washington, D.C.

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Oil and Gas Museums

Arkansas Museum of Natural Resources
(870) 863-6113
<http://www.amnr.org/>

Arkansas Museum of Science & History
500 President Cinton Ave, Ste 150
Little Rock, AR 72201
(501) 396-7050
<http://www.amod.org>

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
2001 Colorado Blvd
Denver, CO 80205
(303) 377-6000
<http://www.dmns.org>

Illinois Oilfield Museum & Resource Center - IL
http://www.theonlyoblong.com/oil_field/oblong_oilfield.html

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

Kansas Oil Museum and Hall of Fame
(316) 321-9333
<http://www.kansasoilmuseum.org/>

Oil Patch Museum - KS
(785) 483-3637

Louisiana State Oil and Gas Museum
(318) 995-6845
<http://www.sos.louisiana.gov/tabid/242/default.aspx>

Int'l Petroleum Museum & Exposition
(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/>

Conoco Museum - OK
501 W South Avenue
Ponca City, OK 74610
(580) 765-8687
<http://www.conocomuseum.com/EN/Pages/index.aspx>

Healdton Oil Museum-OK
315 E Main St
Healdton, OK 73438-1836
(405) 229-0900
<http://www.okhistory.org/outreach/affiliates/healdtonoil.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>

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
4400 South ML King Junior Parkway
Beaumont, TX 77705-5748
(409) 835-0823
<http://spindletop.org/default.htm>

Texas Energy Museum - TX
(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/choccohm.htm>

Hathaway Ranch and Oil Museum - CA
(562) 777-3444
<http://www.hathaworld.com/hrm/index.html>

Santa Barbara Maritime Museum - CA
(805) 962-8404
<http://www.sbmm.org/index.php>

Wabash County Museum - IL
(618) 262-8774
<http://www.museum.wabash.il.us/>

Wood River Refinery History Museum - IL
(618) 255-3718
<http://www.wrrhm.org/index.htm>

Red Crown Mini-Museum - IN
<http://www.oldgas.com/info/redcrown.htm>

Trump's Texaco Museum - IN
(765) 345-7135
<http://www.indymotorspeedway.com/museums.htm>

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://independencehistoricalmuseum.org/>

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.hfmvgv.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/>

OIL AND GAS MUSEUMS

Hancock Historical Museum - OH
(419) 423-4433
<http://www.hancockhistoricalmuseum.org/>

Ken Miller Supply's Oil, Gas, Car, Truck and Agriculture Museum - OH
(330) 496-4024 or (330) 567-5930
<http://www.shreveohio.com/thisweek.htm>

Oilfield Engine Society - OH
(937) 456-9387
<http://www.oilfieldengine.com>

Ames Astrobleme Museum - OK
<http://amescrater.com/about.htm>

Cherokee Strip Regional Heritage Center - OK
(580) 237-1907
<http://www.regionalheritagecenter.org./01.htm>

Conoco Museum - OK
(580) 765-8687
<http://www.conocomuseum.com/index.htm>

Drumright Community Historical Museum - OK
(918) 352-3002
<http://drumrighthistoricalsociety.org/>

Frank Phillips Home - OK
(918) 336-2491
<http://www.frankphillipshome.org/>

Greater Southwest Historical Museum - OK
(580) 226-3857
<http://visitors.ardmore.org/>

Kerr Conference Center & Museum - OK
(918) 647-9579
http://www.carlalbert.edu/kerr_center/

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

Nowata County Historical Museum - OK
(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.web.clarion.edu/BMHarveyCenter/HCWBuild/Harvey_Center_Web_Site/About_Barbara_Morgan_Harvey.html

Coolspring Power Musuem - PA
<http://www.coolspringpowermuseum.org/>

Oil Region Alliance of Business, Industry & Tourism, Inc - PA
(800) 483-6264
<http://www.oilregion.org/>

Pumping Jack Museum - PA
(724) 867-0030
<http://www.pumpingjack.org/>

Simpler Times Museum - PA
(814) 484-3483
<http://www.navr.org/museums.html>

Venango Museum of Art, Science and Industry - PA
<http://www.venangomuseum.org/>

Bob Bullock Texas State History Museum - TX
(866) 369-7108
<http://www.thestoryoftexas.com/>

Carson Country Square House Museum - TX
(805) 537-3524
<http://www.squarehousemuseum.org/>

Central Texas Oil Patch Museum - TX
(830) 875-1922
<http://www.oilmuseum.org/Welcomes.html>

Depot Museum - TX
(903) 657-4303
<http://www.depotmuseum.com/index.htm>

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
690 Main St.
New London, TX 75682
(903) 895-4602

Million Barrel Museum - TX
<http://www.monahans.org/new/chamber/museums.html>

Museum of the Plains - TX
(806) 435-6400
<http://www.museumofthepains.com/>

Panhandle-Plains Historical Museum - TX
<http://www.panhandleplains.org>

Petroleum Museum - TX
<http://www.petroleummuseum.org/index.html>

Ranger Historical Preservation Society - TX
(254) 647-5353
<http://www.txbusiness.com/rhps/>

Van Area Oil & Historical Museum - TX
(903) 963-5435
<http://www.vantexas.com/history.html>

W. K. Gordon Center for Industrial History of Texas - TX
(254) 968-1886
<http://www.tarleton.edu/~gordoncenter/index.html>

Hot Springs County Museum & Cultural Center - WY
(307) 864-5183
<http://hschistory.org>

Pioneer Association Museum of the American West - WY
(307) 332-4137
<http://www.wyomingtourism.org/overview/Salt-Creek-Oil-Museum/4155>

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

Tate Geological Museum - WY
(307) 268-2447
<http://www.caspercollege.edu/tate>

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

STATE RANKINGS

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

Sources: IHS for wells drilled and EIA for production.

TOP PRODUCING CONGRESSIONAL DISTRICTS - CRUDE OIL

Rank	State	District	% of US Prod
1	Alaska	At Large	15.2745%
2	California	20 & 22	9.9460%
3	Texas	11	6.9008%
4	New Mexico	2	3.2809%
5	Texas	19	3.0158%
6	Louisiana	3	1.6506%
7	Wyoming	At Large	1.3062%
8	Texas	23	1.1453%
9	Utah	2	0.7312%
10	Oklahoma	3	0.7054%
11	Oklahoma	4	0.6242%
12	Texas	1	0.4162%
13	Kansas	1	0.4132%
14	Montana	At Large	0.4052%
15	Colorado	3	0.3198%
16	Texas	15	0.3162%
17	Texas	13	0.3133%
18	North Dakota	At Large	0.2588%
19	Louisiana	4	0.2264%
20	Texas	14	0.2100%
21	Louisiana	7	0.1647%
22	Colorado	4	0.1219%
23	Texas	25	0.1174%
24	Texas	22	0.1017%
25	Texas	2 & 8	0.0985%
26	Texas	17	0.0890%
27	Texas	28	0.0877%
28	Texas	29, 18, 7 & 9	0.0862%
29	Texas	27	0.0578%
30	Texas	2	0.0557%
31	New Mexico	3	0.0507%
32	Alabama	1	0.0486%
33	Texas	8	0.0473%
34	Michigan	1	0.0431%
35	Texas	6	0.0426%
36	Louisiana	5	0.0327%
37	Texas	12	0.0316%
38	Oklahoma	2	0.0231%
39	Texas	5	0.0186%
40	Texas	23 & 28	0.0076%
41	Mississippi	3	0.0058%
42	Texas	17 & 6	0.0055%
43	Texas	26	0.0049%
44	Texas	7 & 3	0.0043%
45	Mississippi	2 & 3	0.0011%
46	Texas	11 & 23	0.0008%

Source: IPAA and IHS.

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

TOP PRODUCING CONGRESSIONAL DISTRICTS - NATURAL GAS

Rank	State	District	% of US Prod
1	Wyoming	At Large	11.6843%
2	Colorado	3	5.9664%
3	New Mexico	3	4.8163%
4	Texas	1	4.7229%
5	Oklahoma	3	4.5636%
6	Texas	17	4.3490%
7	Texas	15	2.8647%
8	Texas	13	2.6238%
9	Texas	12, 26, 24 & 6	2.3481%
10	Oklahoma	2	2.3430%
11	Louisiana	4	2.0294%
12	Texas	23	1.9707%
13	Texas	6	1.8493%
14	Utah	2	1.8297%
15	Texas	28	1.7800%
16	Texas	12	1.6720%
17	Louisiana	3	1.4978%
18	New Mexico	2	1.4607%
19	Texas	25	1.2387%
20	Texas	11	1.1968%
21	Kansas	1	1.1962%
22	Colorado	4	1.1744%
23	Mississippi	3	1.1265%
24	Texas	23 & 28	1.0840%
25	Texas	26	1.0800%
26	Arkansas	2	0.8852%
27	Louisiana	7	0.8279%
28	Alaska	At Large	0.8198%
27	Texas	27	0.7944%
30	Texas	14	0.7077%
31	Louisiana	5	0.6490%
32	Alabama	1	0.6157%
33	Oklahoma	4	0.5850%
34	Texas	17 & 6	0.5249%
35	Michigan	1	0.5067%
36	Virginia	9	0.4982%
37	Texas	2	0.4298%
38	Texas	11 & 23	0.4209%
39	Alabama	6 & 7	0.4088%
40	Arkansas	3	0.3500%
41	Texas	8	0.3388%
42	Arkansas	4	0.2409%
43	Texas	2 & 8	0.2301%
44	West Virginia	3	0.1265%
45	Texas	29, 18, 7 & 9	0.1181%
46	Texas	5	0.1118%
47	Texas	22	0.1100%
48	Mississippi	2 & 3	0.1005%
49	Montana	At Large	0.0867%
50	Texas	19	0.0804%

Source: IPAA and IHS.

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



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

RIG Program

What is the IPAA RIG Program?

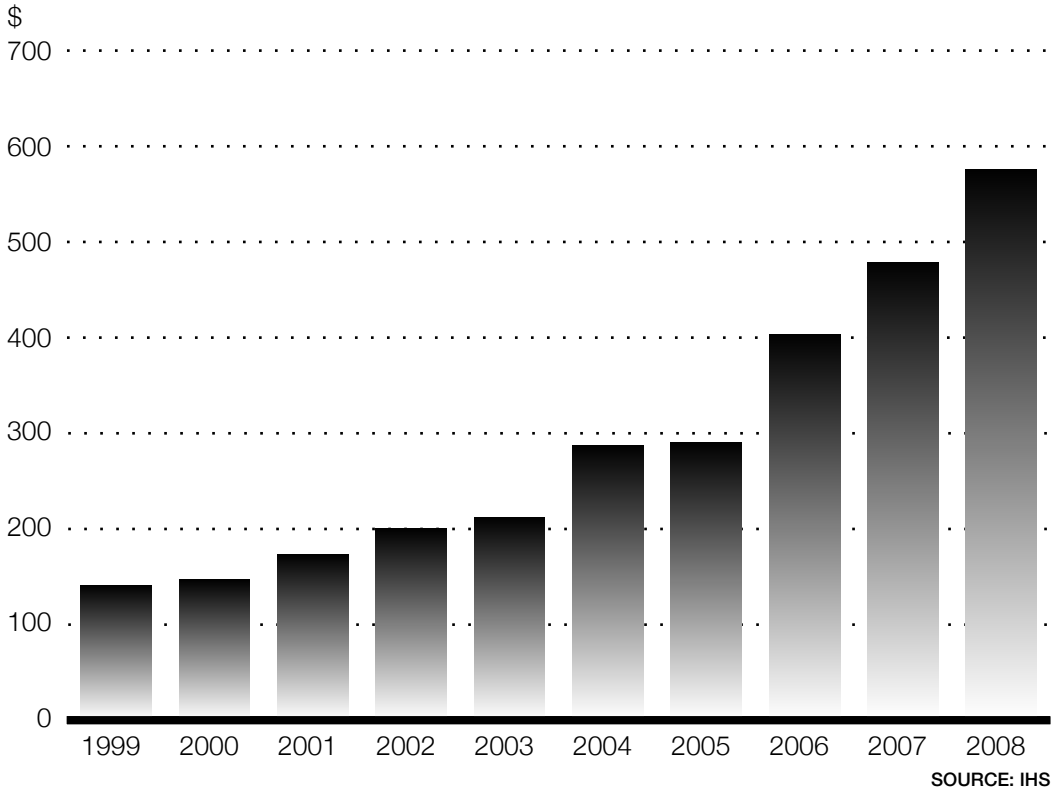
- A volunteer-based campaign
- A tool for educating elected officials
- *The most effective way for you to have a positive impact on your industry!*

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

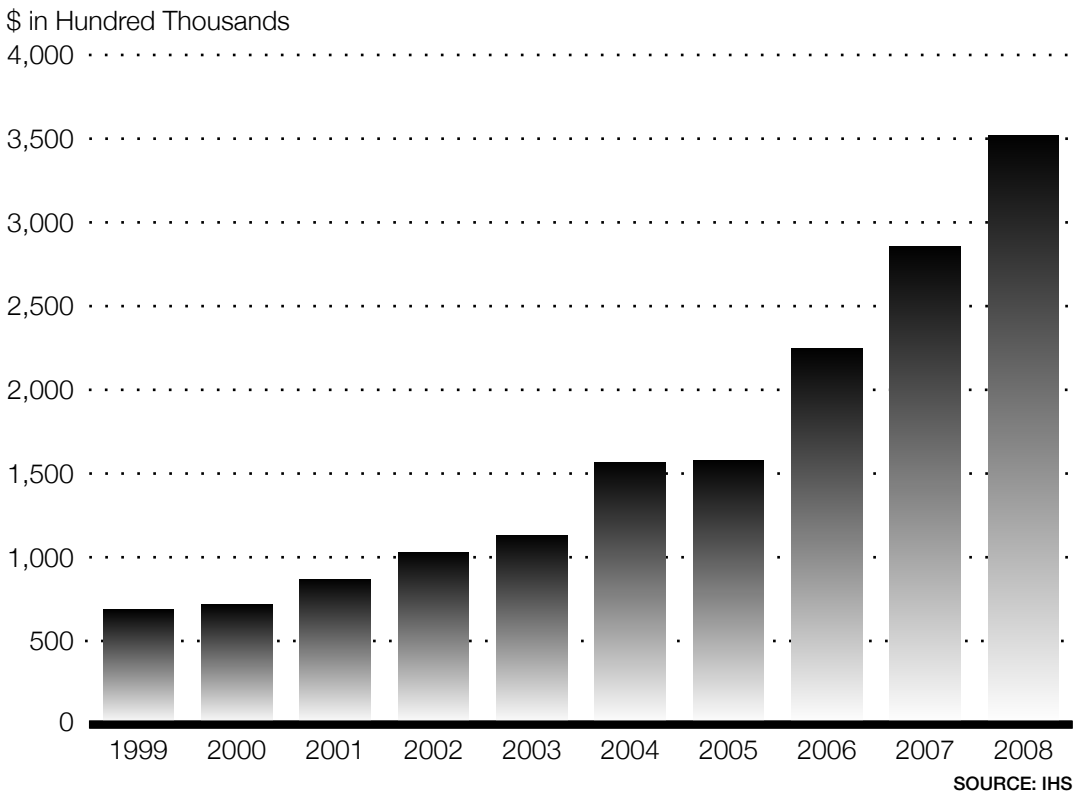
Small tasks can have a large effect! Help make a difference in shaping our national energy policy, join the RIG Program today and find out what you can do to get involved.

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

Average Cost Per Foot in U.S.

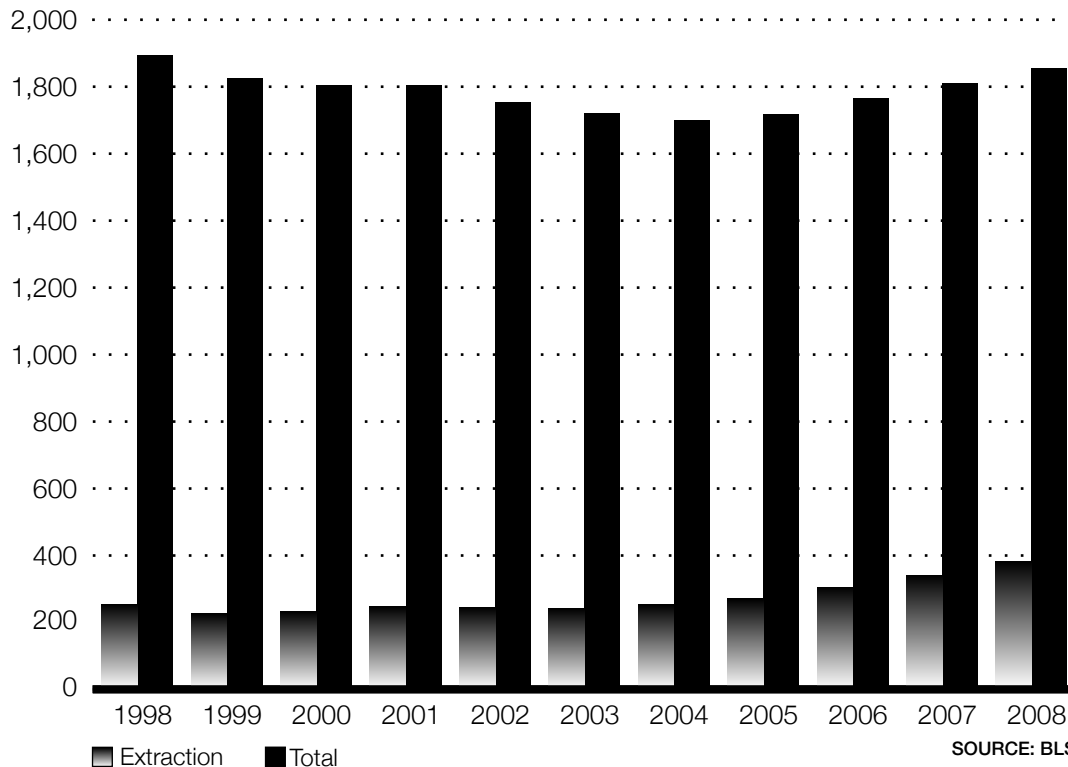


Average Cost Per Well in U.S.



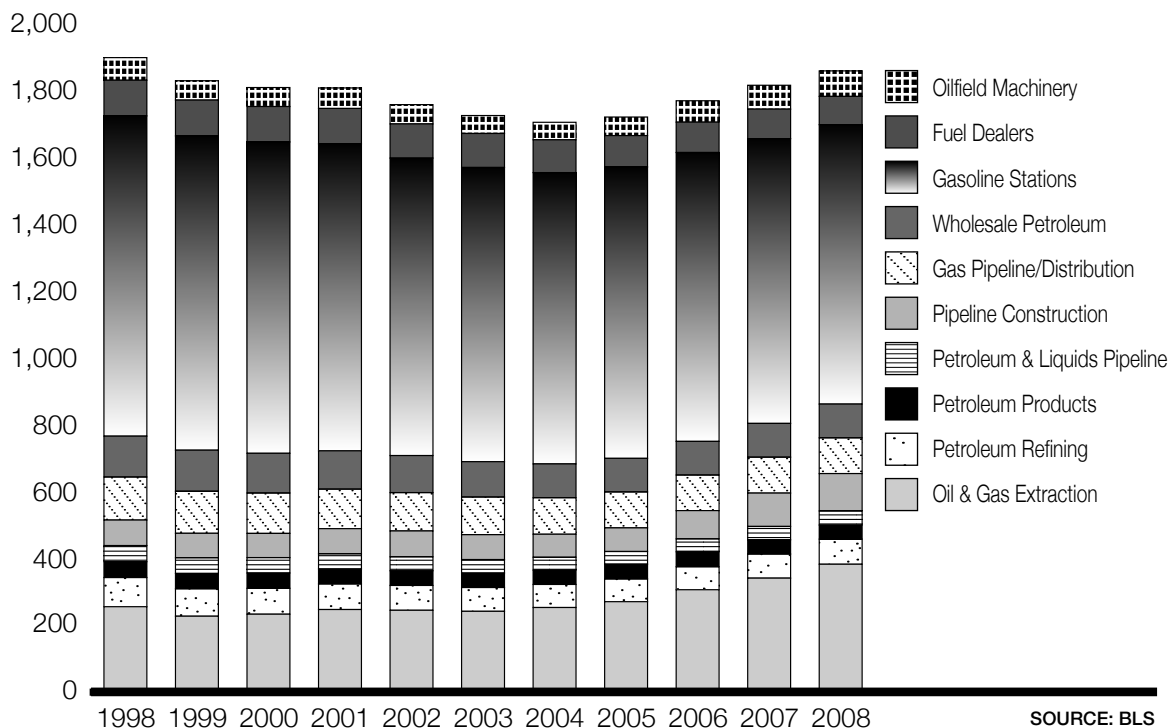
Industry Employment

In Thousands



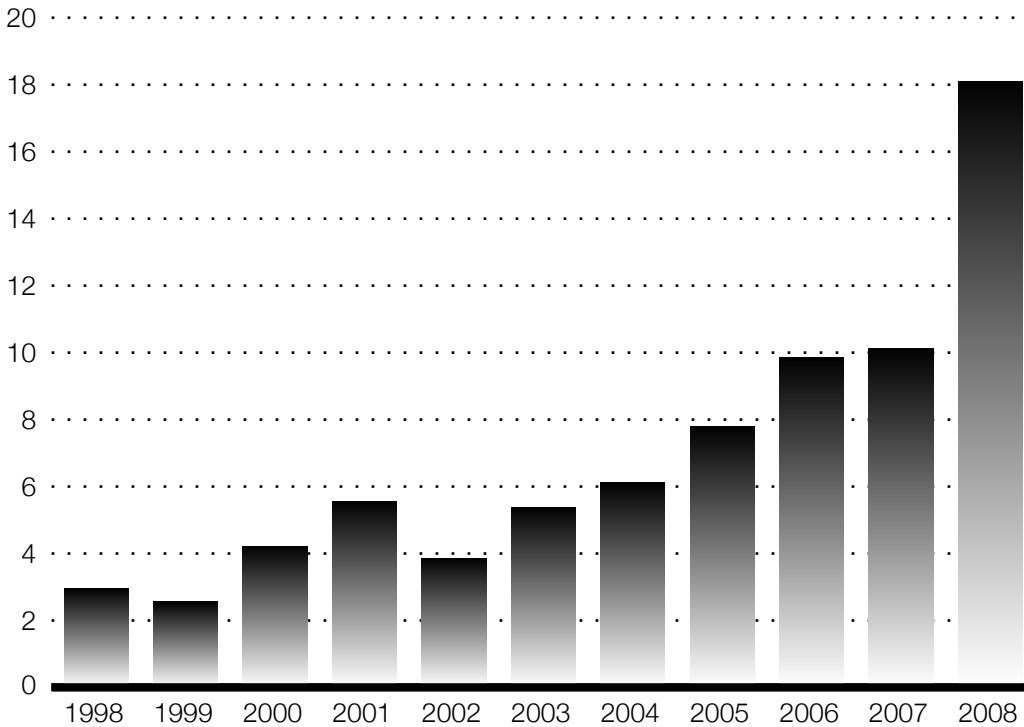
Total Petroleum & U.S. Energy Employment

Thousands



Severance Taxes

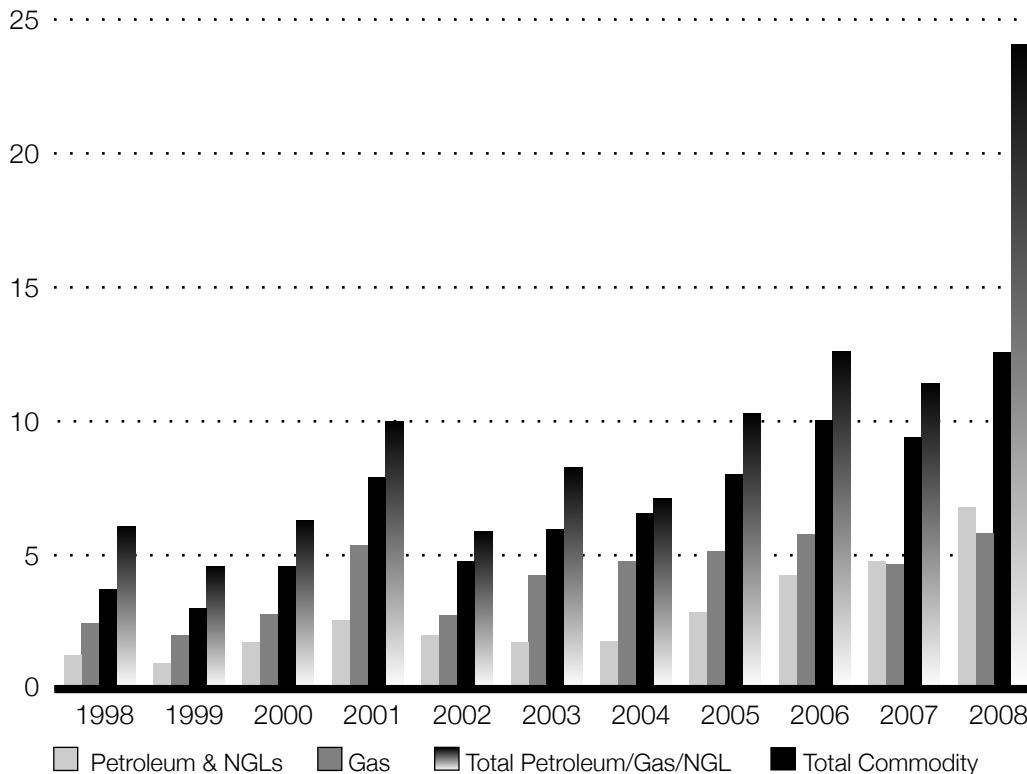
\$ in Billions



SOURCE: IPAA/State Sources

Total Petroleum & Natural Gas Royalties, Rents & Bonuses

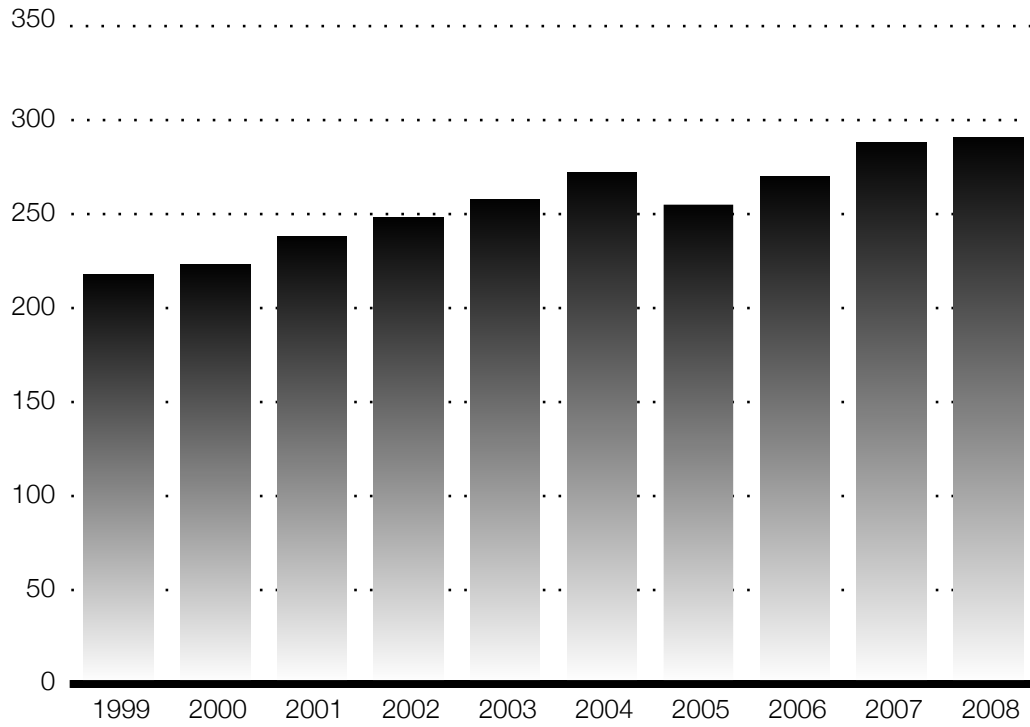
\$ in billions



SOURCE: MMS

Number of Marginal Gas Wells in U.S.

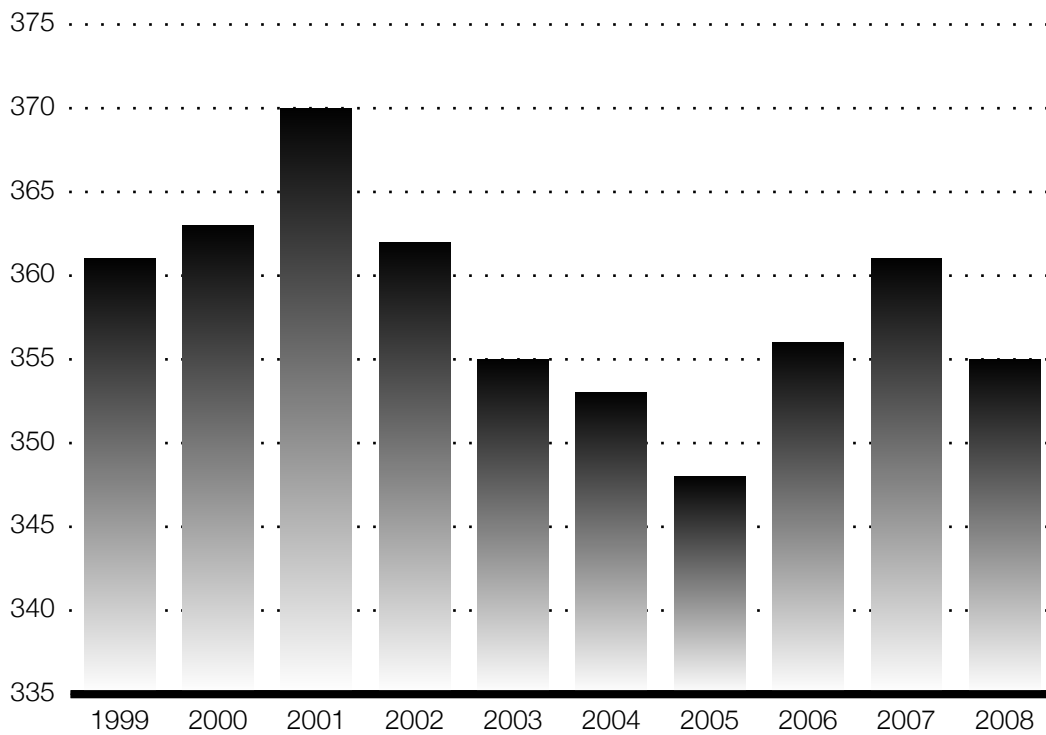
In Thousands



SOURCE: IHS

Number of Marginal Oil Wells in U.S.

In Thousands



SOURCE: IHS

CRUDE OIL SUMMARY

Year	Production			Imports Total	Supply		Exports	Demand		Crude Reserves		Price Oil Wellhead (\$/bbl.)
	Crude Oil	NGL	Total		Other	Total		Domestic	Total	Proved Reserves (mill. bbls.)	New Reserves (mill. bbls.)	
						(thous. b/d)						
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	7,670	11,871	1,079	20,620	971	19,649	20,620	22,446	2,316	21.84
2002	5,746	1,880	7,626	11,530	1,589	20,745	984	19,761	20,745	22,677	2,106	22.51
2003	5,681	1,719	7,400	12,264	1,397	21,061	1,027	20,034	21,061	21,891	1,091	27.56
2004	5,419	1,809	7,228	13,145	1,406	21,779	1,048	20,731	21,779	21,371	1,299	36.77
2005	5,178	1,717	6,895	13,714	1,358	21,967	1,165	20,802	21,967	21,757	2,119	50.28
2006	5,102	1,739	6,841	13,707	1,456	22,004	1,317	20,687	22,004	20,972	867	59.69
2007	5,064	1,783	6,847	13,468	1,798	22,113	1,433	20,680	22,113	21,317	2,036	66.52
2008	4,950	1,784	6,734	12,915	1,651	21,300	1,802	19,498	21,300	19,121	-524	94.04

Sources: Energy Information Administration.

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

NATURAL GAS SUMMARY

Year	Production		Extraction		Imports		Supply		Exports	Consumption	Gas Reserves		Price Gas Wellhead (\$/Mcf.)
	Marketed	Dry	Loss	Loss	Other*	Total	Proved Reserves	New Reserves					
											(Bcf)		
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	3,944	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	19,410	18,504	906	4,186	1,919	25,333	724	21,685	211,085	25,245	6.39		
2007	20,196	19,266	930	4,608	2,356	27,052	822	23,097	237,726	46,107	6.25		
2008	21,240	20,286	953	3,984	2,297	27,573	1,006	23,227	244,656	27,453	7.96		

Sources: Energy Information Administration.

Note: Reserves estimated as of December 31 each year.

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.)	
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	8,496	802	31,417	149.5	
1991	1,251	862	2,195	4,399	11,733	9,020	7,882	1,070	29,487	141.4	
1992	847	721	1,762	3,525	8,821	7,854	6,284	989	24,058	121.3	
1993	952	755	1,683	3,603	9,144	10,285	6,513	716	25,724	138.5	
1994	1,087	775	1,613	3,787	7,704	10,044	5,515	669	23,985	130.6	
1995	1,253	723	1,605	3,402	8,237	8,081	4,812	885	21,130	117.4	
1996	1,307	779	1,676	3,021	8,830	9,016	4,890	791	22,736	126.6	
1997	1,336	943	1,757	3,165	11,195	11,495	5,874	1,017	28,564	161.7	
1998	1,566	827	1,478	2,483	7,667	11,622	4,763	838	24,052	137.6	
1999	1,125	625	1,244	1,922	4,765	11,986	3,553	478	20,304	102.9	
2000	61*	918	1,504	2,281	8,093	16,991	4,136	930	29,220	144.4	
2001	56	1,156	1,774	3,134	8,884	22,038	4,566	786	35,486	180.0	
2002	50	830	1,454	2,379	6,763	17,298	3,735	747	27,796	145.1	
2003	43	1,032	1,726	2,650	8,109	20,689	3,975	815	32,773	177.4	
2004	49	1,192	2,052	3,399	8,763	24,121	4,053	1,447	36,937	204.4	
2005	55	1,381	2,275	4,148	10,707	28,470	4,663	1,596	43,840	240.4	
2006	62	1,649	2,528	4,850	13,288	32,875	5,183	1,946	51,346	284.2	
2007	71	1,768	2,525	5,288	13,454	33,093	5,100	2,062	51,647	307.2	
2008	72	1,879	2,336	5,407	17,090	33,578	5,684	2,358	56,352	350.5	

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.

*Switched to maximum U.S. active seismic crew count as per http://www.eia.doe.gov/emeu/mer/pdf/pages/sec5_5.pdf.

EMERGING SHALE PLAYS



2008 KEY TRENDS FOR SHALE PLAYS

	Permits	Wells Drilled	Oil Plays (Bbl)		Top Operator (# of wells) EOG RESOURCES INC (82 oil wells)
			Production	10,275,638	
Bakken	579	537			
			Gas Plays (Mmcf)		
			Production	Top Operator (# of wells)	
Barnett	3,312	2,773	560,513,171	CHESAPEAKE OPERG INC (612)	
Fayetteville	894	870	158,211,708	SEECO INCORPORATED (440)	
Woodford	623	576	106,457,875	NEWFIELD EX MID-CON (90)	
Haynesville/ Bossier	554	554	134,036,971	XTO ENERGY INC (79)	
Marcellus	390	342	2,136,236	ATLAS RESOURCES INC (78)	
			Gas & Liquid Plays (Oil in Bbl, Gas in Mmcf)		
			Production	Top Operator (# of wells)	
Eagle Ford	42 (Oil)	24 (Oil) 12 (Gas)	146,797 (Oil) 288,109 (Gas)	APACHE CORP (18 Oil) APACHE CORP (20 Gas)	
Granite Wash	597 (Oil)	39 (Oil) 531 (Gas)	223,535 (Oil) 48,275,970 (Gas)	UNIT PETROLEUM CO (16 Oil) FOREST OIL CORPORATION (86 Gas)	

Source: IHS

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

Year and depth of deepest well drilled (ft.)

2005 (GOM)	34,189
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Cumulative number of total wells drilled

as of 12/31/08 (excluding service wells)

Oil wells	1,639,121	48%
Gas wells	773,239	22%
Dry holes	1,015,641	30%
Total	3,428,055	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$) \$2,298,570,722

Cumulative production & new reserves

as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	211,135	51,811	262,946	1,347,516
Production	192,104	39,345	231,449	1,105,559

Value of Oil and Gas

Average wellhead price

(2008)

Crude oil (\$/bbl.)	\$94.02
Natural gas (\$/Mcf)	\$ 7.96

US Wellhead value of production*

(2008, in thous. \$)

Crude oil	\$170,347,034
Natural gas	\$169,038,089
US Total	\$339,385,123

Average natural gas price

(2008, \$/Mcf)

Residential consumers	\$13.89
Commercial consumers	\$12.23
Industrial consumers	\$ 9.67
Electric utilities	\$ 9.26
City Gate	\$ 9.18

Severance taxes paid

(2008, in thous. \$) \$18,105,163

Top 10 producing counties/fields

(2008 on a BOE basis)

County	State	% US Prod
Sublette	WY	3.84
Beechey Point	AK	3.83
Mississippi Canyon	FOS	3.54
Green Canyon	FOS	2.01
San Juan	NM	1.89
Garfield	CO	1.83
Johnson	TX	1.73
Tarrant	TX	1.56
La Plata	CO	1.42
Rio Arriba	NM	1.24

* Derived from EIA data.

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	999	15,625	16,624
Gas	2,274	29,804	32,078
Dry	1,576	3,306	4,883
Total	4,849	48,735	53,584

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	7,313.6	73,125.5	80,439.1
Gas	13,582.0	206,766.4	220,348.4
Dry	8,978.1	15,516.4	24,494.5
Total	29,873.7	295,408.3	325,282.0

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

New-field wildcats drilled	2,239
Footage (thous. ft.)	13,966.8

Average rotary rigs active	1,880
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Permits	83,677
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Worldwide rank

	Crude Oil	Natural Gas
Wells drilled	1st	1st
Production	3rd	2nd
Reserves (2008)*	12th	6th

Number of operators	17,874
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Number of producing wells

(12/31/08)

Crude oil	402,148
Natural gas	402,553
Total	804,701

Average production

Crude oil (thous. b/d)	3,370.5
NGL (thous. b/d)	385.5
Natural gas	48,385.8

Total production

Crude oil (YTD bbls, in thous.)	1,628,855
Natural gas (YTD MMcf)	19,776,681

Natural gas marketed production

(MMcf)

21,239,516

Average output per producing well

Crude oil (bbls.)	4,050
Natural gas (Mcf)	52,762

Coalbed methane (YTD MMcf)

Oil Wells	25
Gas Wells	47,122
Daily Average (MMcf) / Well	5,036

Heavy oil (YTD bbls, in thous.)

Wells	63,967
Av. bbls per day	1,105.9
Av. bbls per well/d	6,327.6

Source: For specific methodology and source details, please see pages 6 and 131.

* Canadian oil sands included

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-524	972	448
Production	1,672	840	2,512
Net annual change	-2,196	132	-2,064
Proved reserves	19,121	9,275	28,396

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserve	-1,296	29,957	27,453
Production	2,359	19,066	20,523
Net annual change	-3,645	10,891	6,930
Proved reserves	29,023	226,012	244,656

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	471	2,276,741	37,848,541
Gas	541	3,714,993	119,169,550
Dry	333	1,670,310	8,154,455

Marginal oil wells

Producing marginal wells	355,786
Crude oil production in bbls. (thous.)	362,808
Crude oil production b/d (thous.)	991

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	290,811
Natural gas production (MMcf)	2,784,208

Mineral lease royalties, bonuses & rent

Oil	\$ 6,775,977,613
Gas	\$ 5,817,764,667
Total Royalties	\$24,080,015,775

Horizontal wells drilled	8,078
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Average number of employees

Oil and natural gas extraction	495,395
Refining	90,326
Transportation	157,902
Wholesale	184,589
Retail	844,991
Pipeline construction	110,975
Oilfield machinery	63,827
Total petroleum industry	1,948,005

FEDERAL OFFSHORE



Federal Offshore planning areas

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.)

Natural gas (water depth 10,062)	26,480
Crude oil	33,435

Year and depth of deepest well drilled (ft.)

Water depth (1976)	26,802
Well depth (2005)	34,189

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	21,609	32%
Gas wells	26,856	40%
Dry holes	18,736	28%
Total	67,201	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$)	\$365,892,897
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Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	21,970	4,816	26,786	150,865
Production	16,009	2,968	18,977	9,411

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$98.37
Natural gas (\$/Mcf)	\$ 8.89

Wellhead value of production

(2008, in thous. \$)	
Crude oil	\$43,857,674
Natural gas	\$21,222,830
Total	\$65,080,504

Federal Revenues

(2008, in thousands \$)	
Bonuses	\$ 9,480,806.6
Rents	\$ 237,074.4
Royalties	\$ 8,324,520.6
Total	\$18,045,563.1

Top 10 producing fields

(2008 on a BOE basis)

Field	% Production	
	State	US
Mississippi Canyon	24.67	3.54
Green Canyon	14.03	2.01
Viosca Knoll	4.30	0.62
Garden Banks	4.07	0.59
Atwater Valley	3.30	0.47
East Breaks	3.24	0.47
West Cameron	3.03	0.43
Santa Cruz Area	2.78	0.40
South Timbalier	2.62	0.38
Eugene Island	2.45	0.35

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	6	99	105
Gas	16	170	186
Dry	96	101	197
Total	118	370	488

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	97.9	1,054.8	1,152.7
Gas	174.7	1,747.7	1,922.4
Dry	1,059.9	883.2	1,943.1
Total	1,332.5	3,685.7	5,018.2

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

New-field wildcats drilled	117
Footage (thous. ft.)	1,330.2

Average rotary rigs active	66
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Permits	1,035
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Statewide rank

	Crude Oil	Natural Gas
Wells drilled	3rd	10th
Production	1st	2nd
Reserves (2008)	3rd	6th

Number of producing wells

(12/31/08)

Crude oil	3,574
Natural gas	3,255
Total	6,829

Average production

Crude oil (thous. b/d)	1,079.9
NGL (est.)	142.7
Natural gas (MMcf/day)	5,205.8

Total production

Crude oil (YTD bbls, in thous.)	395,233
Natural gas (YTD MMcf)	1,905,309

Natural gas marketed production

(MMcf)	2,387,270
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Average output per producing well

Crude oil (bbls.)	110,586
Natural gas (Mcf)	585,348

Producing well depth

	Oil Wells	Gas Wells
Shelf (wd <1,000 ft)	3,070	3,104
Deep (wd 1,000-4,999 ft)	450	112
Ultra Deep (wd >5,000 ft)	54	39
Total	3,574	3,255

Number of operators*	120
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Producing oil**	119
Producing natural gas**	124

Source: For specific methodology and source details, please see pages 6 and 131.

*Number of Operators -- IHS

**Producing Oil and Natural Gas --BOEMRE

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	408	18	426
Production	410	94	504
Net annual change	-2	-76	-78
Proved reserves	3,903	548	4,451

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	889	498	1,357
Production	563	1,745	2,250
Net annual change	326	-1,247	-893
Proved reserves	5,106	8,786	13,546

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	5,526	60,662,595	6,369,573
Gas	5,400	55,816,042	10,381,784
Dry	4,324	42,650,122	8,402,074

2008 Lease Statistics

G&G permits	112
Platform installations	72
Platform removals	150
Platform in place	3,761

Lease characteristics

Existing leases	
<200 meters of water	3,320
200-400 meters of water	112
401-900 meters of water	98
>900 meters of water	139

Oil & natural gas fields

Producing	846
Non-producing	430

Mineral lease royalties, bonuses & rent

Oil	\$5,190,192,875
Gas	\$3,067,191,883
Total Royalties	\$9,721,042,509

From 1996 to 2008, the gas production in Mississippi Canyon Block 0807 field has gone from 6.5 million MCFs to just over 61 million. This field was discovered in 1989 and continues to be the top producing field in the region.

ALABAMA



○ Counties with oil and/or gas production

Background Information

Counties

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

First year of production

Crude oil	1944
Natural gas	1904

Year and amount of peak production

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

Deepest producing well (ft.)

Crude oil	19,000
Natural gas	23,330

Year and depth of deepest well drilled (ft.)

1995	24,275
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Cumulative number of total wells drilled

as of 12/31/08 (excluding service wells)

Oil wells	1,409	9%
Gas wells	8,738	59%
Dry holes	4,695	32%
Total	14,842	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$) \$12,370,807

Cumulative production & new reserves

as of 12/31/08

	Crude Oil	NGL	Total	Natural Gas
	(mill. bbls.)	(mill. bbls.)	(mill. bbls.)	(Bcf)
Reserves	513	469	982	8,422
Production	492	383	875	7,418

Value of Oil and Gas

Average wellhead price

(2008)

Crude oil (\$/bbl.)	\$96.71
Natural gas (\$/Mcf)	\$ 9.65

Wellhead value of production

(2008, in thous. \$)

Crude oil	\$ 729,774
Natural gas	\$2,488,581
Total	\$3,218,355

Average natural gas price

(2008, \$/Mcf)

Residential consumers	\$18.30
Commercial consumers	\$15.58
Industrial consumers	\$10.57
Electric utilities	\$10.03
City Gate	\$ 9.84

Severance taxes paid

(2008 in thous. \$) \$192,752

Top 10 producing counties

(2008 on a BOE basis)

County	% Production	
	State	US
Tuscaloosa	28.29	0.27
Mobile	22.48	0.22
Baldwin	21.78	0.21
Jefferson	7.67	0.07
Escambia	6.67	0.06
Conecuh	5.31	0.05
Walker	1.58	0.02
Monroe	1.16	0.01
Shelby	1.09	0.01
Lamar	1.04	0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	11	9	20
Gas	7	286	293
Dry	18	17	35
Total	36	312	348

Total footage drilled

(thous. ft.)	Exploratory	Development	Total
Oil	122.4	111.5	233.9
Gas	39.1	735.4	774.5
Dry	172.0	69.9	241.9
Total	333.5	916.8	1,250.3

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

New-field wildcats drilled 24

Footage (thous. ft.) 223.1

Average rotary rigs active 5

Permits 444

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	26th	16th
Production	16th	14th
Reserves (2008)	18th	14th

Number of operators 85

Number of producing wells

(12/31/08)

Crude oil	506
Natural gas	6,070
Total	6,576

Average production

Crude oil (thous. b/d)	15.2
NGL (thous. b/d)	5.5
Natural gas (MMcf/d)	689.8

Total production

Crude oil (YTD bbls, in thous.)	5,560
Natural gas (YTD MMcf)	252,449

Natural gas marketed production

(MMcf) 257,884

Average output per producing well

Crude oil (bbls.)	10,989
Natural gas (Mcf)	41,590

Coalbed methane (YTD MMcf) 111,680

Oil Wells	4
Gas Wells	5,606
Daily Average (MMcf) / Well	305

Heavy oil (YTD bbls, in thous.) NA

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	1	62	63
Production	5	9	14
Net annual change	-4	53	49
Proved reserves	38	106	144

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non-Associated	Dry Gas
New reserves	2	-394	-447
Production	3	262	257
Net annual change	-1	-656	-704
Proved reserves	19	3,360	3,290

Cost of drilling and equipping wells

	Cost/ft (\$)	Cost well (\$)	Total Cost (thous. \$)
Oil	654	7,645,184	152,904
Gas	503	1,329,429	389,523
Dry	325	2,247,658	78,668

Marginal oil wells

Producing marginal wells	317
Crude oil production in bbls. (thous.)	708
Crude oil production b/d (thous.)	2

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	5,023
Natural gas production (MMcf)	71,335

Mineral lease royalties, bonuses & rent

Oil	\$ 753,387
Gas	\$ 47,684,303
Total Royalties	\$ 60,039,444

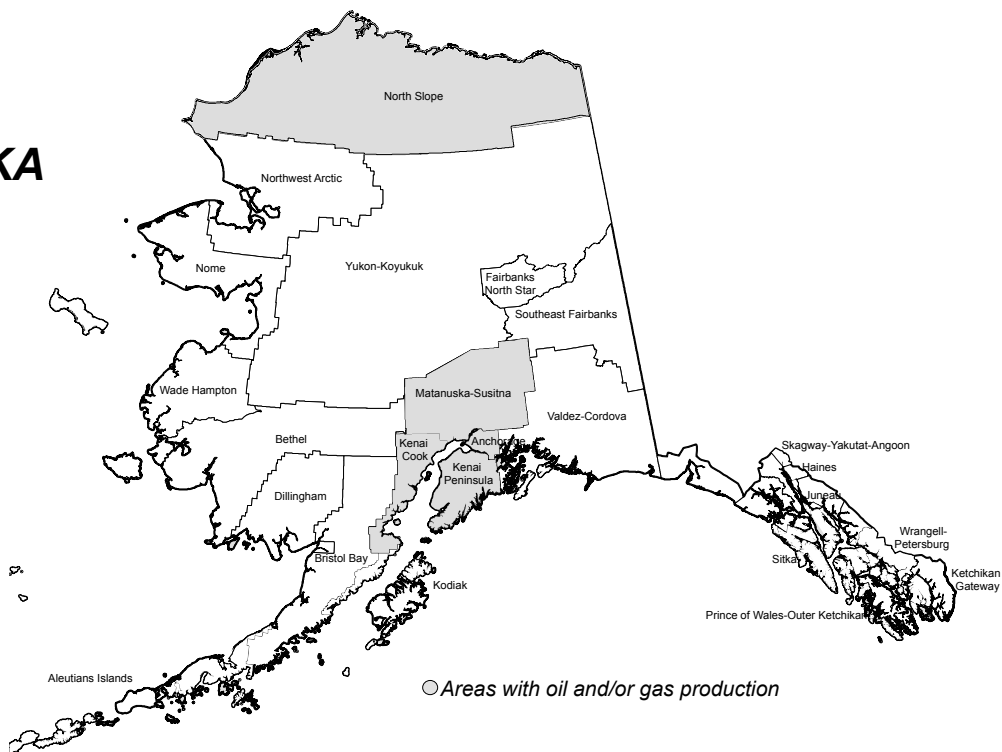
Horizontal wells drilled 12

Average number of employees

Oil and natural gas extraction	2,099
Refining	946
Transportation	2,461
Wholesale	2,193
Retail	18,169
Pipeline construction	1,457
Oilfield machinery	0
Total petroleum industry	27,325

In 2008, 15 wells were completed in Little Cedar Creek field. The first well was completed in this field in 1994.

ALASKA



Background Information

Areas

Number of areas	15
With oil and/or gas production	10

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	25,040
Natural gas	17,864

Year and depth of deepest well drilled (ft.)

2007	25,040
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	4,770	78%
Gas wells	325	5%
Dry holes	1,029	17%
Total	6,124	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$281,048,735

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	19,534	510	20,044	18,966
Production	15,861	381	16,242	12,087

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$90.19
Natural gas (\$/Mcf)	\$ 7.39

Wellhead value of production (2008, in thous. \$)

Crude oil	\$22,536,136
Natural gas	\$ 2,944,486
Total	\$25,480,622

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$8.72
Commercial consumers	\$8.66
Industrial consumers	\$5.49
Electric utilities	NA
City Gate	\$6.74

Severance taxes paid (2008, in thous. \$)

\$6,879,000

Top producing areas (2008 on a BOE basis)

Areas	% Production	
	State	US
Beechey Point	68.94	3.86
Harrison Bay	20.23	1.12
Kenai	3.42	0.19
Kenai Offshore	2.86	0.16
Tyonek	2.78	0.15
Tyonek Offshore	1.30	0.07
Harrison Bay Offshore	0.24	0.01
Seldovia	0.13	0.01
Barrow	0.09	<0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	1	114	115
Gas	0	12	12
Dry	13	5	18
Total	14	131	145

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	13.3	561.9	575.2
Gas	0.0	84.8	84.8
Dry	93.0	41.6	134.6
Total	106.3	688.3	794.7

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

New-field wildcats drilled	13
Footage (thous. ft.)	102.5

Average rotary rigs active	8
----------------------------	---

Permits	203
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	24th	27th
Production	3rd	10th
Reserves (2008)	2nd	8th

Number of operators	7
---------------------	---

Number of producing wells

(12/31/08)

Crude oil	2,479
Natural gas	190
Total	2,669

Average production

Crude oil (thous. b/d)	679.8
NGL (thous. b/d)	2.9
Natural gas (MMcf/day)	443.0

Total production

Crude oil (YTD bbls, in thous.)	248,800
Natural gas (YTD MMcf)	162,126

Natural gas marketed production

(MMcf)	398,442
--------	---------

Average output per producing well

Crude oil (bbls.)	100,363
Natural gas (Mcf)	853,294

Coalbed methane (YTD MMcf)	NA
----------------------------	----

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

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-408	0	-408
Production	248	13	261
Net annual change	-656	-13	-669
Proved reserves	3,507	312	3,819

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-3,918	18	-3,864
Production	207	149	354
Net annual change	-4,125	-131	-4,218
Proved reserves	6,627	1,139	7,699

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	5,449	27,255,763	3,134,413
Gas	3,549	25,080,825	300,970
Dry	3,050	22,822,802	410,810

Marginal oil wells

Producing marginal wells	177
Crude oil production in bbls. (thous.)	364
Crude oil production b/d (thous.)	1

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	0
Natural gas production (MMcf)	0

Mineral lease royalties, bonuses & rent

Oil	\$ 3,169,099
Gas	\$19,074,005
Total Royalties	\$72,686,999

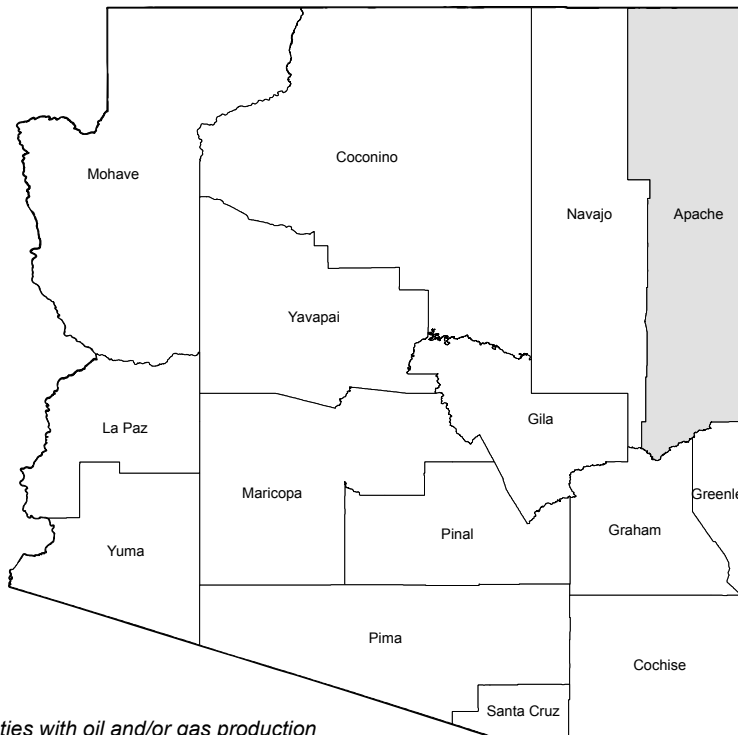
Horizontal wells drilled	59
--------------------------	----

Average number of employees

Oil and natural gas extraction	12,969
Refining	414
Transportation	274
Wholesale	556
Retail	1,705
Pipeline construction	431
Oilfield machinery	0
Total petroleum industry	16,349

Discovered in the late 1960s, Prudhoe Bay field in Alaska produced just over 277,000 barrels in 1969. By 2008, over 123 million barrels were produced to put this field as the top producing field in the state.

ARIZONA



Background Information

Counties

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

First year of production

Crude oil	1958
Natural gas	1955

Year and amount of peak production

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

Deepest producing well (ft.)

Crude oil	6,382
Natural gas	5,771

Year and depth of deepest well drilled (ft.)

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

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

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

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$70,812,773

Cumulative production & new reserves as of 12/31/08

	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* (2008)

Crude oil (\$/bbl.)	\$90.24
Natural gas (\$/Mcf)	\$ 7.09

Wellhead value of production (2008, in thous. \$)

Crude oil	\$4,692
Natural gas	\$3,708
Total	\$8,400

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$17.60
Commercial consumers	\$13.01
Industrial consumers	\$10.47
Electric utilities	\$ 8.60
City Gate	\$ 8.49

Severance taxes paid (2008, in thous. \$)

\$5,488

Top producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Apache	100	<0.01

2008 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 0

Footage (thous. ft.) 0

Average rotary rigs active 0

Permits 30

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	32nd	32nd
Production	31st	31st
Reserves (2008)	NA	NA

Number of operators 4

Number of producing wells

(12/31/08)

Crude oil	24
Natural gas	5
Total	29

Average production

Crude oil (thous. b/d) 0.1

NGL (thous. b/d) 0

Natural gas (MMcf/day) 1.2

Total production

Crude oil (YTD bbls, in thous.) 50

Natural gas (YTD MMcf) 457

Natural gas marketed production

(MMcf) 523

Average output per producing well

Crude oil (bbls.) 2,077

Natural gas (Mcf) 91,330

Coalbed methane (YTD MMcf) NA

Oil Wells NA

Gas Wells NA

Daily Average (MMcf) / Well NA

Heavy oil (YTD bbls, in thous.) NA

Wells NA

Av. bbls per day NA

Av. bbls per well/d NA

Source: For specific methodology and source details, please see pages 6 and 131.

* State Data.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (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 12/31/08 (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 23

Crude oil production in bbls. (thous.) 37

Crude oil production b/d (thous.) 0

Marginal natural gas wells

as of 12/31/08

Producing marginal wells 2

Natural gas production (MMcf) 17

Mineral lease royalties, bonuses & rent

Oil \$ 774,080

Gas \$ 54,201

Total Royalties \$43,820,703

Horizontal wells drilled 0

Average number of employees

Oil and natural gas extraction 509

Refining 206

Transportation 263

Wholesale 1,965

Retail 16,798

Pipeline construction 1,496

Oilfield machinery 0

Total petroleum industry 21,237

Dineh-Bi-Keyeh field in Arizona had

23 wells completed in 1967 with over 2 million barrels of oil produced. Still the highest producing field in AZ, less than 48,000 barrels were produced in 2008.

ARKANSAS



○ Counties with oil and/or gas production

Background Information

Counties

Number of counties	75
With oil and/or gas production	27

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 — 446,551 MMcf	2008

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 12/31/08 (excluding service wells)

Oil wells	14,535	38%
Gas wells	8,695	23%
Dry holes	14,747	39%
Total	37,977	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$12,025,125

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,832	92	1,924	14,389
Production	1,768	89	1,857	8,483

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$ 90.91
Natural gas (\$/Mcf)	\$ 8.72

Wellhead value of production (2008, in thous. \$)

Crude oil	\$ 552,642
Natural gas	\$3,893,925
Total	\$4,446,567

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$14.09
Commercial consumers	\$11.32
Industrial consumers	\$10.56
Electric utilities	\$ 9.23
City Gate	\$ 8.88

Severance taxes paid (2008, in thous. \$)

\$21,427

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Van Buren	20.70	0.33
Conway	15.98	0.26
White	15.54	0.25
Logan	9.98	0.16
Sebastian	7.93	0.13
Franklin	6.57	0.11
Yell	4.35	0.07
Faulkner	2.60	0.04
Columbia	2.41	0.04
Crawford	2.07	0.03

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	1	94	95
Gas	14	915	929
Dry	30	39	69
Total	45	1,048	1,093

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	4.6	379.7	384.3
Gas	71.0	6,531.4	6,602.4
Dry	184.6	242.3	426.9
Total	260.2	7,153.4	7,413.6

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

New-field wildcats drilled

	27
--	----

Footage (thous. ft.)	165.51
----------------------	--------

Average rotary rigs active

44

Permits

1,640

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	17th	17th
Production	18th	8th
Reserves (2008)	19th	10th

Number of operators

333

Number of producing wells

(12/31/08)

Crude oil	1,494
Natural gas	5,913
Total	7,407

Average production

Crude oil (thous. b/d)	15.8
NGL (thous. b/d)	0
Natural gas (MMcf/day)	1,209.1

Total production

Crude oil (YTD bbls, in thous.)	5,791
Natural gas (YTD MMcf)	442,536

Natural gas marketed production

(MMcf)

446,551

Average output per producing well

Crude oil (bbls.)	3,876
Natural gas (Mcf)	74,841

Coalbed methane (YTD MMcf)

1,733

Oil Wells	0
Gas Wells	43
Daily Average (MMcf) / Well	4.7

Heavy oil (YTD bbls, in thous.)

NA

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	5	-1	4
Production	6	0	6
Net annual change	-1	-1	-2
Proved reserves	30	2	32

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-22	2,801	2,777
Production	3	454	456
Net annual change	-25	2,347	2,321
Proved reserves	12	5,616	5,626

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	239	967,920	91,952
Gas	419	2,979,041	2,767,529
Dry	201	1,243,656	85,812

Marginal oil wells

Producing marginal wells	1,266
Crude oil production in bbls. (thous.)	1,895
Crude oil production b/d (thous.)	5

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	3,346
Natural gas production (MMcf)	43,409

Mineral lease royalties, bonuses & rent

Oil	\$ 184
Gas	\$ 8,239,540
Total Royalties	\$34,932,660

Horizontal wells drilled

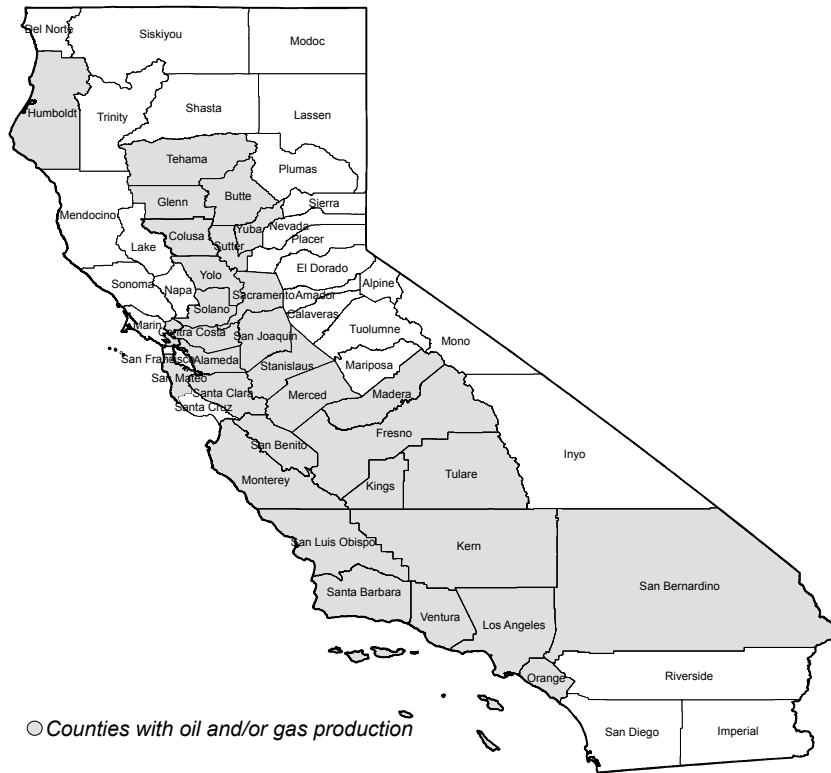
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Average number of employees

Oil and natural gas extraction	6,202
Refining	1,007
Transportation	1,728
Wholesale	2,157
Retail	11,892
Pipeline construction	1,544
Oilfield machinery	0
Total petroleum industry	24,530

In 2008, over 60 wells were completed in Smackover field in Arkansas, although production has decreased to 1/3 of the production of the first year a well was completed in this field.

CALIFORNIA



Background Information

Counties

Number of counties	58
With oil and/or gas production	31

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	24,426
Natural gas	18,114

Year and depth of deepest well drilled (ft.)

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

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	155,887	79%
Gas wells	6,723	3%
Dry holes	34,941	18%
Total	198,599	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$244,286,679

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	30,786	1,556	32,342	46,323
Production	25,049	1,413	26,462	36,983

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$ 90.21
Natural gas (\$/Mcf)	\$ 8.38

Wellhead value of production (2008, in thous. \$)

Crude oil	\$19,354,014
Natural gas	\$ 2,484,410
Total	\$21,838,424

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$12.75
Commercial consumers	\$11.75
Industrial consumers	\$10.80
Electric utilities	\$ 8.23
City Gate	\$ 8.11

Severance taxes paid (2008, in thous. \$)

\$467,130

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Kern	71.35	3.30
Los Angeles	6.55	0.30
Los Angeles Offshore	4.74	0.22
Ventura	3.18	0.15
Fresno	2.75	0.13
Monterey	1.89	0.09
Solano	1.07	0.05
Orange	1.07	0.05
Sacramento	1.02	0.05
Orange Offshore	0.98	0.05

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	4	2,423	2,427
Gas	1	141	142
Dry	21	76	97
Total	26	2,640	2,666

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	26.2	5,545.8	5,572.0
Gas	5.4	949.3	954.7
Dry	151.4	416.5	568.0
Total	183.0	6,911.6	7,094.7

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

New-field wildcats drilled	12
Footage (thous. ft.)	89.7

Average rotary rigs active	42
----------------------------	----

Permits	4,724
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	4th	20th
Production	4th	12th
Reserves (2008)	4th	17th

Number of operators	402
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	52,268
Natural gas	1,840
Total	54,108

Average production

Crude oil (thous. b/d)	585.0
NGL (thous. b/d)	0.7
Natural gas (MMcf/day)	230.4

Total production

Crude oil (YTD bbls, in thous.)	214,120
Natural gas (YTD MMcf)	84,317

Natural gas marketed production

(MMcf) 296,469

Average output per producing well

Crude oil (bbls.)	4,097
Natural gas (Mcf)	45,824

Coalbed methane (YTD MMcf)	NA
----------------------------	----

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

Heavy oil (YTD bbls, in thous.)	208,176
Wells	48,110
Av. bbls per day	569
Av. bbls per well/d	4,327

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-396	-2	-398
Production	221	11	232
Net annual change	-617	-13	-630
Proved reserves	2,705	113	2,818

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-113	23	-97
Production	163	88	237
Net annual change	-276	-65	-334
Proved reserves	113	621	2,406

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	684	1,569,273	3,808,624
Gas	270	1,816,720	257,974
Dry	304	1,780,570	172,715

Marginal oil wells

Producing marginal wells	39,453
Crude oil production in bbls. (thous.)	73,049
Crude oil production b/d (thous.)	200

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	987
Natural gas production (MMcf)	12,000

Mineral lease royalties, bonuses & rent

Oil	\$ 89,758,176
Gas	\$ 3,046,288
Total Royalties	\$105,076,646

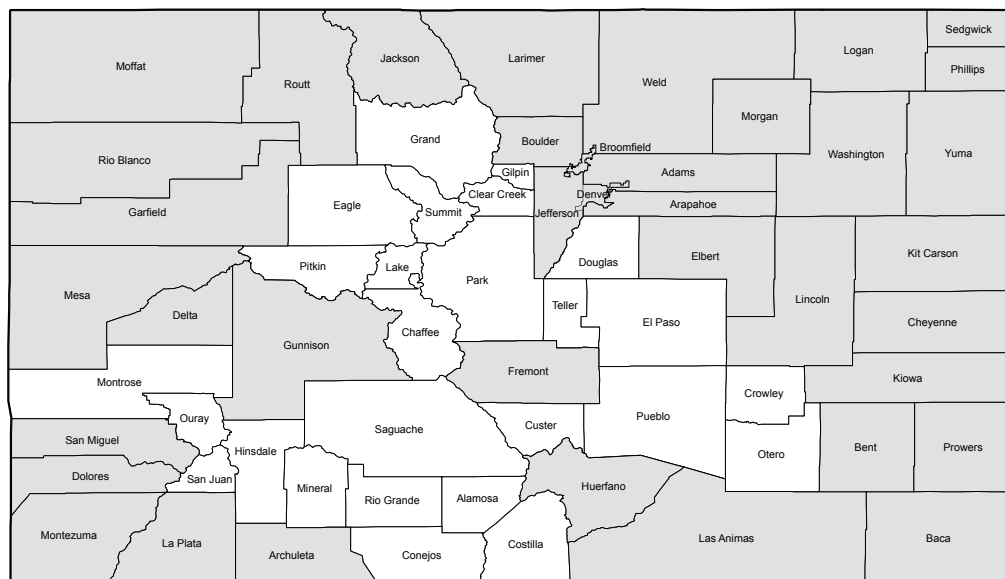
Horizontal wells drilled	245
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Average number of employees

Oil and natural gas extraction	20,953
Refining	14,432
Transportation	4,128
Wholesale	10,902
Retail	52,411
Pipeline construction	8,489
Oilfield machinery	1,862
Total petroleum industry	113,267

Oil production has remained consistent in Midway-Sunset field. The field was first discovered in 1900 and continues to be the highest producing oil field in California with over 1 billion barrels a year.

COLORADO



○ Counties with oil and/or gas production

Background Information

Counties

Number of counties	63
With oil and/or gas production	38

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 — 1,389,399 MMcf	2008

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 12/31/08 (excluding service wells)

Oil wells	13,674	17%
Gas wells	41,757	51%
Dry holes	25,723	32%
Total	81,154	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

	\$26,521,916
--	--------------

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	2,256	1,330	3,586	43,324
Production	1,992	601	2,593	19,261

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$90.80
Natural gas (\$/Mcf)	\$ 6.94

Wellhead value of production (2008, in thous. \$)

Crude oil	\$ 2,184,103
Natural gas	\$ 9,642,429
Total	\$11,826,532

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$ 9.77
Commercial consumers	\$ 9.01
Industrial consumers	\$ 8.76
Electric utilities	\$ 7.02
City Gate	\$ 6.98

Severance taxes paid (2008, in thous. \$)

	\$139,551
--	-----------

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Garfield	35.33	1.83
La Plata	27.52	1.42
Weld	12.80	0.66
Las Animas	8.40	0.43
Rio Blanco	4.84	0.25
Yuma	3.04	0.16
Mesa	2.49	0.13
Moffat	1.32	0.07
San Miguel	0.91	0.05
Cheyenne	0.66	0.03

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	4	101	105
Gas	70	3,618	3,688
Dry	50	71	121
Total	124	3,790	3,914

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	28.0	695.1	723.1
Gas	395.9	25,249.0	25,644.8
Dry	212.3	318.6	530.9
Total	636.2	26,262.6	26,898.8

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

New-field wildcats drilled	84
Footage (thous. ft.)	443.7

Average rotary rigs active	114
----------------------------	-----

Permits	7,177
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	18th	8th
Production	12th	7th
Reserves (2008)	12th	3rd

Number of operators	342
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	5,038
Natural gas	36,805
Total	41,843

Average production

Crude oil (thous. b/d)	29.7
NGL (thous. b/d)	48.9
Natural gas (MMcf/day)	4,033.2

Total production

Crude oil (YTD bbls, in thous.)	10,875
Natural gas (YTD MMcf)	1,476,152

Natural gas marketed production

(MMcf)	1,389,399
--------	-----------

Average output per producing well

Crude oil (bbls.)	2,159
Natural gas (Mcf)	40,107

Coalbed methane (YTD MMcf)	533,892
----------------------------	---------

Oil Wells	0
Gas Wells	4,905
Daily Average (MMcf) / Well	1,459

Heavy oil (YTD bbls, in thous.)	198
---------------------------------	-----

Wells	104
Av. bbls per day	0.6
Av. bbls per well/d	1,905

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	7	202	209
Production	23	45	68
Net annual change	-16	157	141
Proved reserves	288	716	1,004

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	297	2,887	2,892
Production	125	1,370	1,441
Net annual change	172	1,517	1,451
Proved reserves	2,010	22,159	23,302

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	373	2,571,140	269,970
Gas	601	4,180,290	15,416,910
Dry	250	1,099,082	132,989

Marginal oil wells

Producing marginal wells	4,304
Crude oil production in bbls. (thous.)	3,848
Crude oil production b/d (thous.)	11

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	25,918
Natural gas production (MMcf)	292,816

Mineral lease royalties, bonuses & rent

Oil	\$ 66,586,572
Gas	\$ 403,587,201
Total Royalties	\$ 571,882,570

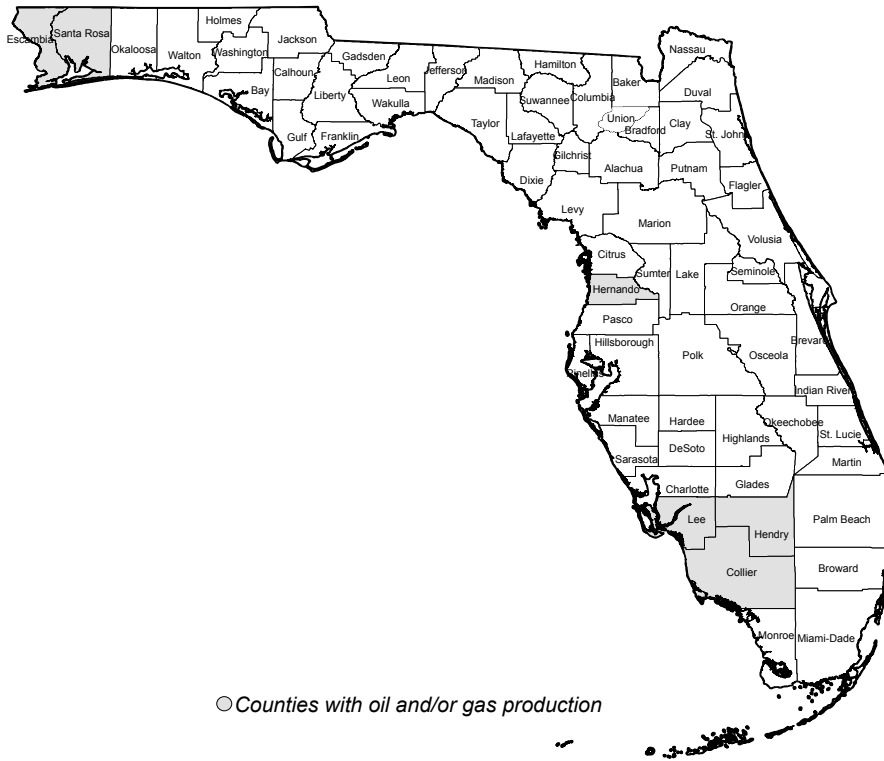
Horizontal wells drilled	34
--------------------------	----

Average number of employees

Oil and natural gas extraction	23,129
Refining	637
Transportation	2,024
Wholesale	2,230
Retail	12,675
Pipeline construction	3,657
Oilfield machinery	227
Total petroleum industry	44,579

Over 1,100 wells were completed in Wattenberg field in 2008. Production started here in the 1970s and has grown to over 15 million bbls per year.

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.)

2008	18,875
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	321	27%
Gas wells	3	0%
Dry holes	890	73%
Total	1,214	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$)	\$9,352,458
----------------------------	-------------

Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	688	80	768	615
Production	684	86	770	603

Value of Oil and Gas

Average wellhead price (2008)

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

Wellhead value of production

(2008, in thous. \$)	
Crude oil	NA
Natural gas	NA
Total	NA

Average natural gas price

(2008, \$/Mcf)	
Residential consumers	\$21.19
Commercial consumers	\$14.51
Industrial consumers	\$11.72
Electric utilities	\$10.41
City Gate	\$ 9.73

Severance taxes paid (2008, in thous. \$)

Top producing counties

(2008 on a BOE basis)		
County	% Production	
	State	US
Santa Rosa	52.47	0.02
Collier	25.66	0.01
Escambia	10.11	<0.01
Hendry	7.02	<0.01
Lee	4.39	<0.01
Hernando	0.36	<0.01

2008 Industry Statistics

Number of wells drilled

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

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	3.04	3.04
Gas	NA	NA	NA
Dry	NA	NA	NA
Total	NA	3.04	3.04

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

New-field wildcats drilled

Footage (thous. ft.) NA

Average rotary rigs active

1

Permits

5

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	29th	34th
Production	23rd	27th
Reserves (2008)	25th	24th

Number of operators

6

Number of producing wells

(12/31/08)

Crude oil	66
Natural gas	0
Total	66

Average production

Crude oil (thous. b/d)	5.3
NGL (thous. b/d)	0
Natural gas (MMcf/day)	0

Total production

Crude oil (YTD bbls, in thous.)	1,958
Natural gas (YTD MMcf)	0

Natural gas marketed production

(MMcf) 2,436

Average output per producing well

Crude oil (bbls.)	29,662
Natural gas (Mcf)	0

Coalbed methane (YTD MMcf)

NA

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

Heavy oil (YTD bbls, in thous.)

NA

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-26	-2	-28
Production	3	0	3
Net annual change	-29	-2	-31
Proved reserves	3	0	3

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-106	0	-104
Production	3	0	3
Net annual change	-109	0	-107
Proved reserves	1	0	1

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	3,035	9,220,391	9,220
Gas	NA	NA	NA
Dry	NA	NA	NA

Marginal oil wells

Producing marginal wells	12
Crude oil production in bbls. (thous.)	28
Crude oil production b/d (thous.)	0

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	0
Natural gas production (MMcf)	0

Mineral lease royalties, bonuses & rent

Oil	--
Gas	--
Total Royalties	\$12,388

Horizontal wells drilled

1

Average number of employees

Oil and natural gas extraction	1,155
Refining	473
Transportation	2,075
Wholesale	6,371
Retail	37,779
Pipeline construction	881
Oilfield machinery	31
Total petroleum industry	48,765

Jay field in Florida produced over 25 million barrels of oil in 1973. Still the highest producing field in FL, just over 1.1 million barrels were produced in 2008.



○ 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 12/31/08 (excluding service wells)

Oil wells	65,185	55%
Gas wells	1,288	1%
Dry holes	51,783	44%
Total	118,259	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$)	\$22,929,551
----------------------------	--------------

Cumulative production & new reserves

as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	3,574	NA	3,574	NA
Production	3,560	NA	3,560	NA

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$93.48
Natural gas (\$/Mcf)	NA

Wellhead value of production

(2008, in thous. \$)	
Crude oil	\$880,862
Natural gas	NA
Total	\$880,862

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$12.07
Commercial consumers	\$11.70
Industrial consumers	\$10.58
Electric utilities	\$10.10
City Gate	\$ 8.48

Severance taxes paid (2008, in thous. \$)

	--
--	----

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Marion	11.68	0.02
White	11.41	0.02
Crawford	10.30	0.02
Lawrence	8.49	0.02
Clay	6.93	0.01
Fayette	6.40	0.01
Wayne	6.06	0.01
Richland	3.94	0.01
Wabash	3.87	0.01
Franklin	3.72	0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	8	303	311
Gas	2	34	36
Dry	51	97	148
Total	61	434	495

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	25.2	724.9	750.1
Gas	4.0	43.8	47.7
Dry	128.3	227.1	355.4
Total	157.5	995.8	1,153.4

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

New-field wildcats drilled

20

Footage (thous. ft.) 41.1

Average rotary rigs active 0

Permits 816

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	7th	24th
Production	15th	29th
Reserves (2008)	15th	NA

Number of operators 836

Number of producing wells*

(12/31/08)

Crude oil	15,892
Natural gas	45
Total	15,937

Average production

Crude oil (thous. b/d) 25.8

NGL (thous. b/d) 0

Natural gas (MMcf/day) NA

Total production

Crude oil (YTD bbls, in thous.) 9,430

Natural gas (YTD MMcf) 0

Natural gas marketed production

(MMcf) 1,193

Average output per producing well*

Crude oil (bbls.) 593

Natural gas (Mcf) 26,511

Coalbed methane (YTD MMcf) NA

Oil Wells NA

Gas Wells NA

Daily Average (MMcf) / Well NA

Heavy oil (YTD bbls, in thous.) NA

Wells NA

Av. bbls per day NA

Av. bbls per well/d NA

Source: For specific methodology and source details, please see pages 6 and 131.

* World Oil for Number of producing wells.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-41	NA	-41
Production	6	NA	6
Net annual change	-47	NA	-47
Proved reserves	54	NA	54

Natural gas reserves

as of 12/31/08 (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	311	749,250	233,017
Gas	588	780,105	28,084
Dry	226	543,707	80,469

Marginal oil wells

Producing marginal wells 7,109

Crude oil production in bbls. (thous.) 5,732

Crude oil production b/d (thous.) 16

Marginal natural gas wells

as of 12/31/08

Producing marginal wells 0

Natural gas production (MMcf) 0

Mineral lease royalties, bonuses & rent

Oil \$381,272

Gas --

Total Royalties \$382,539

Horizontal wells drilled 10

Average number of employees

Oil and natural gas extraction 2,825

Refining 4,614

Transportation 5,953

Wholesale 5,441

Retail 26,378

Pipeline construction 2,414

Oilfield machinery 20

Total petroleum industry 47,645

Discovered in the early 1930s, Clay

City Consolidated field remains the top producing oil field in the state of Illinois. 36 wells were completed in 2008 with just over 1 million barrels produced.

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 — 4,701 MMcf	2008

Deepest producing well (ft.)

Crude oil	NA
Natural gas	NA

Year and depth of deepest well drilled (ft.)

2008	10,064
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	6,560	36%
Gas wells	1,339	7%
Dry holes	10,537	57%
Total	18,436	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$)	\$3,833,580
----------------------------	-------------

Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	559	NA	559	NA
Production	550	NA	550	NA

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$91.92
Natural gas (\$/Mcf)	\$ 7.58

Wellhead value of production

(2008, in thous. \$)	
Crude oil	\$170,787
Natural gas	\$ 35,634
Total	\$206,421

Average natural gas price

(2008, \$/Mcf)	
Residential consumers	\$12.65
Commercial consumers	\$11.14
Industrial consumers	\$10.48
Electric utilities	\$ 9.61
City Gate	\$ 8.94

Severance taxes paid (2008, in thous. \$)

Top 10 producing counties

(2008 on a BOE basis)

County	% Production	
	State	US
Posey	38.03	0.01
Gibson	24.34	0.01
Pike	8.04	<0.01
Greene	5.03	<0.01
Daviess	4.96	<0.01
Spencer	4.62	<0.01
Knox	4.14	<0.01
Vanderburgh	3.37	<0.01
Vigo	3.12	<0.01
Sullivan	2.38	<0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	13	72	85
Gas	25	39	64
Dry	41	23	64
Total	79	134	213

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	35.0	147.1	182.0
Gas	27.9	37.9	65.7
Dry	92.0	36.0	127.9
Total	154.8	220.9	375.6

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

New-field wildcats drilled

Footage (thous. ft.) 23 58.5

Average rotary rigs active

2

Permits

385

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	22nd	23rd
Production	24th	24th
Reserves (2008)	22nd	NA

Number of operators

228

Number of producing wells*

(12/31/08)

Crude oil	4,718
Natural gas	975
Total	5,693

Average production

Crude oil (thous. b/d)	5.1
NGL (thous. b/d)	0
Natural gas (MMcf/day)	NA

Total production

Crude oil (YTD bbls, in thous.)	1,855
Natural gas (YTD MMcf)	NA

Natural gas marketed production

(MMcf) 4,701

Average output per producing well*

Crude oil (bbls.)	393
Natural gas (Mcf)	4,822

Coalbed methane (YTD MMcf)

NA

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

Heavy oil (YTD bbls, in thous.)

NA

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

Source: For specific methodology and source details, please see pages 6 and 131.

* World Oil for Number of producing wells.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	0	NA	0
Production	2	NA	2
Net annual change	-2	NA	-2
Proved reserves	15	NA	15

Natural gas reserves

as of 12/31/08 (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	282	604,515	51,384
Gas	874	897,344	57,430
Dry	259	517,467	33,118

Marginal oil wells

Producing marginal wells	1,792
Crude oil production in bbls. (thous.)	1,272
Crude oil production b/d (thous.)	3

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral lease royalties, bonuses & rent

Oil	--
Gas	--
Total Royalties	--

Horizontal wells drilled

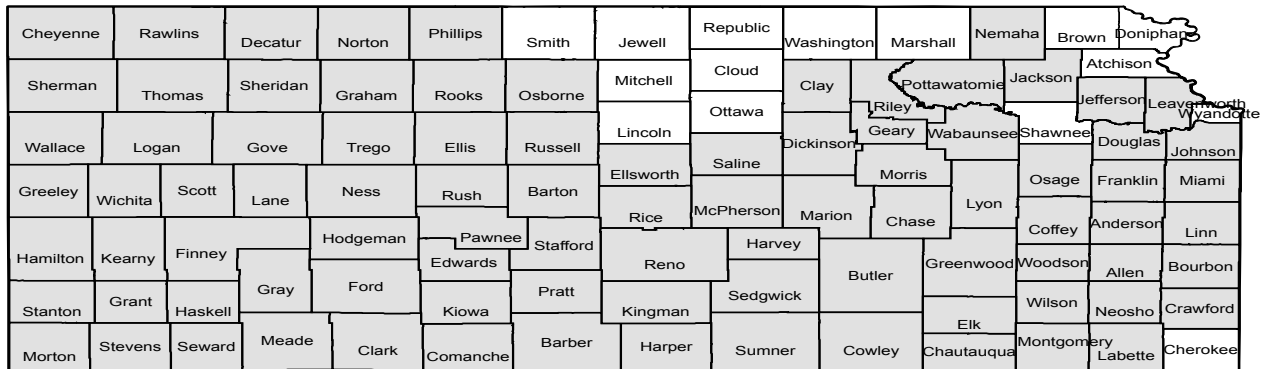
32

Average number of employees

Oil and natural gas extraction	524
Refining	3,433
Transportation	3,304
Wholesale	3,453
Retail	22,249
Pipeline construction	1,572
Oilfield machinery	138
Total petroleum industry	34,673

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

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	9,142
Natural gas	28,780

Year and depth of deepest well drilled (ft.)

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

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	130,359	47%
Gas wells	37,064	13%
Dry holes	110,638	40%
Total	278,061	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$)	\$54,848,271
----------------------------	--------------

Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	6,472	1,462	7,934	44,893
Production	6,225	1,341	7,566	41,107

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$92.08
Natural gas (\$/Mcf)	\$ 6.85

Wellhead value of production (2008 in thous. \$)

Crude oil	\$3,644,711
Natural gas	\$2,564,024
Total	\$6,208,735

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$13.00
Commercial consumers	\$12.24
Industrial consumers	\$ 9.42
Electric utilities	\$ 8.11
City Gate	\$ 8.85

Severance taxes paid (2008, in thous. \$)

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Stevens	11.46	0.24
Grant	6.84	0.14
Haskell	6.44	0.13
Kearny	6.04	0.13
Finney	5.55	0.11
Morton	4.56	0.09
Barber	4.10	0.08
Seward	3.99	0.08
Ellis	3.23	0.07
Wilson	2.87	0.06

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	213	1,504	1,717
Gas	49	1,473	1,522
Dry	346	657	1,003
Total	608	3,634	4,242

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	894.3	4,165.1	5,059.4
Gas	242.9	2,552.7	2,795.7
Dry	1,448.0	2,386.4	3,834.3
Total	2,585.1	9,104.2	11,689.3

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

New-field wildcats drilled	313
Footage (thous. ft.)	1,342.6

Average rotary rigs active	11
----------------------------	----

Permits	5,893
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	5th	9th
Production	10th	11th
Reserves (2008)	13th	13th

Number of operators	2,068
---------------------	-------

Number of producing wells

(12/31/08)

Crude oil	41,661
Natural gas	21,908
Total	63,569

Average production

Crude oil (thous. b/d)	108
NGL (thous. b/d)	0
Natural gas (MMcf/day)	1,037

Total production

Crude oil (YTD bbls, in thous.)	39,575
Natural gas (YTD MMcf)	379,647

Natural gas marketed production

(MMcf)	374,310
--------	---------

Average output per producing well

Crude oil (bbls.)	950
Natural gas (Mcf)	17,329

Coalbed methane (YTD MMcf)	42,848
----------------------------	--------

Oil Wells	11
Gas Wells	3,806
Daily Average (MMcf) / Well	117

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	75	2	77
Production	38	19	57
Net annual change	37	-17	20
Proved reserves	243	181	424

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	14	-87	-68
Production	12	368	357
Net annual change	2	-455	-425
Proved reserves	85	3,710	3,557

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	168	494,509	849,071
Gas	216	397,310	604,706
Dry	82	312,296	313,233

Marginal oil wells

Producing marginal wells	40,575
Crude oil production in bbls. (thous.)	25,673
Crude oil production b/d (thous.)	70

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	20,006
Natural gas production (MMcf)	264,373

Mineral lease royalties, bonuses & rent

Oil	\$ 4,353,771
Gas	\$ 6,260,592
Total Royalties	\$11,843,264

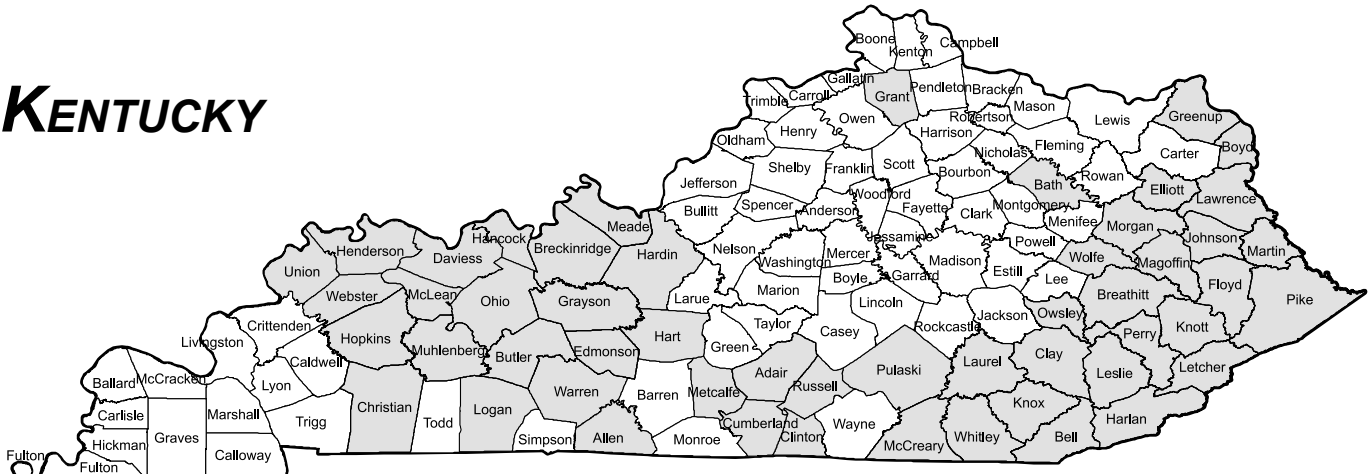
Horizontal wells drilled	2
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Average number of employees

Oil and natural gas extraction	9,052
Refining	1,618
Transportation	2,689
Wholesale	2,219
Retail	9,789
Pipeline construction	1,334
Oilfield machinery	0
Total petroleum industry	26,701

Oil production has remained consistent in the Bemis-Shutts field. First discovered in 1928, 33 wells were completed there in 2008.

KENTUCKY



○ Counties with oil and/or gas production

Background Information

Counties

Number of counties	120
With oil and/or gas production	52

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 — 114,116 MMcf	2008

Deepest producing well (ft.)

Crude oil	NA
Natural gas	NA

Year and depth of deepest well drilled (ft.)

2000	24,951
------	--------

Cumulative number of total wells drilled

as of 12/31/08 (excluding service wells)

Oil wells	32,152	32%
Gas wells	24,501	25%
Dry holes	42,126	43%
Total	98,779	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$) \$17,965,242

Cumulative production & new reserves

as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	764	273	1,037	7,989
Production	761	161	922	5,450

Value of Oil and Gas

Average wellhead price

(2008)

Crude oil (\$/bbl.)	\$90.87
Natural gas (\$/Mcf)	\$ 8.42

Wellhead value of production

(2008, in thous. \$)

Crude oil	\$ 240,351
Natural gas	\$ 960,857
Total	\$1,201,208

Average natural gas price

(2008, \$/Mcf)

Residential consumers	\$13.84
Commercial consumers	\$13.25
Industrial consumers	\$10.41
Electric utilities	NA
City Gate	\$10.14

Severance taxes paid

(2008, in thous. \$)

\$55,036

Top 10 producing counties

(2008 on a BOE basis)

County	% Production	
	State	US
Henderson	31.1	0.01
Union	25.3	0.01
Muhlenberg	9.9	<0.01
Hopkins	7.6	<0.01
Daviess	7.5	<0.01
Webster	7.3	<0.01
Ohio	5.3	<0.01
McLean	3.5	<0.01
Christian	1.5	<0.01
Hancock	0.5	<0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	38	228	266
Gas	209	395	604
Dry	106	262	368
Total	353	885	1,238

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	75.4	337.6	413.0
Gas	789.3	1,790.8	2,580.2
Dry	161.5	409.1	570.6
Total	1,026.2	2,537.5	3,563.8

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

New-field wildcats drilled

Footage (thous. ft.)	138	388.2
----------------------	-----	-------

Average rotary rigs active

10

Permits

2,400

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	12th	11th
Production	21st	18th
Reserves (2008)	21st	16th

Number of operators

272

Number of producing wells

(12/31/08)

Crude oil*	18,343
Natural gas	13,727
Total*	32,070

Average production

Crude oil (thous. b/d)	3
NGL (thous. b/d)	0
Natural gas (MMcf/day)	260

Total production

Crude oil (YTD bbls, in thous.)	1,034
Natural gas (YTD MMcf)	95,013

Natural gas marketed production

(MMcf)	114,116
--------	---------

Average output per producing well

Crude oil (bbls.)	56
Natural gas (Mcf)	6,922

Coalbed methane (YTD MMcf)

148

Oil Wells	0
Gas Wells	17
Daily Average (MMcf) / Well	.4

Heavy oil (YTD bbls, in thous.)

NA

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

Source: For specific methodology and source details, please see pages 6 and 131.

* World Oil for Number of oil producing wells.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-6	14	8
Production	1	3	4
Net annual change	-7	11	4
Proved reserves	17	100	117

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	0	355	338
Production	0	97	93
Net annual change	0	258	245
Proved reserves	34	2,812	2,714

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	263	408,678	108,708
Gas	157	671,026	405,300
Dry	213	329,611	121,297

Marginal oil wells

Producing marginal wells	13,727
Crude oil production in bbls. (thous.)	740
Crude oil production b/d (thous.)	3

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	13,727
Natural gas production (MMcf)	83,858

Mineral lease royalties, bonuses & rent

Oil	\$ 272,742
Gas	\$ 233,443
Total Royalties	\$ 2,005,207

Horizontal wells drilled

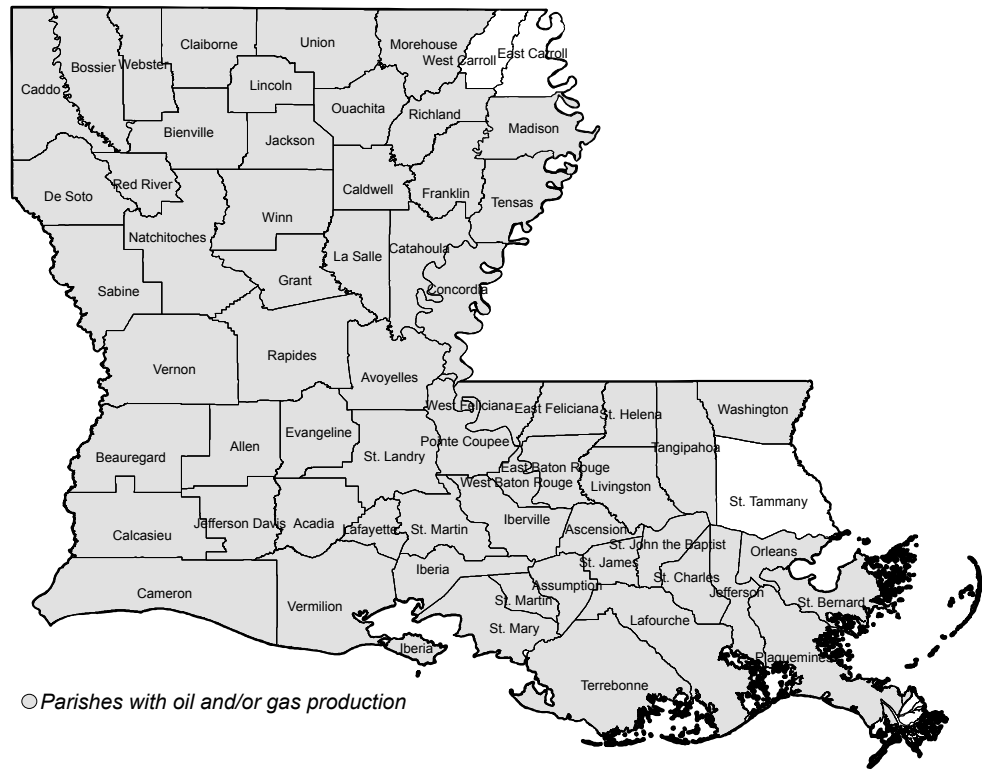
184

Average number of employees

Oil and natural gas extraction	2,494
Refining	1,115
Transportation	1,781
Wholesale	3,026
Retail	18,462
Pipeline construction	1,129
Oilfield machinery	0
Total petroleum industry	28,007

Gas production in Catron Creek field has increased over 300% from 1997 through 2008. An additional 37 wells were completed here in 2008.

LOUISIANA



○ Parishes with oil and/or gas production

Background Information

Parishes

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

First year of production

Crude oil	1902
Natural gas	1905

Year and amount of peak production

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

Deepest producing well (ft.)

Crude oil	22,856
Natural gas	23,903

Year and depth of deepest well drilled (ft.)

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

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	83,278	40%
Gas wells	49,779	24%
Dry holes	76,125	36%
Total	209,182	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$) \$273,241,451

Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	27,806	6,422	34,228	270,976
Production	18,762	4,652	23,414	148,929

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$100.74
Natural gas (\$/Mcf)	\$ 8.73

Wellhead value of production (2008, in thous. \$)

Crude oil	\$ 7,355,128
Natural gas	\$ 12,024,667
Total	\$ 19,379,795

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$ 15.49
Commercial consumers	\$ 13.52
Industrial consumers	\$ 9.32
Electric utilities	\$ 10.01
City Gate	\$ 9.58

Severance taxes paid (2008, in thous. \$)

Top 10 producing parishes (2008 on a BOE basis)

County	% Production	
	State	US
Plaquemine	9.82	0.53
Bossier	9.27	0.50
De Soto	7.45	0.40
Terrebonne	7.04	0.38
Bienville	6.19	0.33
Caddo	5.88	0.31
Vermillion	5.72	0.31
Cameron	5.56	0.30
Jackson	4.17	0.22
St. Mary	4.09	0.22

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	2	358	360
Gas	10	1,094	1,104
Dry	44	262	306
Total	56	1,714	1,770

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	31.5	1,829.3	1,860.7
Gas	96.8	11,208.0	11,304.7
Dry	342.7	2,204.8	2,547.4
Total	470.9	15,242.0	15,712.9

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

New-field wildcats drilled	30
Footage (thous. ft.)	258.1

Average rotary rigs active	167
----------------------------	-----

Permits	2,688
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	6th	5th
Production	5th	6th
Reserves (2008)	9th	7th

Number of operators	1,040
---------------------	-------

Number of producing wells

(12/31/08)

Crude oil	18,156
Natural gas	11,879
Total	30,035

Average production

Crude oil (thous. b/d)	132.9
NGL (thous. b/d)	66.3
Natural gas (MMcf/day)	3,557.4

Total production

Crude oil (YTD bbls, in thous.)	48,626
Natural gas (YTD MMcf)	1,302,007

Natural gas marketed production

(MMcf)	1,377,396
--------	-----------

Average output per producing well

Crude oil (bbls.)	2,678
Natural gas (Mcf)	109,606

Coalbed methane (YTD MMcf)	NA
----------------------------	----

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

Heavy oil (YTD bbls, in thous.)	22,164
---------------------------------	--------

Wells	11,448
Av. bbls per day	60.6
Av. bbls per well/d	1,936

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08(mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-16	44	28
Production	54	47	101
Net annual change	-70	-3	-73
Proved reserves	388	300	688

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	701	2,176	2,847
Production	107	1,246	1,319
Net annual change	594	930	1,528
Proved reserves	1,235	10,581	11,573

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	877	4,532,613	1,631,741
Gas	678	6,944,747	7,667,000
Dry	631	5,251,329	1,606,907

Marginal oil wells

Producing marginal wells	16,086
Crude oil production in bbls. (thous.)	9,781
Crude oil production b/d (thous.)	27

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	5,454
Natural gas production (MMcf)	54,796

Mineral lease royalties, bonuses & rent

Oil	\$ 7,053,781
Gas	\$42,065,703
Total Royalties	\$55,154,986

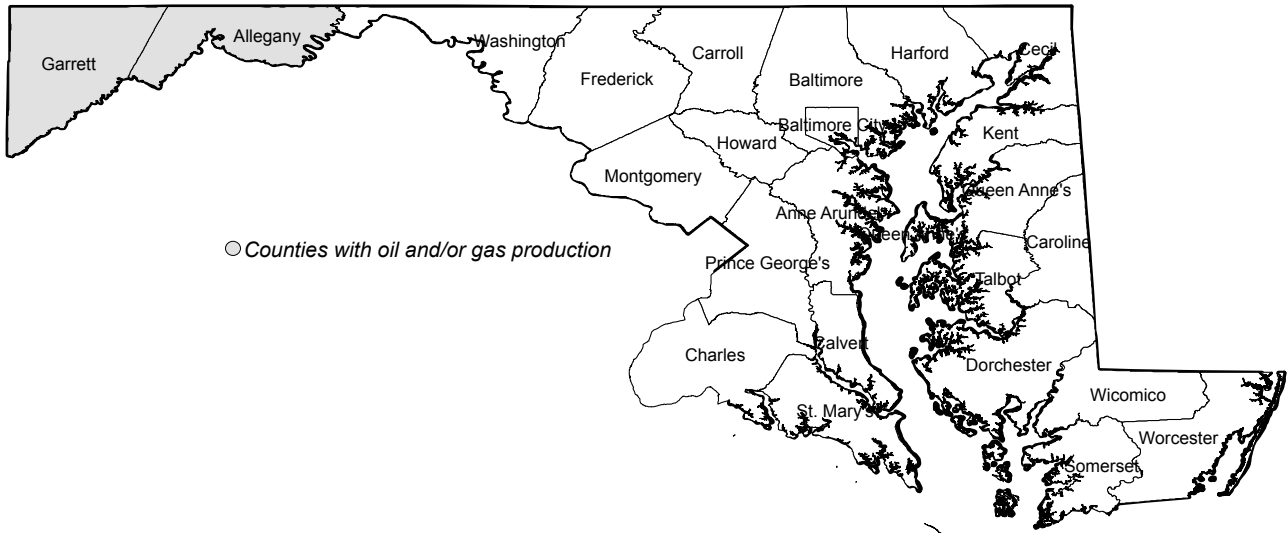
Horizontal wells drilled	85
--------------------------	----

Average number of employees

Oil and natural gas extraction	51,336
Refining	10,874
Transportation	4,158
Wholesale	3,921
Retail	17,927
Pipeline construction	17,336
Oilfield machinery	8,898
Total petroleum industry	114,450

Discovered in 1916, Elm Grove field in Louisiana is the top producing gas field in 2008. Over 180 wells were completed in 2008 to help add to the over 140 million MCFs of gas produced.

MARYLAND



Background Information

Counties

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

First year of production

Crude oil	--
Natural gas	1950

Year and amount of peak production

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

Deepest producing well (ft.)

Crude oil	NA
Natural gas	NA

Year and depth of deepest well drilled (ft.)

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

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

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

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

NA

Cumulative production & new reserves as of 12/31/08

	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 (2008)

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

Wellhead value of production (2008, in thous. \$)

Crude oil	NA
Natural gas	NA
Total	NA

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$16.08
Commercial consumers	\$13.14
Industrial consumers	\$13.46
Electric utilities	\$11.16
City Gate	\$10.23

Severance taxes paid (2008, in thous. \$)

\$1

Top producing counties (2008 on a BOE basis)

County	% Production	
	State	US
NA	NA	NA

2008 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

0

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	NA	29th
Production	NA	32nd
Reserves (2008)	NA	NA

Number of operators

--

Number of producing wells*

(12/31/08)

Crude oil	NA
Natural gas	8
Total	8

Average production

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

Total production

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

Natural gas marketed production

(MMcf)	28
--------	----

Average output per producing well

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

Coalbed methane (YTD MMcf)

NA

Oil Wells

NA

Gas Wells

NA

Daily Average (MMcf) / Well

NA

Heavy oil (YTD bbls, in thous.)

NA

Wells

NA

Av. bbls per day

NA

Av. bbls per well/d

NA

Source: For specific methodology and source details, please see pages 6 and 131.

* World Oil for Number of natural gas producing wells.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (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 12/31/08 (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 12/31/08

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral lease royalties, bonuses & rent

Oil	--
Gas	--
Total Royalties	\$10,882

Horizontal wells drilled

0

Average number of employees

Oil and natural gas extraction	677
Refining	765
Transportation	665
Wholesale	3,292
Retail	9,709
Pipeline construction	1,203
Oilfield machinery	0
Total petroleum industry	16,311

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

MICHIGAN



Background Information

Counties

Number of counties	83
With oil and/or gas production	59

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 12/31/08 (excluding service wells)

Oil wells	15,377	27%
Gas wells	14,325	25%
Dry holes	26,790	48%
Total	56,492	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

	\$15,742,628
--	--------------

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,285	318	1,603	9,862
Production	1,248	241	1,489	5,901

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$95.75
Natural gas (\$/Mcf)	\$ 5.63

Wellhead value of production (2008, in thous. \$)

Crude oil	\$ 595,852
Natural gas	\$1,532,255
Total	\$2,128,107

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$11.93
Commercial consumers	\$10.66
Industrial consumers	\$10.26
Electric utilities	\$ 8.75
City Gate	\$ 9.22

Severance taxes paid (2008, in thous. \$)

	\$103,928
--	-----------

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Otsego	22.14	0.14
Montmorency	21.16	0.13
Antrim	14.07	0.09
Alpena	6.97	0.04
Manistee	4.71	0.03
Oscoda	3.96	0.02
Kalkaska	3.01	0.02
Alcona	2.44	0.01
Calhoun	2.37	0.01
Crawford	2.13	0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	20	64	84
Gas	8	353	361
Dry	24	33	57
Total	52	450	502

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	89.4	280.2	369.6
Gas	51.3	653.3	704.6
Dry	109.1	92.7	201.8
Total	249.8	1,026.3	1,276.1

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

New-field wildcats drilled	34
Footage (thous. ft.)	176.1

Average rotary rigs active	1
----------------------------	---

Permits	1,093
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	15th	13th
Production	17th	13th
Reserves (2008)	16th	15th

Number of operators	175
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	3,755
Natural gas	10,050
Total	13,805

Average production

Crude oil (thous. b/d)	16.5
NGL (thous. b/d)	1.9
Natural gas (MMcf/day)	398.6

Total production

Crude oil (YTD bbls, in thous.)	6,023
Natural gas (YTD MMcf)	145,875

Natural gas marketed production

(MMcf)	272,159
--------	---------

Average output per producing well

Crude oil (bbls.)	1,604
Natural gas (Mcf)	14,515

Coalbed methane (YTD MMcf)	NA
----------------------------	----

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

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-1	10	9
Production	6	3	9
Net annual change	-7	7	0
Proved reserves	48	62	110

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-15	-262	-299
Production	16	145	157
Net annual change	-31	-407	-456
Proved reserves	148	3,105	3,174

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	654	2,876,842	241,655
Gas	837	1,633,882	589,831
Dry	372	1,316,600	75,046

Marginal oil wells

Producing marginal wells	3,590
Crude oil production in bbls. (thous.)	3,393
Crude oil production b/d (thous.)	9

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	9,808
Natural gas production (MMcf)	126,805

Mineral lease royalties, bonuses & rent

Oil	\$ 604,586
Gas	\$3,139,272
Total Royalties	\$4,255,574

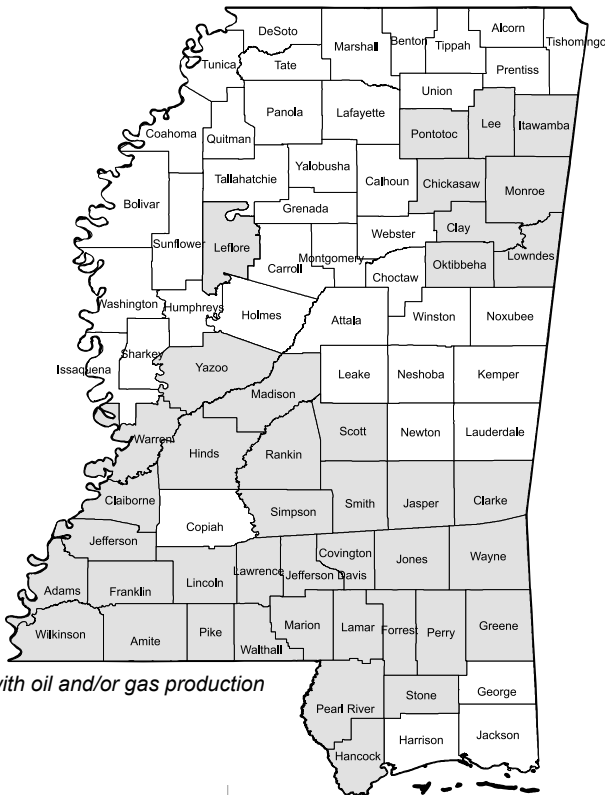
Horizontal wells drilled	99
--------------------------	----

Average number of employees

Oil and natural gas extraction	2,715
Refining	1,283
Transportation	3,985
Wholesale	4,947
Retail	24,309
Pipeline construction	652
Oilfield machinery	0
Total petroleum industry	37,891

Antrim field in Michigan was discovered in the late 1960s. By 2008, the field was producing over 90% of the state's total gas.

MISSISSIPPI



Background Information

Counties

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

First year of production

Crude oil	1889
Natural gas	1923

Year and amount of peak production

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

Deepest producing well (ft.)

Crude oil	22,430
Natural gas	23,894

Year and depth of deepest well drilled (ft.)

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

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	10,936	33%
Gas wells	4,302	13%
Dry holes	18,067	54%
Total	33,305	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

	\$24,434,411
--	--------------

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	2,807	133	2,940	10,138
Production	2,583	151	2,734	9,173

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$94.60
Natural gas (\$/Mcf)	\$ 8.80

Wellhead value of production (2008, in thous. \$)

Crude oil	\$2,090,849
Natural gas	\$ 850,441
Total	\$2,941,290

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$13.96
Commercial consumers	\$12.48
Industrial consumers	\$10.37
Electric utilities	\$ 9.62
City Gate	\$ 9.91

Severance taxes paid (2008, in thous. \$)

	\$129,821
--	-----------

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Rankin	48.89	0.75
Jasper	7.13	0.11
Wayne	5.78	0.09
Lincoln	5.40	0.08
Jefferson Davis	5.24	0.08
Madison	4.37	0.07
Covington	3.27	0.05
Jones	3.04	0.05
Lamar	2.71	0.04
Pike	1.81	0.03

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	1	91	92
Gas	5	113	118
Dry	26	37	63
Total	32	241	273

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	5.5	770.6	776.1
Gas	35.3	1,056.5	1,091.7
Dry	219.8	332.8	552.6
Total	260.5	2,160.0	2,420.4

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

New-field wildcats drilled

Footage (thous. ft.)	25
----------------------	----

Average rotary rigs active

13

Permits

542

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	19th	21st
Production	13th	20th
Reserves (2008)	14th	19th

Number of operators

201

Number of producing wells

(12/31/08)

Crude oil	2,082
Natural gas	1,786
Total	3,868

Average production

Crude oil (thous. b/d)	57
NGL (thous. b/d)	3.9
Natural gas (MMcf/day)	906.3

Total production

Crude oil (YTD bbls, in thous.)	20,859
Natural gas (YTD MMcf)	331,699

Natural gas marketed production

(MMcf)	96,641
--------	--------

Average output per producing well

Crude oil (bbls.)	10,019
Natural gas (Mcf)	185,722

Coalbed methane (YTD MMcf)

NA

Oil Wells

NA

Gas Wells

NA

Daily Average (MMcf) / Well

NA

Heavy oil (YTD bbls, in thous.)

1,653

Wells

254

Av. bbls per day

4.5

Av. bbls per well/d

6,507

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	70	1	71
Production	21	1	22
Net annual change	49	0	49
Proved reserves	249	9	258

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	21	166	186
Production	6	104	110
Net annual change	15	62	76
Proved reserves	45	990	1,030

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	730	6,160,795	566,793
Gas	734	6,789,863	801,204
Dry	554	4,857,974	306,052

Marginal oil wells

Producing marginal wells	1,126
Crude oil production in bbls. (thous.)	2,522
Crude oil production b/d (thous.)	7

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	1,286
Natural gas production (MMcf)	16,358

Mineral lease royalties, bonuses & rent

Oil	\$ 2,990,267
Gas	\$ 391,663
Total Royalties	\$ 4,011,949

Horizontal wells drilled

47

Average number of employees

Oil and natural gas extraction	4,297
Refining	2,094
Transportation	1,617
Wholesale	2,268
Retail	15,304
Pipeline construction	3,655
Oilfield machinery	84
Total petroleum industry	29,319

Discovered in 1946, Mallalieu West field in Mississippi is the highest producing oil field in 2008. Four wells were completed in the field in 2008.

Source: For specific methodology and source details, please see pages 6 and 131.

MISSOURI



Background Information

Counties

Number of counties	114
With oil and/or gas production	6

First year of production

Crude oil	1889
Natural gas	1887

Year and amount of peak production

Crude oil —285 thous. bbls.	1984
Natural gas —1,368 MMcf	1938

Deepest producing well (ft.)

Crude oil	NA
Natural gas	NA

Year and depth of deepest well drilled (ft.)

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

Cumulative number of total wells drilled as of 12/31/08 (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 12/31/08 (thous. \$)

	\$118,220
--	-----------

Cumulative production & new reserves as of 12/31/08

	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 (2008)

Crude oil (\$/bbl.)	\$83.96
Natural gas (\$/Mcf)	NA

Wellhead value of production (2008, in thous. \$)

Crude oil	\$8,312
Natural gas	NA
Total	\$8,312

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$13.36
Commercial consumers	\$12.02
Industrial consumers	\$11.32
Electric utilities	NA
City Gate	\$ 8.03

Severance taxes paid (2008, in thous. \$)

	--
--	----

Top producing counties (2008 on a BOE basis)

County	% Production	
	State	US
NA	NA	NA

2008 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

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	27th	30th
Production	30th	NA
Reserves (2008)	NA	NA

Number of operators

--

Number of producing wells*

(12/31/08)

Crude oil	425
Natural gas	47
Total	472

Average production

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

Total production

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

Natural gas marketed production

(MMcf)

0

Average output per producing well

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

Coalbed methane (YTD MMcf)

NA

Oil Wells

NA

Gas Wells

NA

Daily Average (MMcf) / Well

NA

Heavy oil (YTD bbls, in thous.)

NA

Wells

NA

Av. bbls per day

NA

Av. bbls per well/d

NA

Source: For specific methodology and source details, please see pages 6 and 131.

* World Oil for Number of oil and natural gas producing wells.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (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 12/31/08 (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 12/31/08

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral lease royalties, bonuses & rent

Oil	--
Gas	--
Total Royalties	\$17,806,274

Horizontal wells drilled

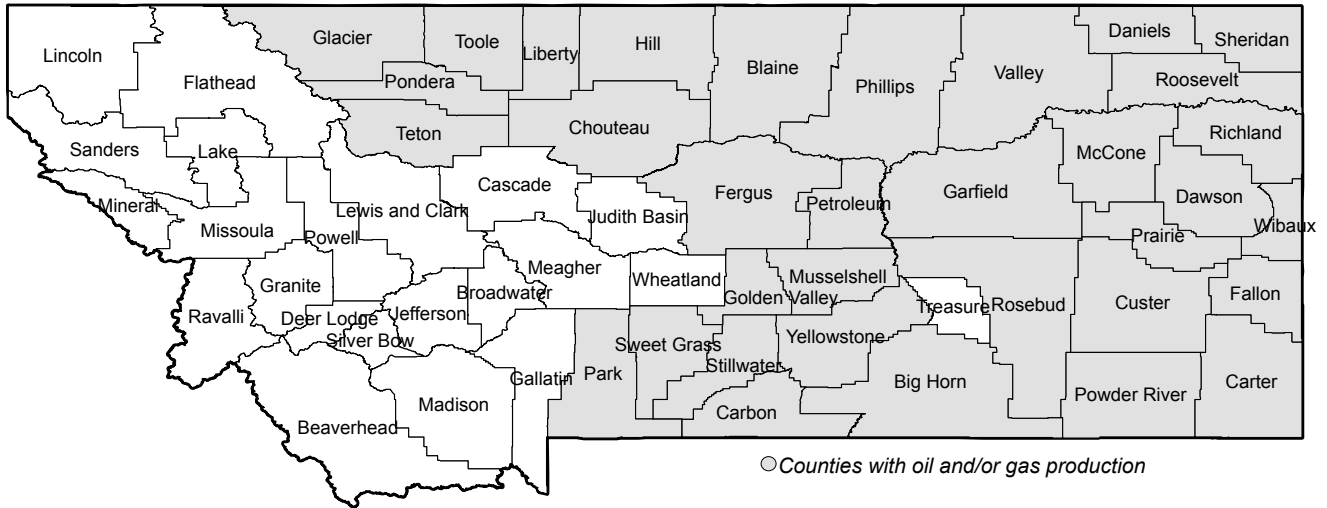
0

Average number of employees

Oil and natural gas extraction	601
Refining	501
Transportation	3,440
Wholesale	4,027
Retail	25,182
Pipeline construction	430
Oilfield machinery	0
Total petroleum industry	34,181

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

MONTANA



Background Information

Counties

Number of counties	56
With oil and/or gas production	34

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 — 116,848 MMcf	2007

Deepest producing well (ft.)

Crude oil	22,625
Natural gas	19,999

Year and depth of deepest well drilled (ft.)

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

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	15,094	35%
Gas wells	10,549	25%
Dry holes	17,426	40%
Total	43,069	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$24,788,840

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,989	57	2,046	4,632
Production	1,680	47	1,727	3,568

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$ 89.96
Natural gas (\$/Mcf)	\$ 7.50

Wellhead value of production (2008, in thous. \$)

Crude oil	\$2,837,788
Natural gas	\$ 843,968
Total	\$3,681,756

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$11.45
Commercial consumers	\$11.32
Industrial consumers	\$11.04
Electric utilities	NA
City Gate	\$ 7.71

Severance taxes paid (2008, in thous. \$)

\$327,932

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Richland	39.45	0.35
Fallon	21.25	0.19
Phillips	6.27	0.06
Big Horn	5.52	0.05
Blaine	4.16	0.04
Sheridan	3.79	0.03
Hill	3.45	0.03
Roosevelt	2.99	0.03
Toole	2.21	0.02
Wibaux	1.78	0.02

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	63	107	170
Gas	50	297	347
Dry	32	23	55
Total	145	427	572

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	716.6	918.1	1,634.7
Gas	146.0	477.0	623.0
Dry	186.7	96.7	283.5
Total	1,049.3	1,491.8	2,541.1

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

New-field wildcats drilled	81
Footage (thous. ft.)	461.4

Average rotary rigs active	11
----------------------------	----

Permits	767
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	16th	14th
Production	11th	19th
Reserves (2008)	10th	20th

Number of operators	246
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	5,033
Natural gas	6,277
Total	11,310

Average production

Crude oil (thous. b/d)	86.0
NGL (thous. b/d)	0.3
Natural gas (MMcf/day)	213.7

Total production

Crude oil (YTD bbls, in thous.)	31,480
Natural gas (YTD MMcf)	78,197

Natural gas marketed production

(MMcf)	112,529
--------	---------

Average output per producing well

Crude oil (bbls.)	6,255
Natural gas (Mcf)	12,458

Coalbed methane (YTD MMcf)	14,064
----------------------------	--------

Oil Wells	2
Gas Wells	928
Daily Average (MMcf) / Well	38

Heavy oil (YTD bbls, in thous.)	266
---------------------------------	-----

Wells	84
Av. bbls per day	0.7
Av. bbls per well/d	3,170

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-57	1	-56
Production	32	1	33
Net annual change	-89	0	-89
Proved reserves	321	11	332

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	5	57	62
Production	27	88	114
Net annual change	-22	-31	-52
Proved reserves	197	817	1,000

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	558	5,360,703	911,319
Gas	450	808,477	280,541
Dry	543	2,799,436	153,969

Marginal oil wells

Producing marginal wells	3,066
Crude oil production in bbls. (thous.)	3,676
Crude oil production b/d (thous.)	10

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	5,625
Natural gas production (MMcf)	47,551

Mineral lease royalties, bonuses & rent

Oil	\$ 45,808,097
Gas	\$ 25,473,634
Total Royalties	\$125,176,757

Horizontal wells drilled	121
--------------------------	-----

Average number of employees

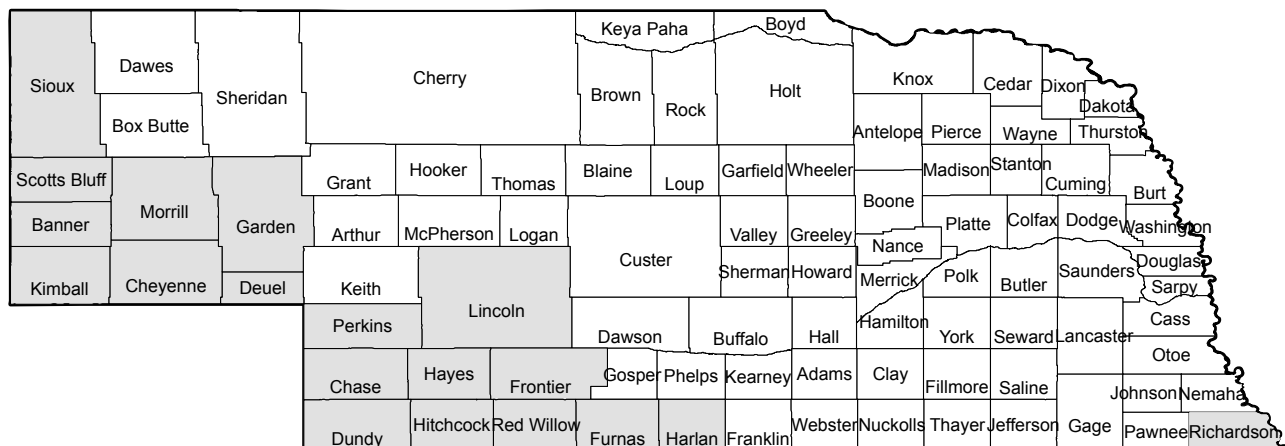
Oil and natural gas extraction	2,749
Refining	1,067
Transportation	781
Wholesale	969
Retail	5,556
Pipeline construction	417
Oilfield machinery	0
Total petroleum industry	11,539

Over 20% of the gas production in

Montana comes from the Cedar Creek field.

Discovered in the early 1900s, an additional 79 wells were completed in 2008 to contribute to the top producing field in the state.

NEBRASKA



○ Counties with oil and/or gas production

Background Information

Counties

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

First year of production

Crude oil	1939
Natural gas	1950

Year and amount of peak production

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

Deepest producing well (ft.)

Crude oil	11,761
Natural gas	5,832

Year and depth of deepest well drilled (ft.)

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

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	6,093	30%
Gas wells	554	3%
Dry holes	13,555	67%
Total	20,202	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$4,727,239

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	510	NA	510	NA
Production	507	NA	507	NA

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$87.99
Natural gas (\$/Mcf)	\$6.22

Wellhead value of production (2008, in thous. \$)

Crude oil	\$210,648
Natural gas	\$19,170
Total	\$229,818

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$ 11.11
Commercial consumers	\$ 9.62
Industrial consumers	\$ 9.12
Electric utilities	NA
City Gate	\$ 8.12

Severance taxes paid (2008, in thous. \$)

\$5,855

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Kimball	24.42	0.01
Hitchcock	18.74	0.01
Dundy	11.52	0.01
Cheyenne	11.27	0.01
Red Willow	10.12	0.01
Chase	5.02	<0.01
Banner	4.95	<0.01
Deuel	4.84	<0.01
Morrill	2.26	<0.01
Hayes	1.65	<0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	9	24	33
Gas	18	110	128
Dry	44	29	73
Total	71	163	234

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	39.6	124.9	164.5
Gas	52.7	262.7	315.5
Dry	182.8	109.3	292.1
Total	275.2	497.0	772.1

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

New-field wildcats drilled	54
Footage (thous. ft.)	203.2

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

Permits	315
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	23rd	25th
Production	22nd	26th
Reserves (2008)	24th	NA

Number of operators	106
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	1,234
Natural gas	328
Total	1,562

Average production

Crude oil (thous. b/d)	6.5
NGL (thous. b/d)	0.0
Natural gas (MMcf/day)	7.7

Total production

Crude oil (YTD bbls, in thous.)	2,389
Natural gas (YTD MMcf)	2,814

Natural gas marketed production

(MMcf) 3,082

Average output per producing well

Crude oil (bbls.)	1,936
Natural gas (Mcf)	8,578

Coalbed methane (YTD MMcf)	NA
----------------------------	----

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

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-4	NA	-4
Production	1	NA	1
Net annual change	-4	NA	-4
Proved reserves	8	NA	8

Natural gas reserves

as of 12/31/08 (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	259	1,290,034	42,571
Gas	408	1,006,413	128,821
Dry	178	712,331	52,000

Marginal oil wells

Producing marginal wells	1,178
Crude oil production in bbls. (thous.)	1,620
Crude oil production b/d (thous.)	4

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	325
Natural gas production (MMcf)	2,741

Mineral lease royalties, bonuses & rent

Oil	\$746,825
Gas	\$ 8,118
Total Royalties	\$798,953

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

Average number of employees

Oil and natural gas extraction	255
Refining	22
Transportation	1,882
Wholesale	1,236
Retail	8,815
Pipeline construction	372
Oilfield machinery	0
Total petroleum industry	12,582

First drilled in 1956, just over 400

barrels of oil were produced in Kleinholz field in Nebraska. In 2008, the field produced over 255,000 barrels as the top producing field in the state.

NEVADA



○ Counties with oil and/or gas production

Background Information

Counties

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

First year of production

Crude oil	1954
Natural gas	NA

Year and amount of peak production

Crude oil — 3,230 thous. bbls.	1988
Natural gas — 53 MMcf	1991

Deepest producing well (ft.)

Crude oil	8,050
Natural gas	NA

Year and depth of deepest well drilled (ft.)

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

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	122	13%
Gas wells	2	0%
Dry holes	788	87%
Total	912	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$)	\$913,428
----------------------------	-----------

Cumulative production & new reserves

as of 12/31/08

	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 (2008)

Crude oil (\$/bbl.)	\$91.48
Natural gas (\$/Mcf)	NA

Wellhead value of production (2008, in thous. \$)

Crude oil	39,885
Natural gas	NA
Total	39,885

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$13.33
Commercial consumers	\$11.21
Industrial consumers	\$11.10
Electric utilities	\$ 8.26
City Gate	\$ 9.44

Severance taxes paid (2008, in thous. \$)

\$907

Top producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Nye	89.98	0.01
Eureka	10.01	<0.01
Elko	0.01	<0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	NA	1	1
Gas	NA	NA	NA
Dry	4	NA	4
Total	4	1	5

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	5	5
Gas	NA	NA	NA
Dry	18.7	NA	18.7
Total	18.7	5	23.7

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

New-field wildcats drilled 4

Footage (thous. ft.) 18.7

Average rotary rigs active 3

Permits 123

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	31st	35th
Production	27th	33rd
Reserves (2008)	NA	NA

Number of operators 8

Number of producing wells

(12/31/08)

Crude oil	75
Natural gas	0
Total	75

Average production

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

Total production

Crude oil (YTD bbls, in thous.)	436
Natural gas (YTD MMcf)	0

Natural gas marketed production

(MMcf) 0

Average output per producing well

Crude oil (bbls.)	5,817
Natural gas (Mcf)	0

Coalbed methane (YTD MMcf) NA

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

Heavy oil (YTD bbls, in thous.) NA

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (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 12/31/08 (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	299	1,496,900	1,497
Gas	NA	NA	NA
Dry	238	1,114,418	4,458

Marginal oil wells

Producing marginal wells	49
Crude oil production in bbls. (thous.)	114
Crude oil production b/d (thous.)	0

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral lease royalties, bonuses & rent

Oil	\$ 4,357,855
Gas	--
Total Royalties	\$30,851,937

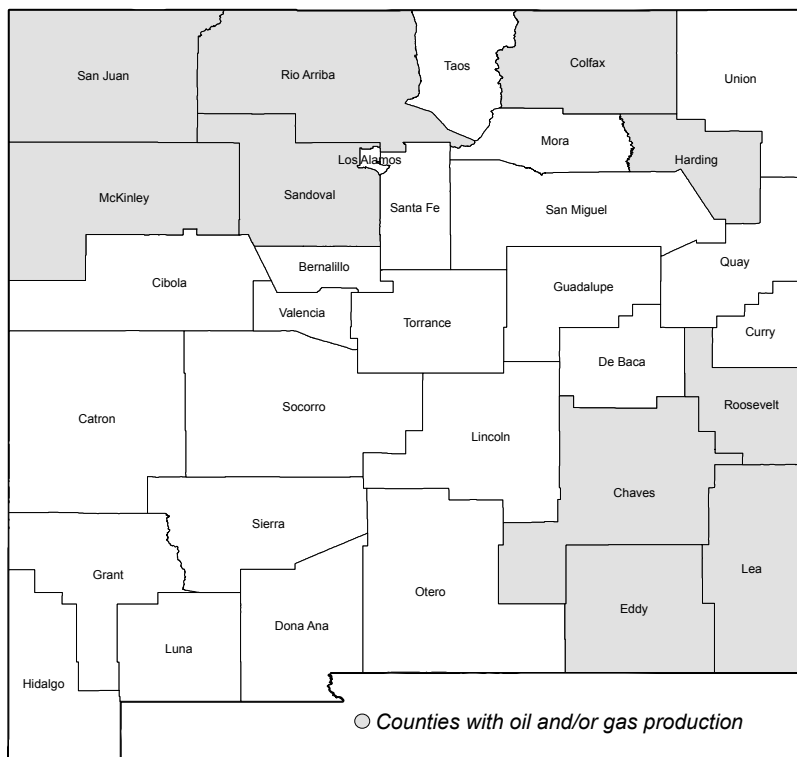
Horizontal wells drilled 0

Average number of employees

Oil and natural gas extraction	199
Refining	200
Transportation	0
Wholesale	770
Retail	8,190
Pipeline construction	321
Oilfield machinery	0
Total petroleum industry	9,680

Almost 40% of the oil production in Nevada is produced from the Trap Spring field. This field was discovered in the mid 1970s. One additional well was completed here in 2008.

NEW MEXICO



Background Information

Counties

Number of counties	33
With oil and/or gas production	10

First year of production

Crude oil	1911
Natural gas	1924

Year and amount of peak production

Crude oil — 129,227 thous. bbls.	1969
Natural gas — 1,689,125 MMcf	2001

Deepest producing well (ft.)

Crude oil	19,323
Natural gas	26,579

Year and depth of deepest well drilled (ft.)

1969	22,926
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	51,131	46%
Gas wells	40,775	37%
Dry holes	18,629	17%
Total	110,535	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$67,454,740

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	7,180	3,358	10,538	82,873
Production	6,594	2,449	9,043	66,585

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$96.23
Natural gas (\$/Mcf)	\$ 8.40

Wellhead value of production (2008, in thous. \$)

Crude oil	\$ 5,716,351
Natural gas	\$ 12,148,114
Total	\$ 17,864,465

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$12.23
Commercial consumers	\$10.39
Industrial consumers	\$10.27
Electric utilities	\$ 8.18
City Gate	\$ 7.05

Severance taxes paid (2008, in thous. \$)

\$ 1,282,483

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
San Juan	35.79	1.89
Rio Arriba	23.46	1.24
Eddy	18.92	1.00
Lea	17.85	0.94
Chaves	2.02	0.11
Colfax	1.68	0.09
Roosevelt	0.19	0.01
Sandoval	0.07	<0.01
McKinley	0.01	<0.01
Harding	0.01	<0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	32	666	698
Gas	20	893	913
Dry	17	60	77
Total	69	1,619	1,688

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	122.0	4,333.1	4,455.1
Gas	161.9	5,265.2	5,427.1
Dry	108.8	324.6	433.4
Total	392.7	9,922.9	10,315.5

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

New-field wildcats drilled	44
Footage (thous. ft.)	248.3

Average rotary rigs active	78
----------------------------	----

Permits	2,770
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	9th	8th
Production	8th	5th
Reserves (2008)	5th	5th

Number of operators	543
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	22,134
Natural gas	33,625
Total	55,759

Average production

Crude oil (thous. b/d)	149.3
NGL (thous. b/d)	15.6
Natural gas (MMcf/day)	3,397.3

Total production

Crude oil (YTD bbls, in thous.)	54,648
Natural gas (YTD MMcf)	1,243,420

Natural gas marketed production

(MMcf)	1,446,204
--------	-----------

Average output per producing well

Crude oil (bbls.)	2,469
Natural gas (Mcf)	36,979

Coalbed methane (YTD MMcf)	453,457
----------------------------	---------

Oil Wells	1
Gas Wells	5,847
Daily Average (MMcf) / Well	1,239

Heavy oil (YTD bbls, in thous.)	10
---------------------------------	----

Wells	31
Av. bbls per day	0.0
Av. bbls per well/d	321

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-27	31	4
Production	54	71	125
Net annual change	-81	-40	-121
Proved reserves	654	804	1,458

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	82	310	389
Production	168	1,274	1,349
Net annual change	-86	-964	-960
Proved reserves	1,755	15,592	16,285

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	329	2,102,908	1,467,830
Gas	311	1,848,582	1,687,755
Dry	387	2,179,971	167,858

Marginal oil wells

Producing marginal wells	18,576
Crude oil production in bbls. (thous.)	22,850
Crude oil production b/d (thous.)	62

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	23,068
Natural gas production (MMcf)	288,130

Mineral lease royalties, bonuses & rent

Oil	\$ 243,531,835
Gas	\$ 499,710,411
Total Royalties	\$ 1,450,308,320

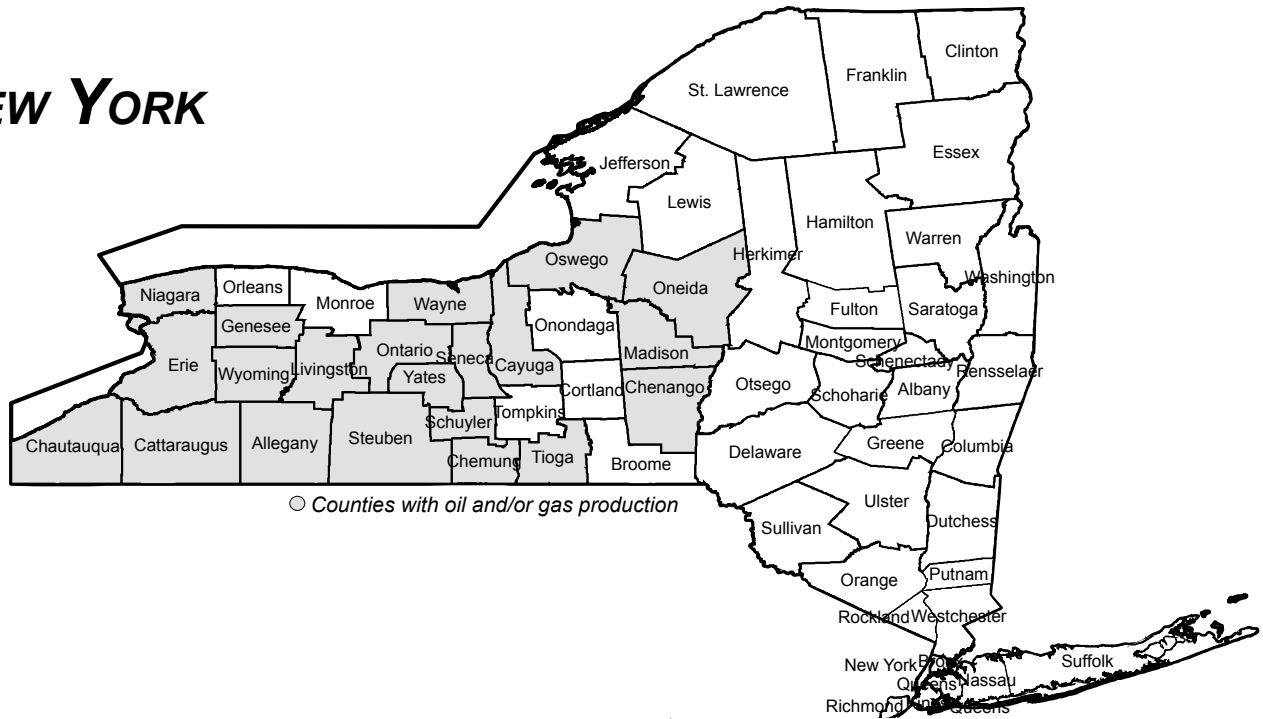
Horizontal wells drilled	188
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Average number of employees

Oil and natural gas extraction	15,982
Refining	830
Transportation	1,643
Wholesale	1,664
Retail	7,963
Pipeline construction	2,291
Oilfield machinery	168
Total petroleum industry	30,541

Almost 500 wells were completed in 2008 in Basin field in New Mexico to help add to the almost 50% of gas production for the state. This field was discovered in the early 1940s.

NEW YORK



○ Counties with oil and/or gas production

Background Information

Counties

Number of counties	62
With oil and/or gas production	21

First year of production

Crude oil	1865
Natural gas	1821

Year and amount of peak production

Crude oil — 6,685 thous. bbls.	1882
Natural gas — 55,980 MMcf	2006

Deepest producing well (ft.)

Crude oil	3,990
Natural gas	14,920

Year and depth of deepest well drilled (ft.)

2002	15,079
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	15,673	52%
Gas wells	10,355	35%
Dry holes	3,832	13%
Total	29,861	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$1,219,220

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	NA	NA	NA	1,674
Production	NA	NA	NA	1,299

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$109.78
Natural gas (\$/Mcf)	\$ 8.94

Wellhead value of production (2008, in thous. \$)

Crude oil	\$ 42,375
Natural gas	\$449,861
Total	\$492,236

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$16.75
Commercial consumers	\$12.86
Industrial consumers	\$12.30
Electric utilities	\$10.85
City Gate	\$10.07

Severance taxes paid (2008, in thous. \$)

--

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Steuben	35.75	0.06
Chemung	26.35	0.04
Chautauqua	14.16	0.02
Cattaraugus	5.73	0.01
Erie	3.82	0.01
Seneca	2.57	<0.01
Schuyler	2.24	<0.01
Tioga	2.16	<0.01
Cayuga	1.71	<0.01
Genesee	1.60	<0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	0	150	150
Gas	33	178	211
Dry	16	11	27
Total	49	339	388

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	0.0	241.5	241.5
Gas	173.8	573.5	747.3
Dry	127.1	54.2	181.3
Total	300.9	869.2	1,170.1

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

New-field wildcats drilled	35
Footage (thous. ft.)	236.9

Average rotary rigs active	6
----------------------------	---

Permits	709
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	14th	15th
Production	28th	23rd
Reserves (2008)	NA	23rd

Number of operators	453
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	2,816
Natural gas	7,391
Total	10,207

Average production

Crude oil (thous. b/d)	0.8
NGL (thous. b/d)	0.2
Natural gas (MMcf/day)	126.3

Total production

Crude oil (YTD bbls, in thous.)	294
Natural gas (YTD MMcf)	46,221

Natural gas marketed production

(MMcf)	50,320
--------	--------

Average output per producing well

Crude oil (bbls.)	104
Natural gas (Mcf)	6,254

Coalbed methane (YTD MMcf)	NA
----------------------------	----

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

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (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 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	22	41	61
Production	3	46	48
Net annual change	19	-5	13
Proved reserves	29	360	389

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	222	357,352	53,603
Gas	243	859,000	181,249
Dry	406	2,727,226	73,635

Marginal oil wells

Producing marginal wells	2,513
Crude oil production in bbls. (thous.)	294
Crude oil production b/d (thous.)	1

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	7,076
Natural gas production (MMcf)	13,604

Mineral lease royalties, bonuses & rent

Oil	--
Gas	\$12,925
Total Royalties	\$12,925

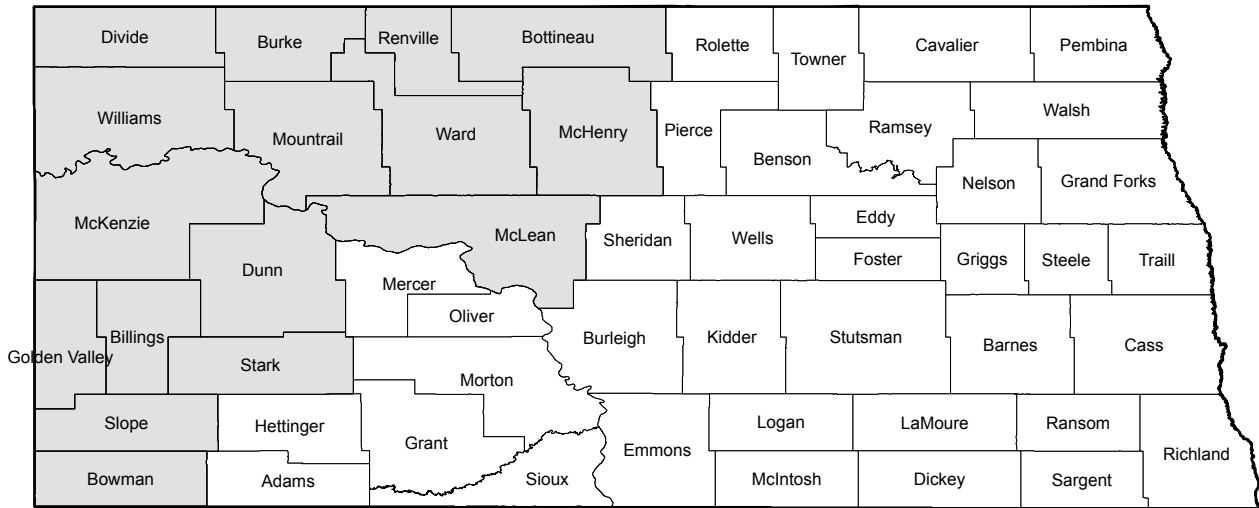
Horizontal wells drilled	17
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Average number of employees

Oil and natural gas extraction	1,650
Refining	459
Transportation	4,306
Wholesale	13,301
Retail	28,262
Pipeline construction	2,579
Oilfield machinery	0
Total petroleum industry	50,557

Discovered around the turn of the century, Bradford field in New York is the highest producing oil field in 2008. Just under 50 wells were completed in the year.

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 — 58,384 thous. bbls.	2008
Natural gas — 72,633 MMcf	1985

Deepest producing well (ft.)

Crude oil (25,828 MD horizontal)	20,540
Natural gas (21,070 MD horizontal)	15,300

Year and depth of deepest well drilled (ft.)

2007	21,727
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	10,751	60%
Gas wells	333	2%
Dry holes	6,772	38%
Total	17,856	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$35,948,107

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	2,206	264	2,470	2,951
Production	1,644	187	1,831	2,426

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$ 88.68
Natural gas (\$/Mcf)	\$ 8.55

Wellhead value of production (2008, in thous. \$)

Crude oil	\$ 5,566,976
Natural gas	\$ 525,286
Total	\$ 6,092,262

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$ 10.34
Commercial consumers	\$ 9.58
Industrial consumers	\$ 8.30
Electric utilities	NA
City Gate	\$ 8.03

Severance taxes paid (2008, in thous. \$)

\$ 534,700

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Bowman	26.98	0.34
Mountrail	25.32	0.32
McKenzie	11.74	0.15
Dunn	8.49	0.11
Williams	8.43	0.11
Billings	7.14	0.09
Bottineau	3.20	0.04
Stark	2.24	0.03
Burke	1.76	0.02
Divide	1.54	0.02

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	204	478	682
Gas	2	2	4
Dry	11	20	31
Total	217	500	717

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	2,936.3	5,974.2	8,910.5
Gas	27.9	16.0	43.8
Dry	105.3	131.5	236.8
Total	3,069.5	6,121.6	9,191.0

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

New-field wildcats drilled	87
Footage (thous. ft.)	1,191.1

Average rotary rigs active	68
----------------------------	----

Permits	1,187
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	20th	26th
Production	7th	22nd
Reserves (2008)	7th	22nd

Number of operators	153
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	4,198
Natural gas	347
Total	4,545

Average production

Crude oil (thous. b/d)	159.5
NGL (thous. b/d)	10.9
Natural gas (MMcf/day)	57.6

Total production

Crude oil (YTD bbls, in thous.)	58,384
Natural gas (YTD MMcf)	21,099

Natural gas marketed production

(MMcf)	61,437
--------	--------

Average output per producing well

Crude oil (bbls.)	13,908
Natural gas (Mcf)	60,803

Coalbed methane (YTD MMcf)	NA
----------------------------	----

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

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	155	4	159
Production	64	7	71
Net annual change	91	-3	88
Proved reserves	573	55	628

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	126	-22	95
Production	59	14	65
Net annual change	67	-36	30
Proved reserves	484	119	541

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	629	8,216,489	5,603,646
Gas	1,647	18,041,022	72,164
Dry	381	2,913,591	90,321

Marginal oil wells

Producing marginal wells	2,321
Crude oil production in bbls. (thous.)	5,224
Crude oil production b/d (thous.)	14

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	210
Natural gas production (MMcf)	2,342

Mineral lease royalties, bonuses & rent

Oil	\$ 85,837,476
Gas	\$ 8,086,387
Total Royalties	\$110,475,118

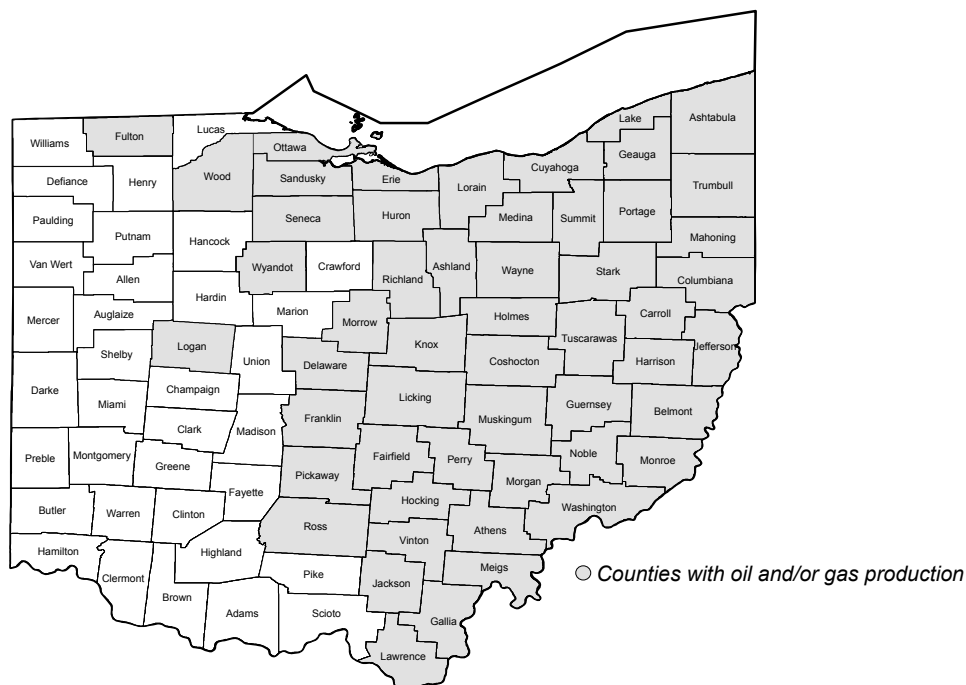
Horizontal wells drilled	675
--------------------------	-----

Average number of employees

Oil and natural gas extraction	5,184
Refining	0
Transportation	95
Wholesale	1,593
Retail	4,031
Pipeline construction	821
Oilfield machinery	0
Total petroleum industry	11,724

Discovered in the mid-1990s, Cedar

Hills field in North Dakota produced just over 10 Mcfs that year. In 2008, the field produced over 17 million Mcfs.



Background Information

Counties

Number of counties	88
With oil and/or gas production	53

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 12/31/08 (excluding service wells)

Oil wells	47,717	57%
Gas wells	24,090	29%
Dry holes	11,312	14%
Total	83,119	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$9,614,634

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,125	NA	1,125	9,666
Production	1,100	NA	1,100	9,041

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$96.43
Natural gas (\$/Mcf)	\$ 7.88

Wellhead value of production (2008, in thous. \$)

Crude oil	\$ 551,097
Natural gas	\$ 668,681
Total	\$1,219,778

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$14.52
Commercial consumers	\$12.79
Industrial consumers	\$12.71
Electric utilities	\$10.79
City Gate	\$10.41

Severance taxes paid (2008, in thous. \$)

\$ 2,501

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Stark	9.6	0.03
Tuscarawas	8.9	0.03
Trumbull	7.9	0.02
Mahoning	7.7	0.02
Portage	6.2	0.02
Muskingum	4.3	0.01
Wayne	4.3	0.01
Summit	4.0	0.01
Cuyahoga	3.9	0.01
Coshocton	3.4	0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	13	228	241
Gas	86	618	704
Dry	17	44	61
Total	116	890	1,006

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	48.7	835.1	883.8
Gas	364.5	2,419.4	2,783.9
Dry	66.6	160.5	227.1
Total	479.8	3,414.9	3,894.8

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

New-field wildcats drilled	34
Footage (thous. ft.)	116.1

Average rotary rigs active	12
----------------------------	----

Permits	1,398
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	10th	12th
Production	19th	21st
Reserves (2008)	17th	21st

Number of operators	667
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	17,742
Natural gas	23,384
Total	41,126

Average production

Crude oil (thous. b/d)	11.4
NGL (thous. b/d)	2.1
Natural gas (MMcf/day)	167.2

Total production

Crude oil (YTD bbls, in thous.)	4,175
Natural gas (YTD MMcf)	61,208

Natural gas marketed production

(MMcf)	84,858
--------	--------

Average output per producing well

Crude oil (bbls.)	235
Natural gas (Mcf)	2,618

Coalbed methane (YTD MMcf)	NA
----------------------------	----

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

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-6	NA	-6
Production	4	NA	4
Net annual change	-10	NA	-10
Proved reserves	38	NA	38

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	7	30	37
Production	9	70	79
Net annual change	-2	-40	-42
Proved reserves	99	886	985

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	138	505,248	121,765
Gas	140	552,600	389,030
Dry	157	584,265	35,640

Marginal oil wells

Producing marginal wells	15,679
Crude oil production in bbls. (thous.)	3,740
Crude oil production b/d (thous.)	10

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	22,862
Natural gas production (MMcf)	52,085

Mineral lease royalties, bonuses & rent

Oil	\$ 347,031
Gas	\$ 659,689
Total Royalties	\$1,014,331

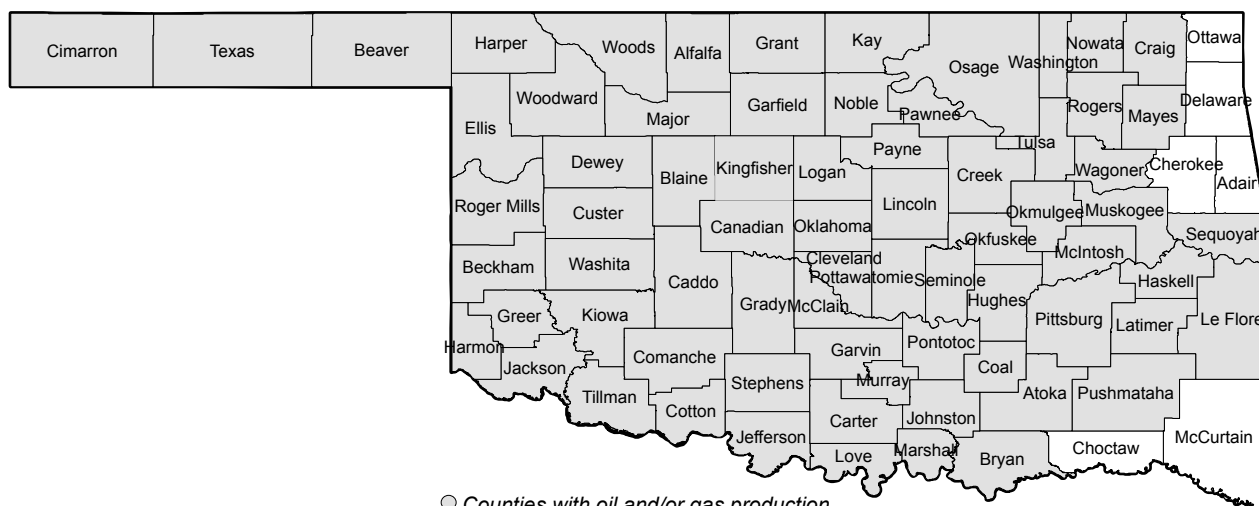
Horizontal wells drilled	12
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Average number of employees

Oil and natural gas extraction	5,371
Refining	2,430
Transportation	4,755
Wholesale	5,406
Retail	34,163
Pipeline construction	1,791
Oilfield machinery	209
Total petroleum industry	54,125

Canton Consolidated field in Ohio was discovered in the early 1980s. Over the last 25 years, gas production has grown over 200%. An additional 73 wells were completed in the field in 2008.

OKLAHOMA



○ Counties with oil and/or gas production

Background Information

Counties

Number of counties	77
With oil and/or gas production	71

First year of production

Crude oil	1891
Natural gas	1902

Year and amount of peak production

Crude oil — 277,775 thous. bbls.	1927
Natural gas — 2,153,852 MMcf	1991

Deepest producing well (ft.)

Crude oil	19,644
Natural gas	27,400

Year and depth of deepest well drilled (ft.)

1974	31,441
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	243,715	52%
Gas wells	87,168	19%
Dry holes	136,477	29%
Total	467,360	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$117,816,579

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	15,009	5,689	20,698	120,194
Production	14,576	4,520	19,096	114,123

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$96.15
Natural gas (\$/Mcf)	\$ 7.56

Wellhead value of production (2008 in thous. \$)

Crude oil	\$ 6,159,850
Natural gas	\$14,462,499
Total	\$20,622,349

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$12.32
Commercial consumers	\$11.54
Industrial consumers	\$13.03
Electric utilities	\$ 8.18
City Gate	\$ 8.40

Severance taxes paid (2008, in thous. \$)

\$ 1,266,655

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Roger Mills	7.17	0.48
Latimer	6.53	0.44
Pittsburg	6.45	0.43
Caddo	5.67	0.38
Beckham	4.90	0.33
Washita	4.71	0.31
Grady	3.98	0.27
Hughes	3.65	0.24
Texas	3.57	0.24
Stephens	3.43	0.23

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	140	1,190	1,330
Gas	428	2,058	2,486
Dry	104	259	363
Total	672	3,507	4,179

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	1,111.4	5,837.7	6,949.1
Gas	4,122.4	15,406.6	19,529.1
Dry	734.3	1,350.8	2,085.1
Total	5,968.0	22,595.2	28,563.2

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

New-field wildcats drilled	273
Footage (thous. ft.)	2,420.7

Average rotary rigs active	200
----------------------------	-----

Permits	5,667
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	2nd	2nd
Production	6th	4th
Reserves (2008)	6th	4th

Number of operators	3,880
---------------------	-------

Number of producing wells

(12/31/08)

Crude oil	41,382
Natural gas	39,800
Total	81,182

Average production

Crude oil (thous. b/d)	145.4
NGL (thous. b/d)	35
Natural gas (MMcf/day)	4,563.0

Total production

Crude oil (YTD bbls, in thous.)	53,234
Natural gas (YTD MMcf)	1,670,055

Natural gas marketed production

(MMcf)	1,913,029
--------	-----------

Average output per producing well

Crude oil (bbls.)	1,286
Natural gas (Mcf)	41,961

Coalbed methane (YTD MMcf)	52,389
----------------------------	--------

Oil Wells	0
Gas Wells	3,439
Daily Average (MMcf) / Well	143

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	111	176	287
Production	60	91	151
Net annual change	51	85	136
Proved reserves	581	1,034	1,615

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	124	3,688	3,589
Production	125	1,758	1,775
Net annual change	-1	1,930	1,184
Proved reserves	958	21,155	20,845

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	352	1,839,081	2,445,978
Gas	481	3,779,261	9,395,244
Dry	300	1,723,025	625,458

Marginal oil wells

Producing marginal wells	35,010
Crude oil production in bbls. (thous.)	23,856
Crude oil production b/d (thous.)	65

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	28,135
Natural gas production (MMcf)	331,595

Mineral lease royalties, bonuses & rent

Oil	\$ 16,746,385
Gas	\$ 37,456,418
Total Royalties	\$ 62,020,659

Horizontal wells drilled	1,056
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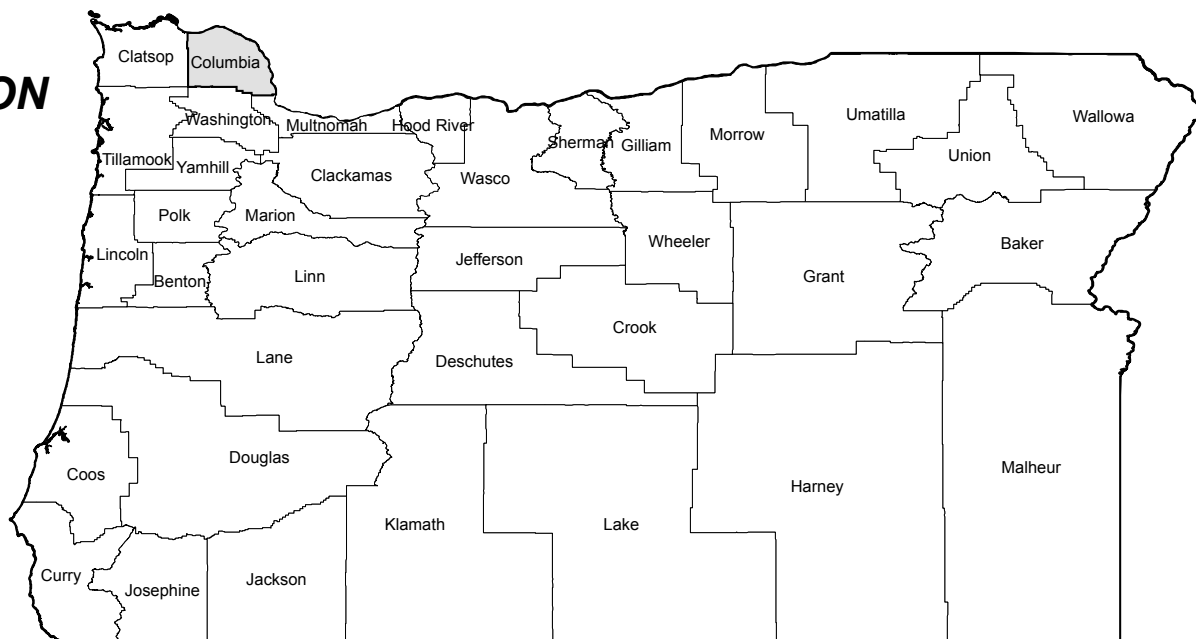
Average number of employees

Oil and natural gas extraction	50,158
Refining	2,081
Transportation	5,699
Wholesale	3,518
Retail	13,878
Pipeline construction	2,298
Oilfield machinery	8,284
Total petroleum industry	85,916

Although drilling continued in 2008

in Sho-Vel-Tum field in Oklahoma with 125 completed wells, production has fallen off since the field was discovered in the early 1900s. The field is still the top producing oil field in the state with over 8 million barrels produced.

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 12/31/08 (excluding service wells)

Oil wells	NA	NA
Gas wells	69	16%
Dry holes	363	84%
Total	432	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

NA

Cumulative production & new reserves as of 12/31/08

	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 (2008)

Crude oil (\$/bbl.)	NA
Natural gas (\$/Mcf)	\$5.33

Wellhead value of production (2008, in thous. \$)

Crude oil	NA
Natural gas	\$ 4,147
Total	\$ 4,147

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$ 13.89
Commercial consumers	\$ 11.57
Industrial consumers	\$ 9.07
Electric utilities	\$ 7.08
City Gate	\$ 8.82

Severance taxes paid (2008, in thous. \$)

\$ 364

Top producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Columbia	100	<0.01

2008 Industry Statistics

Number of wells drilled

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

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	2.7	2.7
Dry	NA	NA	NA
Total	NA	2.7	2.7

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

New-field wildcats drilled

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

Average rotary rigs active

1

Permits

1

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	NA	31st
Production	NA	30th
Reserves (2008)	NA	NA

Number of operators

2

Number of producing wells

(12/31/08)

Crude oil	0
Natural gas	21
Total	21

Average production

Crude oil (thous. b/d)	0
NGL (thous. b/d)	0
Natural gas (MMcf/day)	1.8

Total production

Crude oil (YTD bbls, in thous.)	0
Natural gas (YTD MMcf)	663

Natural gas marketed production

(MMcf)

778

Average output per producing well

Crude oil (bbls.)	NA
Natural gas (Mcf)	31,595

Coalbed methane (YTD MMcf)

NA

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

Heavy oil (YTD bbls, in thous.)

NA

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (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 12/31/08 (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	472	1,283,894	1,284
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 12/31/08

Producing marginal wells	15
Natural gas production (MMcf)	258

Mineral lease royalties, bonuses & rent

Oil	--
Gas	--
Total Royalties	\$559,992

Horizontal wells drilled

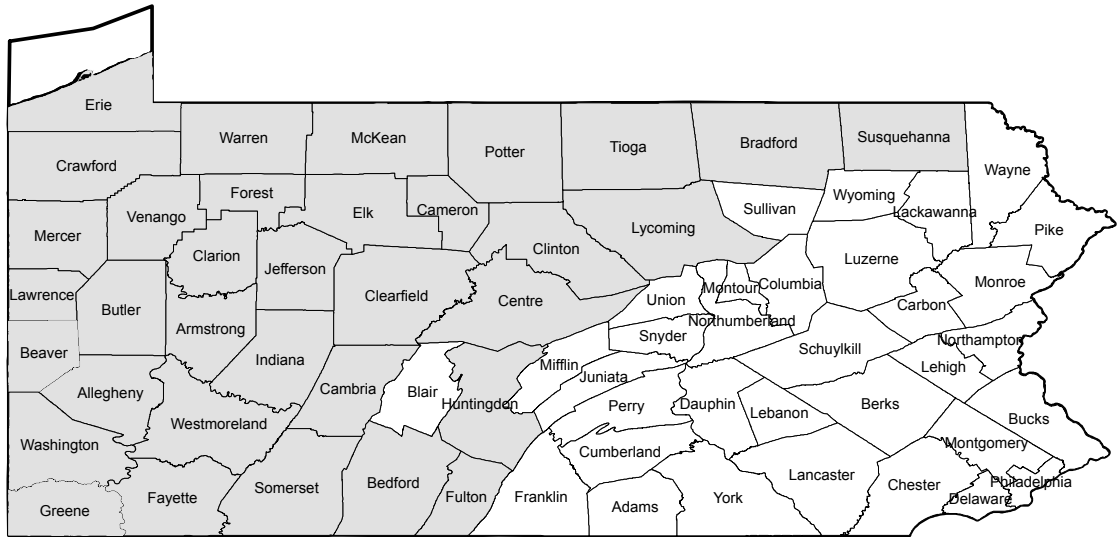
0

Average number of employees

Oil and natural gas extraction	32
Refining	404
Transportation	1,259
Wholesale	1,663
Retail	10,325
Pipeline construction	304
Oilfield machinery	0
Total petroleum industry	13,987

100% of the gas production in Oregon comes from the Mist field. Since the discovery in the late 1970s with production under 2,000 MCFs, the field produced over 660,000 MCFs in 2008.

PENNSYLVANIA



○ Counties with oil and/or gas production

Background Information

Counties

Number of counties	67
With oil and/or gas production	34

First year of production

Crude oil	1859
Natural gas	1881

Year and amount of peak production

Crude oil — 31,424 thous. bbls.	1891
Natural gas — 200,907 MMcf	2000

Deepest producing well (ft.)

Crude oil	NA
Natural gas	NA

Year and depth of deepest well drilled (ft.)

1974	21,432
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	57,413	43%
Gas wells	70,496	52%
Dry holes	6,975	5%
Total	134,885	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$5,882,821

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,366	NA	1,366	16,870
Production	1,361	NA	1,361	13,483

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$96.76
Natural gas (\$/Mcf)	NA

Wellhead value of production (2008, in thous. \$)

Crude oil	\$349,400
Natural gas	NA
Total	\$349,400

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$16.22
Commercial consumers	\$14.30
Industrial consumers	\$12.09
Electric utilities	\$10.46
City Gate	\$10.39

Severance taxes paid (2008, in thous. \$)

--

Top producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Indiana	15.25	.12
Westmoreland	12.24	.10
Armstrong	8.76	.07
Greene	7.19	.06
Fayette	6.19	.05
McKean	5.85	.05
Crawford	5.63	.05
Mercer	5.07	.04
Washington	4.88	.04
Jefferson	4.84	.04

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	111	1,147	1,258
Gas	653	2,276	2,929
Dry	1	2	3
Total	765	3,425	4,190

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	228.4	2,013.6	2,242.0
Gas	2,996.0	8,971.1	11,967.1
Dry	.5	1.8	2.3
Total	3,224.9	10,986.5	14,211.4

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

New-field wildcats drilled 288

Footage (thous. ft.) 1,328.7

Average rotary rigs active 23

Permits 7,187

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	8th	3rd
Production	20th	16th
Reserves (2008)	23rd	12th

Number of operators --

Number of producing wells*

(12/31/08)

Crude oil	19,093
Natural gas	55,681
Total	74,774

Average production

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

Total production

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

Natural gas marketed production

(MMcf) 198,295

Average output per producing well

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

Coalbed methane (YTD MMcf) NA

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

Heavy oil (YTD bbls, in thous.) NA

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

Source: For specific methodology and source details, please see pages 6 and 131.

* State data

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	4	NA	4
Production	2	NA	2
Net annual change	2	NA	2
Proved reserves	14	NA	14

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	8	421	427
Production	11	201	211
Net annual change	-3	220	216
Proved reserves	127	3,467	3,577

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	211	376,201	473,261
Gas	164	670,604	1,964,198
Dry	521	401,108	1,203

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 12/31/08

Producing marginal wells	0
Natural gas production (MMcf)	0

Mineral lease royalties, bonuses & rent

Oil	\$ 630
Gas	\$87,743
Total Royalties	\$90,992

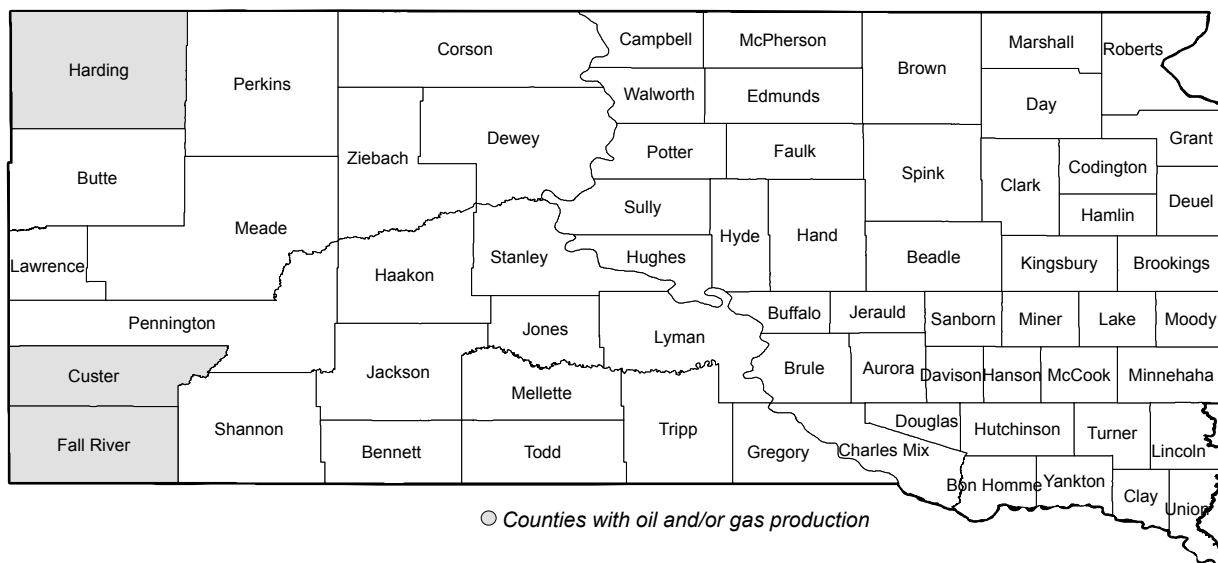
Horizontal wells drilled 53

Average number of employees

Oil and natural gas extraction	7,062
Refining	4,949
Transportation	5,757
Wholesale	10,855
Retail	35,437
Pipeline construction	2,167
Oilfield machinery	383
Total petroleum industry	66,610

According to state data (DEP), Marcellus shale activity in 2008 added to an increase in permits and wells drilled. A total of 196 Marcellus shale wells were drilled accounting for almost five percent of wells drilled. According to Baker Hughes, the rig count rose 44% from 2007.

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	15,750
Natural gas	11,000

Year and depth of deepest well drilled (ft.)

2006	17,025
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	440	25%
Gas wells	136	8%
Dry holes	1,200	67%
Total	1,776	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$1,206,301

Cumulative production & new reserves as of 12/31/08

	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 (2008)

Crude oil (\$/bbl.)	\$87.42
Natural gas (\$/Mcf)	\$ 7.94

Wellhead value of production (2008, in thous. \$)

Crude oil	\$148,352
Natural gas	\$ 13,053
Total	\$161,405

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$ 11.32
Commercial consumers	\$ 9.76
Industrial consumers	\$ 9.00
Electric utilities	\$ 7.32
City Gate	\$ 8.06

Severance taxes paid (2008, in thous. \$)

\$5,527

Top producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Harding	98.48	0.04
Fall River	1.38	<0.01
Custer	0.13	<0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	6	15	21
Gas	7	9	16
Dry	6	1	7
Total	19	25	44

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	50.3	86.7	136.9
Gas	15.7	17.6	33.3
Dry	20.2	15.7	35.9
Total	86.2	120.0	206.1

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

New-field wildcats drilled	16
Footage (thous. ft.)	78.4

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

Permits	64
---------	----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	28th	28th
Production	25th	28th
Reserves (2008)	NA	NA

Number of operators	17
---------------------	----

Number of producing wells

(12/31/08)

Crude oil	151
Natural gas	84
Total	235

Average production

Crude oil (thous. b/d)	4.5
NGL (thous. b/d)	.1
Natural gas (MMcf/day)	3.3

Total production

Crude oil (YTD bbls, in thous.)	1,642
Natural gas (YTD MMcf)	1,222

Natural gas marketed production

(MMcf)	1,644
--------	-------

Average output per producing well

Crude oil (bbls.)	10,876
Natural gas (Mcf)	14,547

Coalbed methane (YTD MMcf)	NA
----------------------------	----

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

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (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 12/31/08 (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	611	3,982,887	83,641
Gas	302	627,705	10,043
Dry	345	1,768,799	12,382

Marginal oil wells

Producing marginal wells	54
Crude oil production in bbls. (thous.)	138
Crude oil production b/d (thous.)	0

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	72
Natural gas production (MMcf)	488

Mineral lease royalties, bonuses & rent

Oil	\$2,219,575
Gas	\$ 112,035
Total Royalties	\$2,505,102

Horizontal wells drilled	19
--------------------------	----

Average number of employees

Oil and natural gas extraction	326
Refining	0
Transportation	281
Wholesale	1,203
Retail	5,847
Pipeline construction	30
Oilfield machinery	0
Total petroleum industry	7,687

Almost 100% of all oil and gas production in South Dakota is produced from the Buffalo field. This field was discovered in 1954.

TENNESSEE



○ Counties with oil and/or gas production

Background Information

Counties

Number of counties	95
With oil and/or gas production	13

First year of production

Crude oil	1860
Natural gas	1889

Year and amount of peak production

Crude oil — 1,132 thous. bbls.	1982
Natural gas — 5,022 MMcf	1984

Deepest producing well (ft.)

Crude oil	NA
Natural gas	NA

Year and depth of deepest well drilled (ft.)

1982	11,540
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	2,866	23%
Gas wells	3,652	29%
Dry holes	6,100	48%
Total	12,618	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$473,646

Cumulative production & new reserves as of 12/31/08)

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

* State Data

Value of Oil and Gas

Average wellhead price* (2008)

Crude oil (\$/bbl.)	\$92.02
Natural gas (\$/Mcf)	\$ 8.85

Wellhead value of production (2008, in thous. \$)

Crude oil	\$31,655
Natural gas	\$41,595
Total	\$73,250

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$14.20
Commercial consumers	\$13.01
Industrial consumers	\$10.81
Electric utilities	NA
City Gate	\$ 9.43

Severance taxes paid (2008, in thous. \$)

\$1,952

Top producing counties (2008 on a BOE basis)

County	% Production	
	State	US
NA	NA	NA

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	3	30	33
Gas	90	69	159
Dry	12	38	50
Total	105	137	242

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	5.8	53.1	58.9
Gas	352.2	283.7	635.9
Dry	20.5	67.1	87.6
Total	378.5	403.8	782.3

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

New-field wildcats drilled	27
Footage (thous. ft.)	98.7

Average rotary rigs active	4
----------------------------	---

Permits	259
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	25th	22nd
Production	29th	25th
Reserves (2008)	NA	NA

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

Number of producing wells*

(12/31/08)

Crude oil	250
Natural gas	220
Total	470

Average production

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

Total production

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

Natural gas marketed production

(MMcf)	4,700
--------	-------

Average output per producing well

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

Coalbed methane (YTD MMcf)	NA
Oil Wells	NA
Gas Wells	NA

Daily Average (MMcf) / Well	NA
-----------------------------	----

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

* World Oil for Number of Producing Wells

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (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 12/31/08 (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	265	472,382	15,589
Gas	157	626,165	99,560
Dry	195	340,780	17,039

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 12/31/08

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral lease royalties, bonuses & rent

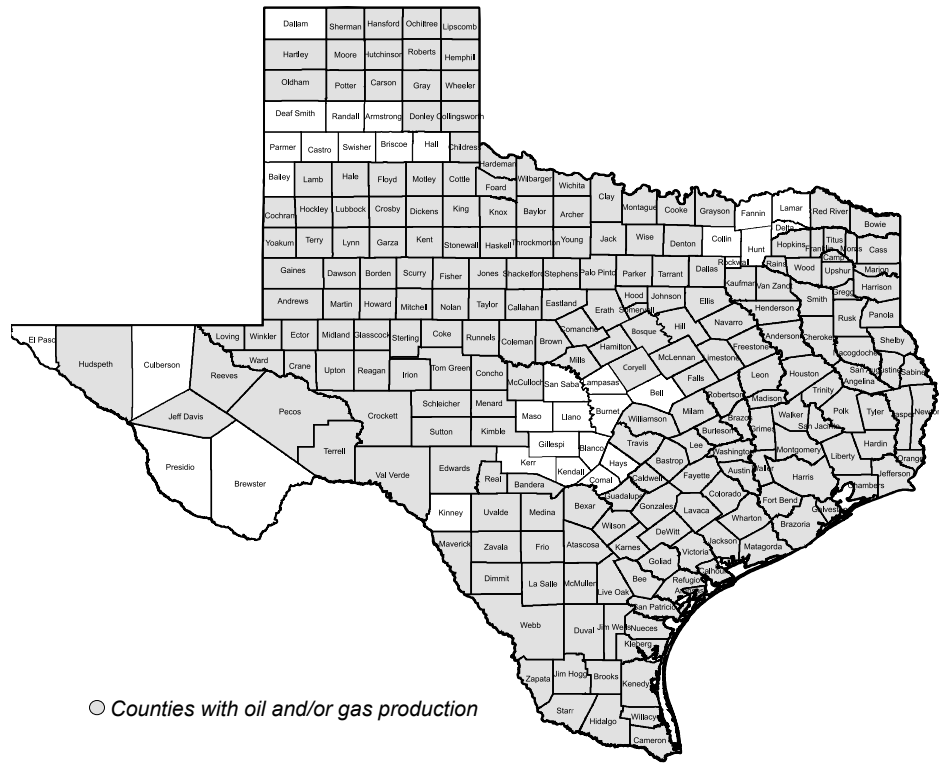
Oil	--
Gas	--
Total Royalties	--

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

Average number of employees

Oil and natural gas extraction	652
Refining	1,054
Transportation	2,204
Wholesale	3,428
Retail	23,753
Pipeline construction	579
Oilfield machinery	0
Total petroleum industry	31,670

The Chattanooga Shale field is actually an extension of the Appalachian Basin Devonian Shale, which is known to most as the Marcellus Shale. The Chattanooga Shale averages 80-200 feet in thickness.



Background Information

Counties

Number of counties	254
With oil and/or gas production	222

First year of production

Crude oil	1889
Natural gas	1889

Year and amount of peak production

Crude oil — 1,301,685 thous. bbls.	1972
Natural gas — 8,657,840 MMcf	1972

Deepest producing well (ft.)

Crude oil	27,011
Natural gas	30,712

Year and depth of deepest well drilled (ft.)

1983	29,670
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	594,265	53%
Gas wells	200,291	18%
Dry holes	325,819	29%
Total	1,120,375	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$)	\$647,532,397
----------------------------	---------------

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Natural Gas (Bcf)	Total
Reserves	73,027	21,500	460,358	94,527
Production	69,295	17,437	433,103	86,732

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$96.85
Natural gas (\$/Mcf)	\$ 8.51

Wellhead value of production (2008, in thous. \$)

Crude oil	\$38,547,656
Natural gas	\$58,897,676
Total	\$97,445,332

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$13.75
Commercial consumers	\$11.25
Industrial consumers	\$ 8.96
Electric utilities	\$ 8.91
City Gate	\$ 9.20

Severance taxes paid (2008, in thous. \$)

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Johnson	5.60	1.73
Tarrant	5.05	1.56
Zapata	3.60	1.11
Panola	3.23	1.00
Robertson	3.14	0.97
Freestone	3.13	0.97
Pecos	2.91	0.90
Hidalgo	2.70	0.83
Webb	2.34	0.72
Wise	2.34	0.72

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	50	5,723	5,781
Gas	154	9,163	9,317
Dry	490	1,147	1,637
Total	702	16,033	16,735

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	371.0	34,266.1	34,637.1
Gas	1,356.1	91,863.9	93,220.0
Dry	3,749.4	6,123.8	9,873.2
Total	5,416.5	132,253.9	137,730.3

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

New-field wildcats drilled	401
Footage (thous. ft.)	3,024.9

Average rotary rigs active	898
----------------------------	-----

Permits	24,638
---------	--------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	1st	1st
Production	2nd	1st
Reserves (2008)	1st	1st

Number of operators	4,781
---------------------	-------

Number of producing wells

(12/31/08)

Crude oil	158,433
Natural gas	100,631
Total	259,064

Average production

Crude oil (thous. b/d)	964.2
NGL (thous. b/d)	143.9
Natural gas (MMcf/day)	19,331.7

Total production

Crude oil (YTD bbls, in thous.)	352,904
Natural gas (YTD MMcf)	7,075,389

Natural gas marketed production

(MMcf)	6,920,996
--------	-----------

Average output per producing well

Crude oil (bbls.)	2,228
Natural gas (Mcf)	70,310

Coalbed methane (YTD MMcf)	108
----------------------------	-----

Oil Wells	0
Gas Wells	7
Daily Average (MMcf) / Well	0

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-219	244	970
Production	348	342	690
Net annual change	-567	-98	-665
Proved reserves	4,555	3,560	8,115

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	694	12,186	12,464
Production	665	6,729	7,009
Net annual change	29	5,457	5,455
Proved reserves	7,559	74,284	77,546

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	404	2,421,139	13,996,605
Gas	589	5,889,674	54,874,095
Dry	323	1,950,003	3,192,155

Marginal oil wells

Producing marginal wells	145,240
Crude oil production in bbls. (thous.)	151,286
Crude oil production b/d (thous.)	413

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	58,127
Natural gas production (MMcf)	664,340

Mineral lease royalties, bonuses & rent

Oil	\$ 7,111,160
Gas	\$27,226,759
Total Royalties	\$44,385,789

Horizontal wells drilled	4,214
--------------------------	-------

Average number of employees

Oil and natural gas extraction	225,096
Refining	23,146
Transportation	20,107
Wholesale	16,788
Retail	68,819
Pipeline construction	31,167
Oilfield machinery	41,416
Total petroleum industry	426,539

In 2005–2008 horizontal drilling in the Barnett Shale extended south into Johnson, Hill, Bosque counties, with a 100 percent success rate on completed wells. An estimated 70% of US gas shale production comes from the Barnett.



○ 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 — 433,566 MMcf	2008

Deepest producing well (ft.)

Crude oil	20,600
Natural gas	17,500

Year and depth of deepest well drilled (ft.)

1982	21,874
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	7,489	37%
Gas wells	7,605	38%
Dry holes	5,020	25%
Total	20,114	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$21,562,345

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,467	1,818	3,285	13,761
Production	1,228	459	1,687	7,058

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$ 86.58
Natural gas (\$/Mcf)	\$ 6.15

Wellhead value of production (2008, in thous. \$)

Crude oil	\$ 1,904,587
Natural gas	\$ 2,666,431
Total	\$ 4,571,018

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$ 9.00
Commercial consumers	\$ 7.74
Industrial consumers	\$ 7.21
Electric utilities	NA
City Gate	\$ 7.62

Severance taxes paid (2008, in thous. \$)

\$ 70,919

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Uintah	55.95	0.97
Carbon	18.30	0.32
Duchesne	10.07	0.17
San Juan	5.97	0.10
Emery	3.25	0.06
Sevier	2.48	0.04
Summit	2.14	0.04
Grand	1.43	0.02
Daggett	0.21	<0.01
Garfield	0.21	<0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	28	309	337
Gas	36	775	811
Dry	22	32	54
Total	86	1,116	1,202

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	197.4	1,962.7	2,160.1
Gas	333.6	6,786.0	7,119.6
Dry	138.5	76.0	214.5
Total	669.5	8,824.7	9,494.1

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

New-field wildcats drilled	46
Footage (thous. ft.)	360

Average rotary rigs active	42
----------------------------	----

Permits	1,486
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	21st	18th
Production	14th	9th
Reserves (2008)	11th	9th

Number of operators	115
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	3,351
Natural gas	6,040
Total	9,391

Average production

Crude oil (thous. b/d)	50.4
NGL (thous. b/d)	9.3
Natural gas (MMcf/day)	1,101.9

Total production

Crude oil (YTD bbls, in thous.)	18,438
Natural gas (YTD MMcf)	403,310

Natural gas marketed production

(MMcf) 433,566

Average output per producing well

Crude oil (bbls.)	5,502
Natural gas (Mcf)	66,773

Coalbed methane (YTD MMcf)	68,651
----------------------------	--------

Oil Wells	2
Gas Wells	878
Daily Average (MMcf) / Well	188

Heavy oil (YTD bbls, in thous.)	173
---------------------------------	-----

Wells	19
Av. bbls per day	0.5
Av. bbls per well/d	9,110

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-51	14	-37
Production	18	6	24
Net annual change	-69	8	-61
Proved reserves	286	116	402

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-18	691	669
Production	29	393	417
Net annual change	-47	298	252
Proved reserves	321	6,393	6,643

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	376	2,409,579	812,028
Gas	751	6,593,669	5,347,466
Dry	383	1,519,397	82,047

Marginal oil wells

Producing marginal wells	2,367
Crude oil production in bbls. (thous.)	5,332
Crude oil production b/d (thous.)	15

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	2,925
Natural gas production (MMcf)	41,334

Mineral lease royalties, bonuses & rent

Oil	\$198,455,820
Gas	\$217,388,293
Total Royalties	\$481,953,541

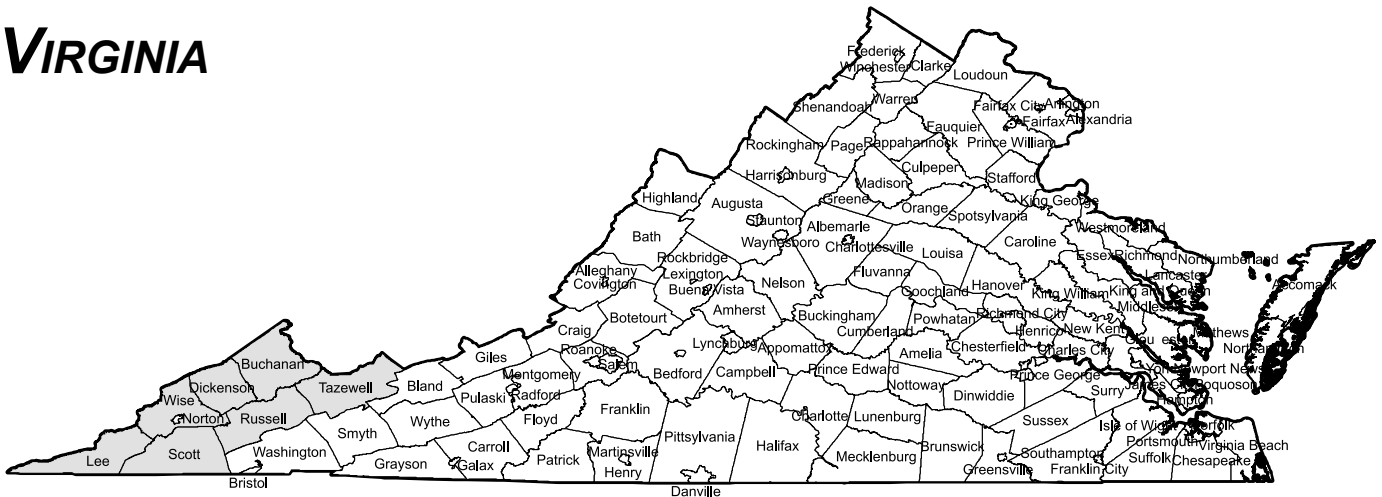
Horizontal wells drilled	20
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Average number of employees

Oil and natural gas extraction	6,735
Refining	996
Transportation	1,209
Wholesale	1,018
Retail	9,948
Pipeline construction	1,001
Oilfield machinery	357
Total petroleum industry	21,264

Over 570 wells were completed in the Natural Buttes field in 2008. This field was discovered in the late 1960s and continues to be the top producing gas field in Utah.

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 — 128,454 MMcf	2008

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 12/31/08 (excluding service wells)

Oil wells	156	2%
Gas wells	6,939	93%
Dry holes	337	5%
Total	7,432	100%

Cumulative crude oil wellhead value

as of 12/31/08 (thous. \$)	\$11,097
----------------------------	----------

Cumulative production & new reserves

as of 12/31/08	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	NA	NA	NA	3,495
Production	NA	NA	NA	1,425

Value of Oil and Gas

Average wellhead price (2008)

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

Wellhead value of production (2008, in thous. \$)

Crude oil	NA
Natural gas	NA
Total	NA

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$16.20
Commercial consumers	\$12.98
Industrial consumers	\$11.49
Electric utilities	\$10.87
City Gate	\$10.61

Severance taxes paid (2008, in thous. \$)

	--
--	----

Top producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Buchanan	54.14	0.23
Dickerson	23.21	0.10
Russell	7.84	0.03
Tazewell	7.38	0.03
Wise	7.06	0.03
Lee	0.20	<0.01
Scott	0.16	<0.01

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	14	621	635
Dry	NA	NA	NA
Total	14	621	635

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	75.0	1,565.1	1,640.1
Dry	NA	NA	NA
Total	75.0	1,565.1	1,640.1

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

New-field wildcats drilled	8
Footage (thous. ft.)	45.1

Average rotary rigs active	5
----------------------------	---

Permits	803
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	30th	19th
Production	32nd	17th
Reserves (2008)	NA	18th

Number of operators*	19
----------------------	----

Number of producing wells

(12/31/08)

Crude oil	NA
Natural gas	6,322
Total	6,322

Average production

Crude oil (thous. b/d)	NA
NGL (thous. b/d)	NA
Natural gas (MMcf/day)	348

Total production

Crude oil (YTD bbls, in thous.)	NA
Natural gas (YTD MMcf)	127,373

Natural gas marketed production

(MMcf)	128,454
--------	---------

Average output per producing well

Crude oil (bbls.)	NA
Natural gas (Mcf)	20,148

Coalbed methane (YTD MMcf)	NA
----------------------------	----

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

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

* State Data

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (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 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	0	-25	-25
Production	0	126	126
Net annual change	0	-151	-151
Proved reserves	0	2,378	2,378

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	NA	NA	NA
Gas	182	471,251	299,244
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 12/31/08

Producing marginal wells	5,251
Natural gas production (MMcf)	70,117

Mineral lease royalties, bonuses & rent

Oil	--
Gas	\$336,210
Total Royalties	\$596,268

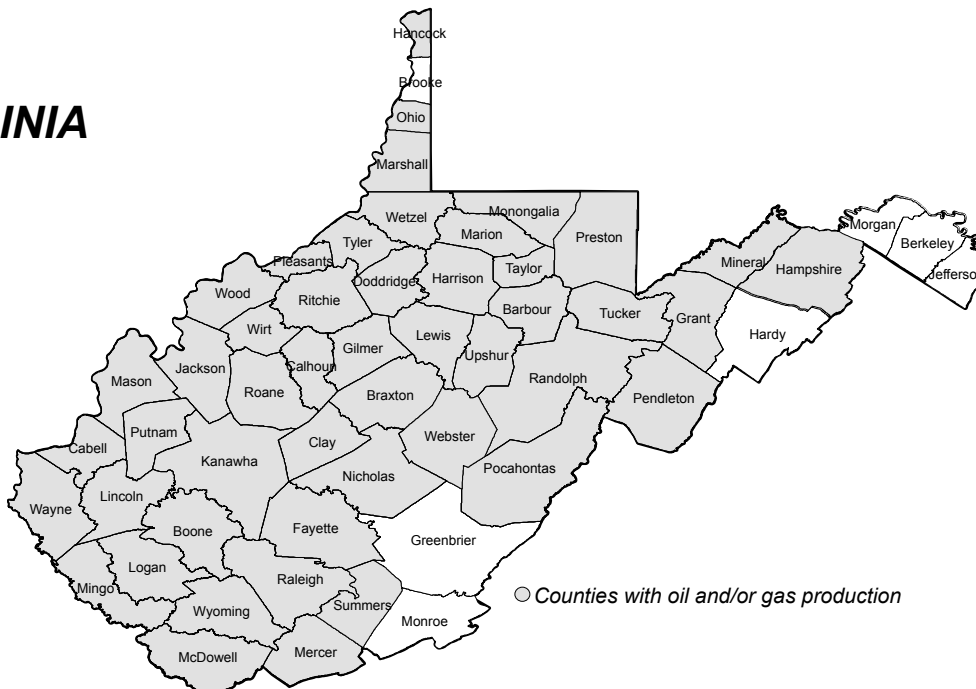
Horizontal wells drilled	7
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Average number of employees

Oil and natural gas extraction	1,931
Refining	0
Transportation	1,791
Wholesale	4,659
Retail	32,952
Pipeline construction	1,670
Oilfield machinery	0
Total petroleum industry	43,003

Discovered in the late 1970s, Keen Mountain field is the top producing gas field in Virginia. Almost 50% of the gas produced in the state comes from this field, with an additional 266 wells completed in 2008.

WEST VIRGINIA



Background Information

Counties

Number of counties	55
With oil and/or gas production	48

First year of production

Crude oil	1860
Natural gas	1885

Year and amount of peak production

Crude oil — 16,196 thous. bbls.	1900
Natural gas — 264,139 MMcf	2000

Deepest producing well (ft.)

Crude oil	8,381
Natural gas	12,263

Year and depth of deepest well drilled (ft.)

1974	20,222
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	17,096	19%
Gas wells	65,628	72%
Dry holes	8,141	9%
Total	90,866	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$3,061,386

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	611	492	1,103	25,515
Production	618	422	1,040	20,533

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$ 95.07
Natural gas* (\$/Mcf)	\$ 7.42

Wellhead value of production (2008, in thous. \$)

Crude oil	\$ 151,477
Natural gas	\$1,822,189
Total	\$1,973,666

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$14.51
Commercial consumers	\$13.54
Industrial consumers	\$10.94
Electric utilities	\$10.08
City Gate	\$10.32

Severance taxes paid (2008, in thous. \$)

\$87,606

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Wyoming	10.25	0.08
McDowell	8.62	0.07
Kanawha	6.51	0.05
Logan	6.46	0.05
Harrison	5.64	0.05
Lewis	5.40	0.04
Mingo	5.18	0.04
Lincoln	4.57	0.04
Barbour	4.26	0.03
Doddridge	3.84	0.03

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	1	41	42
Gas	245	1,521	1,766
Dry	4	14	18
Total	250	1,576	1,826

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	3.6	112.0	115.6
Gas	1,282.7	7,149.4	8,432.1
Dry	10.1	31.3	41.4
Total	1,296.5	7,292.6	8,589.1

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

New-field wildcats drilled	48
Footage (thous. ft.)	251.8

Average rotary rigs active	27
----------------------------	----

Permits	2,759
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	13th	4th
Production	26th	15th
Reserves (2008)	20th	11th

Number of operators	312
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	2,485
Natural gas	44,974
Total	47,459

Average production

Crude oil (thous. b/d)	2.7
NGL (thous. b/d)	2.5
Natural gas (MMcf/day)	650.2

Total production

Crude oil (YTD bbls, in thous.)	987
Natural gas (YTD MMcf)	237,956

Natural gas marketed production

(MMcf)	245,578
--------	---------

Average output per producing well

Crude oil (bbls.)	397
Natural gas (Mcf)	5,291

Coalbed methane (YTD MMcf)	1,247
----------------------------	-------

Oil Wells	0
Gas Wells	96
Daily Average (MMcf) / Well	3

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

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

Source: For specific methodology and source details, please see pages 6 and 131.

* State data

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-3	-10	-13
Production	2	5	7
Net annual change	-5	-15	-20
Proved reserves	23	100	123

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	9	632	657
Production	2	254	250
Net annual change	7	378	407
Proved reserves	23	5,243	5,136

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	160	441,591	18,547
Gas	157	749,606	1,323,804
Dry	163	376,104	6,770

Marginal oil wells

Producing marginal wells	2,124
Crude oil production in bbls. (thous.)	582
Crude oil production b/d (thous.)	2

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	43,844
Natural gas production (MMcf)	185,857

Mineral lease royalties, bonuses & rent

Oil	--
Gas	\$1,008,267
Total Royalties	\$2,050,217

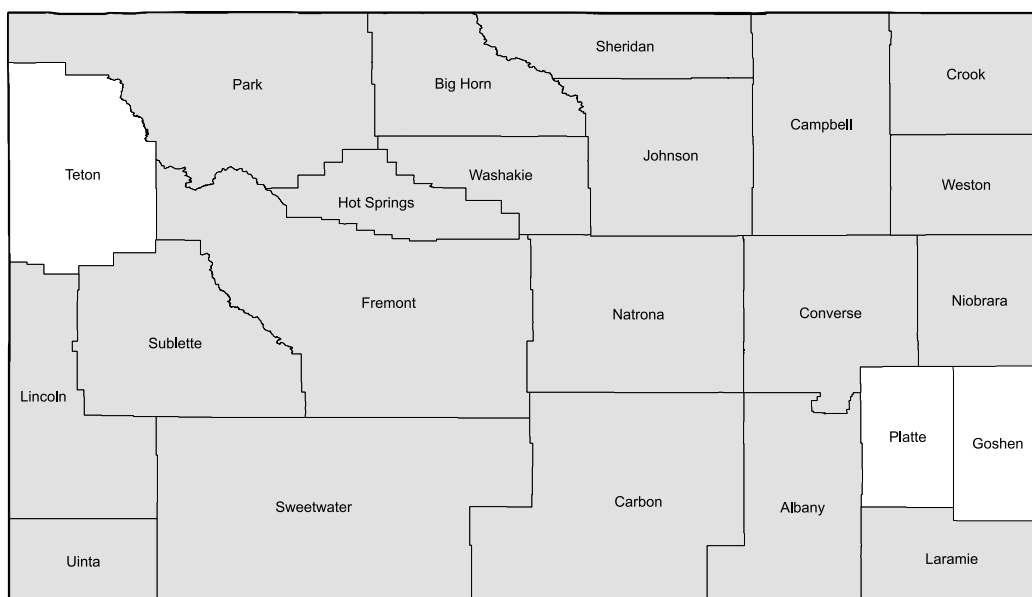
Horizontal wells drilled	163
--------------------------	-----

Average number of employees

Oil and natural gas extraction	5,713
Refining	917
Transportation	2,525
Wholesale	993
Retail	8,900
Pipeline construction	1,315
Oilfield machinery	0
Total petroleum industry	20,363

Operators started producing the McGraw field in West Virginia in the mid-1980s. An additional 16 wells were completed in 2008 to bring the production over 8.8 million Mcfs for 2008.

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 — 2,274,850 MMcf	2008

Deepest producing well (ft.)

Crude oil	17,750
Natural gas	25,175

Year and depth of deepest well drilled (ft.)

2001	25,830
------	--------

Cumulative number of total wells drilled as of 12/31/08 (excluding service wells)

Oil wells	33,889	31%
Gas wells	44,710	41%
Dry holes	30,244	28%
Total	108,843	100%

Cumulative crude oil wellhead value as of 12/31/08 (thous. \$)

\$77,799,755

Cumulative production & new reserves as of 12/31/08

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	7,231	2,436	9,667	64,491
Production	6,816	1,401	8,217	35,484

Value of Oil and Gas

Average wellhead price (2008)

Crude oil (\$/bbl.)	\$86.07
Natural gas (\$/Mcf)	\$ 6.86

Wellhead value of production (2008, in thous. \$)

Crude oil	\$ 4,556,804
Natural gas	\$15,605,471
Total	\$20,162,275

Average natural gas price (2008, \$/Mcf)

Residential consumers	\$10.16
Commercial consumers	\$ 8.87
Industrial consumers	\$ 7.55
Electric utilities	NA
City Gate	\$ 7.02

Severance taxes paid (2008, in thous. \$)

\$947,880

Top 10 producing counties (2008 on a BOE basis)

County	% Production	
	State	US
Sublette	44.59	3.84
Johnson	12.61	1.09
Sweetwater	8.37	0.72
Campbell	8.02	0.69
Fremont	6.13	0.53
Carbon	4.45	0.38
Lincoln	3.49	0.30
Uinta	2.69	0.23
Sheridan	2.68	0.23
Park	2.10	0.18

2008 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	15	154	169
Gas	38	2,740	2,778
Dry	26	47	73
Total	79	2,941	3,020

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	131.8	810.1	941.9
Gas	362.7	14,813.8	15,176.5
Dry	194.0	195.2	389.3
Total	688.6	15,819.2	16,507.7

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

New-field wildcats drilled	50
Footage (thous. ft.)	408.2

Average rotary rigs active	74
----------------------------	----

Permits	4,466
---------	-------

Statewide rank

	Crude Oil	Natural gas
Wells drilled	11th	6th
Production	9th	3rd
Reserves (2008)	8th	2nd

Number of operators	452
---------------------	-----

Number of producing wells

(12/31/08)

Crude oil	12,011
Natural gas	33,628
Total	45,639

Average production

Crude oil (thous. b/d)	109.4
NGL (thous. b/d)	35.3
Natural gas (MMcf/day)	6,353

Total production

Crude oil (YTD bbls, in thous.)	40,054
Natural gas (YTD MMcf)	2,325,182

Natural gas marketed production

(MMcf) 2,274,850

Average output per producing well

Crude oil (bbls.)	3,335
Natural gas (Mcf)	69,144

Coalbed methane (YTD MMcf)	563,151
----------------------------	---------

Oil Wells	5
Gas Wells	21,567
Daily Average (MMcf) / Well	1,539

Heavy oil (YTD bbls, in thous.)	9,754
---------------------------------	-------

Wells	2,089
Av. bbls per day	26.7
Av. bbls per well/d	4,669

Source: For specific methodology and source details, please see pages 6 and 131.

2008 Latest Available Data

Petroleum reserves

as of 12/31/08 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-93	159	66
Production	41	70	111
Net annual change	-234	89	-145
Proved reserves	556	1,121	1,677

Natural gas reserves

as of 12/31/08 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-99	3,711	3,459
Production	43	2,066	2,026
Net annual change	-142	1,645	1,433
Proved reserves	223	32,176	31,143

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	691	3,853,316	651,210
Gas	911	4,977,894	13,828,590
Dry	571	3,046,626	222,404

Marginal oil wells

Producing marginal wells	9,688
Crude oil production in bbls. (thous.)	13,375
Crude oil production b/d (thous.)	37

Marginal natural gas wells

as of 12/31/08

Producing marginal wells	20,554
Natural gas production (MMcf)	191,676

Mineral lease royalties, bonuses & rent

Oil	\$ 473,210,036
Gas	\$1,181,130,181
Total Royalties	\$2,732,925,438

Horizontal wells drilled	42
--------------------------	----

Average number of employees

Oil and natural gas extraction	19,103
Refining	1,107
Transportation	1,016
Wholesale	770
Retail	4,163
Pipeline construction	5,527
Oilfield machinery	226
Total petroleum industry	31,912

20% of the gas production in Wyoming is produced in the Power River Basin Coal Bed field. Over 1,500 wells were completed in this field in 2008.

ROTARY RIGS OPERATING

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	6	4	5	3	3	3	4	5	5	5
Alaska	5	8	13	11	10	10	9	8	8	8
Arizona	0	0	0	0	0	0	0	0	0	0
Arkansas	3	4	2	1	2	6	9	24	45	51
California	19	24	36	23	22	24	27	33	35	42
Colorado	13	18	32	28	39	54	74	89	107	114
Florida	0	0	0	0	1	1	2	0	0	1
Illinois	0	0	0	0	0	0	0	0	0	0
Indiana	0	0	0	0	0	0	0	0	0	2
Iowa	0	0	0	0	0	0	0	0	2	0
Kansas	7	22	23	8	9	7	7	10	14	11
Kentucky	6	5	6	5	4	5	5	7	9	10
Louisiana	141	194	214	163	157	167	182	188	177	167
Maryland	0	0	0	0	0	0	0	0	1	0
Michigan	2	3	1	1	3	3	3	2	2	1
Mississippi	7	11	14	8	8	10	10	10	14	13
Montana	4	7	10	8	14	20	24	22	17	11
Nebraska	0	1	0	0	0	1	0	0	0	0
Nevada	0	0	0	0	1	2	2	1	2	3
New Mexico	36	68	68	42	65	67	83	94	78	78
New York	3	3	5	4	3	5	4	6	6	6
North Dakota	6	13	14	10	14	15	21	32	39	68
Ohio	11	9	10	9	8	7	9	8	13	12
Oklahoma	62	99	130	91	129	159	152	179	188	200
Oregon	0	0	0	0	0	0	0	0	0	1
Pennsylvania	8	9	11	11	10	9	13	16	16	23
South Dakota	1	0	1	0	0	1	2	1	2	2
Tennessee	0	0	1	0	0	0	0	1	5	4
Texas	227	343	462	338	449	506	614	746	834	898
Utah	9	16	21	13	14	22	28	40	42	42
Virginia	5	2	2	2	1	1	2	1	3	5
Washington	0	0	1	0	0	0	0	1	0	1
West Virginia	14	14	18	13	16	15	17	27	32	27
Wyoming	32	41	55	40	54	74	78	99	74	74
TOTAL U.S.	625	918	1,156	830	1,032	1,192	1,381	1,649	1,769	1,880
ONSHORE	517	779	1,002	716	923	1,095	1,287	1,561	1,696	1,814
OFFSHORE	107	139	154	114	109	97	94	88	73	66

Source: Baker Hughes.

Note: Averages may not add up to total due to rounding.

NEW-FIELD WILDCAT WELLS DRILLED

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	19	17	19	16	17	22	17	26	35	24
Alaska	5	8	10	10	10	8	15	8	11	13
Arizona	0	1	1	1	0	1	4	1	1	0
Arkansas	13	13	18	10	10	16	10	32	40	27
California	32	41	39	27	27	30	30	20	14	12
Colorado	49	42	71	40	48	68	136	103	128	84
Florida	0	0	0	0	1	0	2	0	0	0
Georgia	0	0	1	0	0	0	0	0	0	0
Illinois	13	20	36	17	32	31	34	31	22	20
Indiana	7	5	19	10	17	19	19	39	34	23
Iowa	0	0	1	0	0	0	0	0	0	0
Kansas	82	147	212	153	160	176	228	277	257	313
Kentucky	16	27	97	87	131	176	238	303	205	138
Louisiana	77	83	63	74	61	59	58	52	52	30
Maryland	0	0	0	0	0	0	0	0	0	0
Michigan	22	20	19	24	19	23	17	28	21	34
Mississippi	29	25	28	38	33	30	33	30	42	25
Missouri	3	1	3	2	0	0	0	0	0	0
Montana	45	56	90	95	120	151	160	139	105	81
Nebraska	9	15	12	14	15	16	19	21	22	54
Nevada	1	3	3	2	3	6	6	1	4	4
New Mexico	38	44	58	32	61	76	46	67	44	44
New York	16	24	38	36	26	54	29	26	41	35
North Carolina	0	0	0	0	0	0	0	0	0	0
North Dakota	16	19	19	9	4	26	44	103	98	87
Ohio	1	0	6	6	5	2	16	21	41	34
Oklahoma	58	66	102	69	97	104	109	181	260	273
Oregon	0	0	0	0	0	0	0	0	0	0
Pennsylvania	5	4	25	15	43	126	189	224	351	288
South Dakota	1	1	1	6	5	1	7	4	13	16
Tennessee	8	9	11	26	42	26	37	82	57	27
Texas	454	513	431	346	436	473	470	389	312	401
Utah	15	6	20	30	11	22	32	50	50	46
Virginia	1	7	4	8	8	3	2	10	28	8
Washington	1	1	3	0	0	0	0	0	2	0
West Virginia	5	10	32	30	18	28	23	37	52	48
Wyoming	90	77	80	74	82	90	81	76	61	50
Federal Offshore	67	106	105	69	83	83	74	58	61	52
TOTAL U.S.	1,198	1,411	1,676	1,376	1,625	1,946	2,085	2,439	2,464	2,291

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

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	20	17	22	17	23	36	27	35	49	36
Alaska	5	8	14	17	12	13	19	14	18	14
Arizona	0	1	0	1	0	1	4	1	1	0
Arkansas	13	14	23	10	12	19	18	45	47	45
California	67	79	89	62	52	69	74	44	36	26
Colorado	104	88	137	57	81	104	206	159	177	124
Florida	0	0	0	0	1	0	2	0	0	0
Georgia	0	0	1	0	0	0	0	0	0	0
Illinois	37	50	48	33	44	47	50	72	84	61
Indiana	20	10	19	12	37	24	40	58	69	79
Iowa	0	0	1	0	0	0	0	0	0	0
Kansas	148	248	398	279	289	341	418	457	479	608
Kentucky	47	59	136	132	188	302	448	598	464	353
Louisiana	87	87	64	83	72	73	70	65	67	56
Maryland	0	0	0	0	0	0	0	0	0	0
Michigan	30	23	25	30	23	27	24	34	31	52
Mississippi	31	33	33	43	41	34	44	40	53	32
Missouri	3	1	3	2	0	0	0	0	0	0
Montana	65	100	177	156	186	237	278	254	188	145
Nebraska	17	30	19	17	22	18	30	32	34	71
Nevada	1	3	4	2	3	6	6	1	4	4
New Mexico	100	94	115	75	100	103	98	118	75	69
New York	18	28	45	39	33	57	41	30	78	49
North Carolina	0	0	0	0	0	0	0	0	0	0
North Dakota	41	51	52	22	23	54	72	165	236	217
Ohio	25	27	36	31	27	28	56	66	147	116
Oklahoma	68	104	187	109	209	253	278	334	601	672
Oregon	5	0	0	0	0	0	0	0	0	0
Pennsylvania	13	11	33	30	81	307	513	657	993	765
South Dakota	2	1	2	6	5	4	9	4	13	19
Tennessee	12	21	18	29	57	58	75	120	143	105
Texas	790	841	999	714	795	774	743	696	618	702
Utah	23	18	72	41	34	47	68	123	83	86
Virginia	1	9	5	14	10	2	7	20	53	14
Washington	1	0	3	0	0	0	0	0	2	0
West Virginia	19	28	76	89	41	146	200	215	285	250
Wyoming	144	143	179	151	141	130	132	119	86	79
Federal Offshore	79	107	105	69	83	84	77	59	67	118
TOTAL U.S.	2,036	2,345	3,140	2,372	2,726	3,410	4,127	4,645	5,281	4,967

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

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	205	152	346	246	371	405	416	407	505	131
Alaska	94	128	164	179	165	193	155	121	133	25
Arizona	1	0	0	0	0	0	0	0	1	0
Arkansas	136	155	227	144	216	278	299	417	470	1,048
California	1,478	2,113	2,181	1,925	1,928	2,161	2,234	2,464	2,343	2,640
Colorado	636	955	1,392	1,332	1,511	1,892	2,506	2,845	3,269	3,790
Florida	0	4	0	1	0	0	1	0	0	1
Illinois	213	328	367	289	308	277	379	411	353	434
Indiana	34	53	117	81	145	125	128	72	80	134
Kansas	497	911	1,099	902	1,339	1,542	1,867	2,709	2,770	3,634
Kentucky	601	729	865	891	752	573	680	805	850	885
Louisiana	757	1,031	1,217	790	1,003	1,188	1,381	1,569	1,565	1,714
Maryland	1	0	0	0	0	0	0	0	0	0
Michigan	298	374	414	337	353	403	505	524	450	450
Mississippi	86	192	242	168	240	237	255	253	280	241
Missouri	5	14	6	0	1	0	0	0	0	0
Montana	383	418	406	388	644	504	682	863	672	427
Nebraska	3	11	13	14	16	32	46	34	132	163
Nevada	1	1	3	2	0	0	0	0	0	1
New Mexico	935	1,461	1,574	1,200	1,526	1,686	1,812	1,914	1,763	1,619
New York	69	70	77	54	46	77	133	227	288	339
North Dakota	42	121	158	154	199	168	227	322	278	500
Ohio	495	547	690	493	493	525	539	637	684	890
Oklahoma	1,582	2,176	2,982	2,351	2,783	2,884	3,248	3,671	2,992	3,507
Oregon	5	0	0	0	0	0	0	0	0	1
Pennsylvania	1,362	1,591	2,232	2,183	2,505	2,290	2,908	3,611	3,210	3,425
South Dakota	4	10	9	6	3	8	34	21	36	25
Tennessee	109	165	103	81	198	146	163	168	32	137
Texas	4,697	6,931	8,052	6,534	8,592	9,522	10,800	12,272	13,784	16,033
Utah	237	414	549	383	381	554	709	880	877	1,116
Virginia	278	245	304	291	358	361	318	531	654	621
Washington	0	0	0	0	0	2	0	0	0	0
West Virginia	670	653	887	870	974	1,081	1,212	1,584	1,562	1,576
Wyoming	2,438	4,744	5,331	3,045	2,768	3,717	4,330	4,024	2,977	2,941
Federal Offshore	794	939	952	612	630	615	551	483	415	370
TOTAL U.S.	18,506	26,843	32,184	25,454	29,923	32,945	37,967	43,805	43,010	49,105

Source: IHS.

Note: Data include oil wells, gas wells, and dry holes and may not total due to Federal Offshore data duplication.

TOTAL WELLS DRILLED

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	225	169	368	263	394	441	443	440	554	348
Alaska	99	136	178	196	176	206	173	132	148	145
Arizona	1	1	0	1	0	1	4	1	2	0
Arkansas	149	169	250	154	228	304	334	495	830	1,093
California	1,545	2,193	2,271	1,989	1,978	2,221	2,296	2,494	2,367	2,666
Colorado	740	1,043	1,529	1,389	1,593	1,992	2,710	3,003	3,440	3,914
Florida	0	4	0	1	0	0	3	0	0	1
Georgia	0	0	1	0	0	0	0	0	0	0
Illinois	250	379	414	322	354	324	424	478	437	495
Indiana	54	63	136	93	182	149	163	117	113	213
Iowa	0	0	1	0	0	0	0	0	0	0
Kansas	645	1,162	1,499	1,183	1,631	1,887	2,283	3,161	3,249	4,242
Kentucky	647	787	986	1,016	925	842	949	1,294	1,269	1,238
Louisiana	842	1,118	1,281	873	1,075	1,261	1,451	1,633	1,630	1,770
Maryland	1	0	0	0	0	0	0	0	0	0
Michigan	328	397	439	367	376	430	528	558	482	502
Mississippi	117	225	275	211	281	270	299	293	332	273
Missouri	8	15	9	2	1	0	0	0	0	0
Montana	448	518	583	544	831	752	969	1,118	862	572
Nebraska	20	41	32	31	38	50	75	65	165	234
Nevada	2	4	7	4	3	3	5	1	2	5
New Mexico	1,039	1,556	1,689	1,275	1,624	1,789	1,906	2,028	1,838	1,688
New York	87	96	123	92	78	136	160	242	350	388
North Carolina	0	0	0	0	0	0	0	0	0	0
North Dakota	83	172	210	176	222	221	300	487	519	717
Ohio	520	573	725	520	515	549	577	684	806	1,006
Oklahoma	1,649	2,279	3,170	2,460	2,992	3,135	3,524	3,995	3,588	4,179
Oregon	10	0	0	0	0	0	0	0	0	1
Pennsylvania	1,375	1,601	2,263	2,212	2,575	2,496	3,344	4,260	4,169	4,190
South Dakota	6	11	11	12	8	12	41	25	48	44
Tennessee	121	186	119	107	252	202	234	285	71	242
Texas	5,486	7,779	9,052	7,240	9,378	10,284	11,532	13,409	14,392	16,735
Utah	260	433	621	424	416	601	777	1,005	961	1,202
Virginia	279	254	309	305	368	363	324	545	705	635
Washington	1	0	1	0	0	2	0	0	2	0
West Virginia	688	681	963	958	1,015	1,225	1,408	1,791	1,824	1,826
Wyoming	2,581	4,886	5,509	3,196	2,911	3,843	4,460	4,134	3,061	3,020
Federal Offshore	971	1,135	1,158	758	807	786	716	638	555	488
TOTAL U.S.	21,277	30,066	36,182	28,374	33,227	36,777	41,696	48,173	48,216	54,072

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

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	521	502	494	481	485	502	557	493	488	506
Alaska	2,256	2,243	2,304	2,310	2,283	2,384	2,505	2,465	2,402	2,479
Arizona	30	28	27	24	24	21	23	25	22	24
Arkansas	2,167	2,244	5,498	4,385	2,718	2,143	2,138	2,505	2,487	1,494
California	45,293	46,654	47,148	46,811	47,060	47,666	48,239	49,705	50,591	52,268
Colorado	5,305	5,400	5,322	5,272	5,133	5,140	5,088	5,049	4,999	5,038
Florida	88	79	73	72	96	67	76	65	64	66
Kansas	42,539	42,358	41,774	41,629	41,261	40,167	40,024	40,349	40,782	41,661
Louisiana	18,300	19,604	18,530	17,996	17,991	17,569	17,463	17,999	17,751	18,156
Michigan	2,631	3,688	3,845	3,672	3,790	3,761	3,887	3,847	3,875	3,755
Mississippi	1,715	1,742	1,768	1,616	1,664	1,685	1,647	1,788	1,937	2,082
Montana	3,617	3,741	4,409	3,662	3,713	3,918	4,052	4,272	4,873	5,033
Nebraska	1,269	1,270	1,250	1,224	1,222	1,224	1,211	1,229	1,211	1,234
Nevada	70	69	69	71	71	68	71	68	74	75
New Mexico	18,189	18,809	19,512	19,420	19,652	20,034	20,553	21,219	21,644	22,134
New York	3,739	3,627	2,876	3,213	3,117	3,095	3,270	2,767	3,190	2,816
North Dakota	3,391	3,418	3,481	4,224	3,519	3,779	3,506	3,512	4,841	4,198
Ohio	15,443	16,760	17,277	17,529	17,165	17,147	17,436	17,867	16,192	17,742
Oklahoma	64,254	61,074	60,923	58,088	53,530	52,326	51,869	54,408	51,160	41,382
South Dakota	143	144	144	143	143	145	162	153	163	151
Texas	166,711	163,487	161,943	158,410	154,932	152,693	152,045	153,455	154,569	158,433
Utah	2,112	2,142	2,201	2,163	2,217	2,433	2,685	2,953	3,107	3,351
West Virginia	1,558	1,263	1,708	2,188	1,469	2,099	2,115	2,107	2,613	2,485
Wyoming	11,599	11,910	11,921	11,716	11,688	11,743	12,147	12,813	12,094	12,011
Federal Offshore	4,256	4,240	4,235	4,127	3,957	3,840	3,631	3,146	3,554	3,574
TOTAL U.S.	417,196	416,496	418,732	410,446	398,900	395,649	396,400	404,259	404,683	402,148

Source: IHS. Total includes onshore and offshore counts.

* State Data

PRODUCING NATURAL GAS WELLS

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	3,497	3,698	3,891	4,130	4,460	4,784	5,122	5,523	5,728	6,070
Alaska	NA	NA	NA	NA	NA	NA	NA	NA	NA	190
Arizona	7	7	7	8	6	7	4	5	5	5
Arkansas	3,073	3,336	3,454	3,510	3,704	3,959	4,298	4,481	4,955	5,913
California	1,309	1,359	1,484	1,416	1,467	1,497	1,579	1,715	1,806	1,840
Colorado	16,040	16,824	18,137	19,280	20,821	22,693	25,570	28,407	31,920	36,805
Kansas	15,781	18,069	16,684	17,827	16,998	17,740	18,417	19,891	20,978	21,908
Kentucky	9,859	10,225	10,541	11,038	11,510	12,298	11,754	12,771	16,140	13,727
Louisiana	13,889	13,907	8,405	8,250	8,367	8,734	9,385	10,679	11,245	11,879
Michigan	7,152	7,234	7,642	7,957	8,282	8,524	9,009	9,444	9,792	10,050
Mississippi	665	765	913	992	1,151	1,284	1,469	1,574	1,714	1,786
Montana	3,862	4,115	4,419	4,603	4,864	5,299	5,716	6,200	6,206	6,277
Nebraska	108	99	102	104	108	112	115	117	195	328
New Mexico	22,225	23,213	24,506	25,454	26,687	28,160	29,723	31,246	32,535	33,625
New York	5,722	5,713	6,120	5,544	6,517	6,707	6,661	6,764	7,138	7,391
North Dakota	82	92	100	97	111	133	208	371	303	347
Ohio	20,661	22,011	22,585	22,426	22,613	22,212	22,151	23,123	20,507	23,384
Oklahoma	25,200	26,297	27,829	29,077	30,551	32,214	34,081	36,358	38,164	39,800
Oregon	21	18	18	16	16	16	14	13	12	21
South Dakota	56	58	58	58	58	60	60	62	64	84
Texas	59,760	61,388	64,760	66,747	70,056	74,550	79,879	86,272	93,126	100,631
Utah	2,060	2,353	2,792	3,118	3,392	3,715	4,171	4,781	5,257	6,040
Virginia	2,367	2,682	2,891	3,142	3,421	3,856	4,238	5,007	5,748	6,322
West Virginia	39,429	29,977	39,465	40,846	39,763	41,309	44,172	41,364	47,476	44,974
Wyoming	7,470	11,115	15,705	19,269	21,099	23,749	26,475	29,875	31,747	33,628
Federal Offshore	4,606	4,628	4,672	4,374	4,277	4,137	3,878	3,367	3,487	3,255
TOTAL U.S.	264,901	269,183	287,180	299,283	310,299	327,749	348,333	369,410	396,248	402,553

Source: IHS. Data not available for certain states.
 * Previous year data may be revised.

CRUDE OIL PRODUCTION

<i>(thous. bbls.)</i>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	6,406	5,983	5,415	5,163	4,970	4,662	5,197	5,276	4,951	5,560
Alaska	383,199	355,149	351,466	359,496	362,371	335,740	335,740	269,150	262,427	248,800
Arizona	62	55	58	61	45	50	48	53	41	50
Arkansas	6,187	6,454	6,873	6,470	6,586	5,845	5,388	5,292	5,249	5,791
California	273,222	271,027	260,545	255,195	247,393	239,485	228,811	222,874	217,986	214,120
Colorado	13,971	13,884	13,209	12,771	12,682	12,014	11,764	11,357	10,756	10,875
Florida	4,888	4,624	4,406	3,644	3,263	2,875	2,585	2,349	2,080	1,985
Illinois	11,274	10,906	10,198	11,127	11,707	10,699	8,899	10,324	9,609	9,430
Indiana	1,962	2,035	2,073	1,969	1,870	1,729	1,595	1,714	1,723	1,855
Kansas	34,084	34,238	33,957	33,056	33,711	33,802	33,897	35,621	36,434	39,575
Kentucky	1,459	1,545	1,490	1,381	1,347	1,210	1,215	1,181	2,618	1,034
Louisiana	80,263	75,860	71,204	60,626	58,658	56,983	50,835	49,443	52,528	48,626
Michigan	6,846	7,502	7,070	6,583	6,230	5,763	5,744	5,686	5,394	6,023
Mississippi	16,389	18,564	18,040	16,781	15,678	15,635	16,402	16,103	19,034	20,859
Montana	15,346	15,719	16,172	16,940	19,309	24,674	32,655	36,027	34,815	31,480
Nebraska	2,666	2,953	2,911	2,746	2,810	2,520	2,405	2,297	2,333	2,389
Nevada	706	621	571	553	492	463	446	426	410	436
New Mexico	59,667	61,659	60,957	58,293	57,004	56,723	54,530	53,661	53,300	54,648
New York	0	0	0	0	94	110	92	188	267	294
North Dakota	32,360	32,042	30,653	29,876	28,413	30,142	34,092	36,763	42,249	58,384
Ohio	4,563	4,935	5,532	4,917	4,521	4,264	4,250	4,372	3,958	4,175
Oklahoma	65,297	62,930	61,248	58,543	56,770	54,899	52,288	53,947	51,093	53,234
Oregon	0	0	0	0	0	0	0	0	0	0
South Dakota	1,100	1,162	1,246	1,209	1,239	1,356	1,415	1,394	1,653	1,642
Texas	408,993	400,930	380,943	365,891	359,907	351,459	347,614	346,079	341,763	352,904
Utah	14,560	14,156	13,913	12,610	12,089	13,718	15,298	15,965	16,957	18,438
West Virginia	533	538	706	571	768	586	676	788	1,030	987
Wyoming	52,901	52,987	48,963	46,020	43,174	41,689	41,452	42,287	41,992	40,054
Federal Offshore	454,621	470,192	473,252	496,663	505,364	476,795	427,167	431,321	427,571	395,233
TOTAL U.S.	1,953,524	1,928,649	1,883,071	1,869,155	1,858,465	1,785,890	1,700,805	1,661,939	1,650,220	1,628,855
DAILY AVG.	5,881	5,822	5,801	5,746	5,681	5,419	5,178	4,553	4,521	4,463

Source: IHS.

Notes: Daily Average derived from IHS data.

NATURAL GAS PRODUCTION

	(MMcf)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama		415,442	396,775	381,831	370,977	355,701	324,437	301,634	290,530	264,468	252,449
Arizona		333	281	239	236	183	218	154	522	590	457
Arkansas		146,407	149,085	149,662	147,897	153,236	170,222	182,452	192,991	262,629	442,536
California		90,546	86,347	89,748	78,277	83,695	75,362	81,952	90,504	89,845	84,317
Colorado		706,407	758,839	803,229	912,289	997,085	1,062,396	1,120,614	1,217,865	1,273,254	1,476,152
Kansas		574,048	528,307	490,685	464,540	431,149	405,594	386,067	378,032	371,782	379,647
Kentucky		75,096	76,073	77,031	81,344	83,452	85,668	79,419	85,840	95,247	95,013
Louisiana		1,310,820	1,322,815	1,371,071	1,261,846	1,252,126	1,266,290	1,219,382	1,290,156	1,279,855	1,302,007
Michigan		227,506	215,038	203,038	192,482	178,082	170,023	161,614	159,295	151,701	145,875
Mississippi		120,227	110,869	132,500	142,950	157,847	170,157	183,103	206,269	268,328	331,699
Montana		55,197	64,740	74,416	79,235	78,092	87,046	91,456	93,199	88,833	78,197
Nebraska		1,021	861	871	894	1,183	1,217	939	898	1,282	2,814
New Mexico		1,454,198	1,461,998	1,466,020	1,412,648	1,375,603	1,372,580	1,358,029	1,352,226	1,294,420	1,243,420
New York		17,148	18,476	30,181	36,252	35,725	45,785	53,535	39,741	54,586	46,221
North Dakota		13,732	12,896	14,744	14,485	12,823	13,329	13,150	17,216	18,546	21,099
Ohio		74,411	74,125	72,225	70,426	68,428	66,562	60,451	62,021	55,657	61,208
Oklahoma		1,393,706	1,433,317	1,448,236	1,396,439	1,412,925	1,446,878	1,486,872	1,557,944	1,595,177	1,670,055
Oregon		1,555	1,596	1,115	840	734	468	457	624	371	663
South Dakota		685	598	538	510	523	509	428	438	453	1,222
Texas		4,715,593	4,869,777	4,940,417	4,886,656	4,962,056	5,072,699	5,319,815	5,647,050	6,214,058	7,075,389
Utah		239,524	244,989	265,032	260,714	257,510	264,789	281,368	321,626	348,601	403,310
Virginia		66,605	71,458	71,468	76,828	80,086	85,752	89,217	102,798	112,224	127,373
West Virginia		218,565	161,940	190,798	194,328	183,091	195,084	215,145	205,051	234,103	237,956
Wyoming		1,118,077	1,266,885	1,390,353	1,539,308	1,636,903	1,735,410	1,839,625	1,948,640	2,091,822	2,325,182
Fed. Offshore		4,316,714	4,177,882	4,278,528	3,829,757	3,715,894	3,355,752	2,594,879	2,376,086	2,292,279	1,905,309
TOTAL U.S.		17,286,958	17,434,509	17,872,507	17,375,334	17,434,045	17,388,474	17,250,875	17,637,563	18,460,113	19,776,681

Source: IHS. Data is not available for certain states. Data is dry natural gas production.

* Alaska data is not included as produced natural gas is re-injected in order to maintain reservoir pressure.

PRODUCING MARGINAL OIL WELLS

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	307	295	305	300	304	320	387	320	308	317
Alaska	95	101	136	145	151	140	144	153	163	177
Arizona	27	25	24	22	23	19	22	24	21	23
Arkansas	1,871	2,002	5,334	4,141	2,427	1,910	1,925	2,256	2,264	1,266
California	28,803	30,194	31,274	31,314	31,770	33,010	34,338	36,161	37,433	39,453
Colorado	4,437	4,504	4,454	4,455	4,344	4,384	4,334	4,331	4,302	4,304
Florida	11	9	7	13	33	11	15	8	12	12
Illinois	5,463	5,500	5,102	5,166	5,107	5,148	4,964	5,270	7,062	7,109
Indiana	1,124	1,142	1,114	1,108	1,043	1,051	995	1,061	1,790	1,792
Kansas	41,825	41,716	41,141	40,933	40,607	39,386	39,250	39,602	39,921	40,575
Kentucky	1,078	1,060	1,034	995	981	965	947	994	1,375	1,415
Louisiana	15,205	14,894	15,737	15,377	15,587	15,129	15,288	15,680	15,533	16,086
Michigan	2,240	3,306	3,520	3,386	3,502	3,508	3,665	3,640	3,689	3,590
Mississippi	919	864	867	793	822	850	883	965	1,033	1,126
Montana	2,733	2,810	3,465	2,714	2,731	2,817	2,853	2,943	2,945	3,066
Nebraska	1,199	1,190	1,172	1,154	1,140	1,177	1,157	1,182	1,152	1,178
Nevada	32	35	38	39	42	40	45	45	51	49
New Mexico	14,727	15,324	15,893	15,916	16,181	16,602	17,114	17,777	18,278	18,576
New York	NA	NA	NA	NA	2,249	2,164	1,966	2,077	2,279	2,513
North Dakota	2,019	2,035	2,085	2,819	2,163	2,412	2,164	2,183	2,249	2,321
Ohio	13,809	14,812	15,251	15,762	15,162	15,308	15,360	15,803	16,225	15,679
Oklahoma	59,045	56,384	56,346	53,846	49,700	48,542	47,937	48,269	47,029	35,010
South Dakota	57	57	54	52	61	64	75	71	70	54
Texas	145,466	146,200	145,415	142,031	139,807	138,498	138,295	140,374	142,134	145,240
Utah	1,288	1,315	1,360	1,421	1,442	1,582	1,756	1,982	2,116	2,367
West Virginia	1,456	1,143	1,544	2,016	1,201	1,722	1,480	1,689	1,975	2,124
Wyoming	8,997	9,248	9,360	9,237	9,355	9,473	9,911	10,528	9,775	9,688
Federal Offshore	599	630	669	707	640	648	755	621	609	676
TOTAL U.S.	354,832	356,795	362,701	355,862	348,575	346,876	348,021	356,209	361,793	355,786

Source: IHS.

Notes: A marginal oil well is defined as a well producing 15 barrels/day or less.

* Previous year data may be revised.

MARGINAL OIL WELL PRODUCTION

(thous. bbls.)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	709	703	748	752	754	740	809	706	693	708
Alaska	176	185	252	288	243	264	193	322	287	364
Arizona	30	30	39	34	32	24	37	40	27	37
Arkansas	2,910	3,103	4,095	3,212	2,881	3,042	3,046	2,882	2,898	1,895
California	58,766	62,439	63,431	62,603	62,889	64,825	66,663	69,810	71,058	73,049
Colorado	3,591	3,768	3,881	4,212	4,199	4,188	4,028	3,983	3,666	3,848
Florida	20	23	20	35	46	27	25	20	37	28
Illinois	5,507	5,551	5,068	5,227	5,267	5,104	4,249	5,159	5,791	5,732
Indiana	1,149	1,186	1,178	1,102	1,063	1,020	916	1,085	1,372	1,272
Kansas	26,276	25,835	25,504	25,250	25,016	24,607	24,541	25,301	24,810	25,673
Kentucky	793	804	799	753	698	701	677	671	773	740
Louisiana	10,702	10,617	10,342	10,043	9,773	9,547	10,029	9,543	9,915	9,781
Michigan	1,769	3,304	3,460	3,367	3,374	3,427	3,443	3,425	3,289	3,395
Mississippi	1,913	1,997	1,994	1,855	1,966	2,010	2,121	2,207	2,324	2,522
Montana	3,223	3,413	3,457	3,344	3,350	3,352	3,508	3,531	3,540	3,676
Nebraska	2,010	1,981	1,857	1,826	1,777	1,842	1,711	1,676	1,575	1,620
Nevada	60	71	89	92	90	91	103	117	130	114
New Mexico	19,574	20,064	20,549	20,516	20,825	21,045	21,788	22,312	22,646	22,850
New York	NA	NA	NA	NA	94	110	92	193	270	294
North Dakota	4,318	4,572	4,658	4,648	4,815	4,531	4,601	4,811	4,955	5,224
Ohio	3,692	4,042	4,364	4,152	3,871	3,669	3,716	3,732	3,723	3,740
Oklahoma	41,612	41,413	41,037	39,526	37,636	36,618	34,834	35,189	34,423	23,856
South Dakota	164	198	194	166	208	217	229	212	179	138
Texas	150,271	153,498	151,564	147,152	145,505	142,581	142,740	145,877	147,623	151,286
Utah	2,743	2,872	2,875	3,010	3,110	3,391	3,908	4,168	4,816	5,332
West Virginia	317	330	351	370	343	384	422	463	581	582
Wyoming	13,494	13,785	13,611	13,344	13,383	13,289	13,448	13,349	13,409	13,375
Fed Offshore	1,351	1,398	1,574	1,675	1,527	1,528	1,889	1,372	1,416	1,679
TOTAL U.S.	357,140	367,182	366,993	358,554	354,735	352,166	353,755	362,155	366,229	362,808

Source: IHS.

Notes: A marginal oil well is defined as a well producing 15 barrels/day or less.

* Previous year data may be revised.

PRODUCING MARGINAL NATURAL GAS WELLS

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	1,928	2,199	2,403	2,591	2,889	3,187	3,639	4,164	4,563	5,023
Arizona	3	3	3	5	2	2	2	2	2	2
Arkansas	1,809	2,019	2,149	2,208	2,383	2,519	2,736	2,892	2,996	3,346
California	619	685	676	693	701	720	777	836	899	987
Colorado	12,433	12,675	13,356	13,738	14,729	16,105	18,560	20,477	22,939	25,918
Kansas	8,355	10,967	10,223	12,044	11,891	13,531	15,083	17,196	18,776	20,006
Kentucky	9,684	10,074	10,405	10,868	11,329	12,129	11,616	12,617	8,444	NA
Louisiana	10,053	10,026	4,343	4,164	4,219	4,330	4,645	4,851	5,146	5,454
Michigan*	4,513	4,853	5,670	6,278	7,028	7,454	8,143	8,663	9,220	9,808
Mississippi	296	389	447	506	684	808	933	1,063	1,194	1,286
Montana	3,446	3,634	3,854	4,002	4,262	4,533	4,790	5,272	5,334	5,625
Nebraska	106	97	99	101	105	108	111	114	176	325
New Mexico	13,378	14,010	14,853	15,601	16,501	17,636	19,191	20,460	21,995	23,068
New York	5,653	5,590	6,147	6,282	6,165	6,421	6,429	6,640	6,898	7,076
North Dakota	61	64	65	60	73	79	104	156	188	210
Ohio	20,030	21,402	22,060	21,908	22,159	21,845	22,082	24,992	20,001	22,862
Oklahoma	15,069	16,135	17,605	18,924	20,321	21,716	23,393	24,955	26,707	28,135
Oregon	12	10	9	9	10	11	11	10	9	15
South Dakota	54	56	58	57	57	59	60	62	63	72
Texas	35,810	36,844	39,070	40,295	42,003	44,648	47,299	50,945	54,462	58,127
Utah	977	1,055	1,268	2,105	1,650	1,802	2,105	2,394	2,657	2,925
Virginia	1,695	2,003	2,260	2,440	2,702	3,085	3,438	4,117	4,802	5,251
West Virginia	38,724	29,366	38,704	40,052	38,843	40,451	43,242	40,544	46,507	43,844
Wyoming	2,804	4,664	7,162	9,591	11,127	13,443	15,526	18,060	19,592	20,554
Federal Offshore	687	739	771	818	809	796	890	723	735	892
TOTAL U.S.*	188,200	189,559	203,660	214,694	222,642	237,418	254,805	272,205	275,861	290,811

Source: IHS.

Notes: A marginal natural gas well is defined as a well producing 90 thousand cubic feet per day or less.

* Row may not total because it includes Pacific Coastal wells.

* Michigan data pre-2007 was derived from a calculated gas well count that increased well production and marginal well count compared to actual well counts used thereafter.

MARGINAL NATURAL GAS PRODUCTION

(Mmcf)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	30,121	33,921	37,297	39,224	44,565	47,877	53,491	60,237	66,314	71,335
Arizona	35	25	4	60	37	28	30	26	21	17
Arkansas	25,571	28,215	28,883	30,392	30,260	33,485	36,095	38,061	39,750	43,409
California	7,979	7,831	8,619	8,730	8,910	9,084	9,713	10,121	11,405	12,000
Colorado	126,150	129,869	141,619	153,957	172,671	195,752	219,516	244,131	259,934	292,816
Kansas	119,075	129,410	149,617	165,687	178,241	202,041	222,510	240,039	250,779	264,373
Kentucky	67,591	69,400	71,156	74,072	75,513	78,805	73,076	78,304	NA	NA
Louisiana	39,714	40,557	38,498	38,898	39,256	40,053	43,622	47,268	50,148	54,796
Michigan*	80,430	87,452	98,625	104,662	114,313	117,082	123,811	124,848	128,265	126,805
Mississippi	4,282	5,837	7,091	8,692	11,223	12,821	13,051	14,679	16,053	16,358
Montana	28,823	30,391	32,251	35,138	37,138	37,945	40,639	43,571	43,672	47,551
Nebraska	957	744	803	790	871	833	745	809	1,282	2,741
New Mexico	173,304	181,395	189,482	198,763	210,703	229,172	247,133	261,701	274,675	288,130
New York	12,512	12,181	12,152	11,770	11,015	10,892	10,885	11,582	12,755	13,604
North Dakota	430	440	446	570	679	967	1,726	2,262	22,64	2,342
Ohio	54,241	56,226	57,316	56,954	55,331	53,979	50,250	52,003	47,802	52,085
Oklahoma	195,411	211,217	225,447	240,546	257,931	270,739	288,113	304,086	320,222	331,595
Oregon	125	154	79	112	113	117	138	158	134	258
South Dakota	600	523	538	473	483	466	428	438	420	488
Texas	410,593	421,242	445,556	456,420	479,600	508,976	538,749	583,720	623,976	664,340
Utah	14,112	15,922	19,656	21,997	25,294	27,679	30,932	35,244	36,895	41,334
Virginia	23,534	28,446	31,964	35,408	36,924	40,141	43,994	53,268	61,584	70,117
West Virginia	159,474	126,932	157,127	162,879	152,036	161,214	175,204	167,499	189,735	185,857
Wyoming	36,181	56,571	88,040	110,670	136,706	157,753	174,246	187,707	195,370	191,676
Federal Offshore	8,277	9,158	10,033	10,078	9,897	9,722	11,030	8,802	9,109	10,182
TOTAL U.S.*	1,619,483	1,655,603	1,853,471	1,967,418	2,091,600	2,247,334	2,408,367	2,570,029	2,642,563	2,784,208

Source: IHS.

Notes: A marginal natural gas well is defined as a well producing 90 thousand cubic feet per day or less.

* Row may not total because it includes Pacific Coastal wells.

* Totals may not add due to rounding.

* Michigan data pre-2007 was derived from a calculated gas well count that increased well production and marginal well count compared to actual well counts used thereafter.

COST OF DRILLING AND EQUIPPING WELLS 2008

State	No. of Wells Drilled	Footage Drilled	Depth per Well (ft.)	Total Cost	Cost per Well	Cost per Foot (\$)
Alabama	348	1,250,337	3,593	621,094,000	1,784,753	496.74
Alaska	145	794,722	5,481	3,846,193,000	26,525,469	4,839.67
Arizona	0	0	0	0	0	0
Arkansas	1,093	7,413,573	6,783	2,945,293,000	2,694,687	397.28
California	2,666	7,094,652	2,661	4,239,314,000	1,590,140	597.54
Colorado	3,914	26,898,799	6,872	15,819,869,000	4,041,867	588.13
Florida	1	3,038	3,038	9,220,000	9,220,000	3,034.89
Illinois	495	1,153,307	2,330	341,569,000	690,038	296.16
Indiana	213	375,665	1,764	141,932,000	666,347	377.82
Kansas	4,242	11,689,330	2,756	1,767,011,000	416,551	151.16
Kentucky	1,238	3,563,757	2,879	635,305,000	513,170	178.27
Louisiana	1,770	15,712,900	8,877	10,905,648,000	6,161,383	694.06
Michigan	502	1,276,062	2,542	906,532,000	1,805,841	710.41
Mississippi	273	2,420,425	8,866	1,674,049,000	6,132,048	691.63
Montana	572	4,541,099	4,442	1,345,830,000	2,352,850	529.63
Nebraska	234	772,099	3,300	223,392,000	954,667	289.33
Nevada	5	23,700	4,740	5,955,000	1,191,000	251.27
New Mexico	1,688	10,315,537	6,111	3,323,443,000	1,968,864	322.18
New York	388	1,170,071	3,016	308,487,000	795,070	263.65
North Dakota	717	9,191,117	12,819	5,766,131,000	8,042,024	627.36
Ohio	1,006	3,894,691	3,871	546,435,000	543,176	140.30
Oklahoma	4,179	28,563,233	6,835	12,466,680,000	2,983,173	436.46
Pennsylvania	4,190	14,211,404	3,392	2,438,663,000	582,020	171.60
South Dakota	44	206,108	4,684	106,066,000	2,410,591	514.61
Tennessee	242	782,296	3,233	132,188,000	546,231	168.97
Texas	16,735	137,730,325	8,230	72,062,855,000	4,306,116	523.22
Utah	1,202	9,494,130	7,899	6,241,541,000	5,192,630	657.41
Virginia	635	1,640,058	2,583	299,244,000	471,250	182.46
Washington	0	0	0	0	0	0
West Virginia	1,826	8,589,129	6,071	1,349,120,000	738,839	157.07
Wyoming	3,020	16,507,711	5,466	14,702,204,000	4,868,279	890.63
Federal Offshore	488	5,018,173	10,283	25,153,430,000	51,543,914	5,012.47
TOTAL U.S.	54,072	330,300,168	6,109	190,325,976,960	3,519,862	576.22
Exploratory	4,967	31,206,186	6,283	19,242,401,532	3,874,049	616.62
Developmental	49,105	299,093,982	6,091	171,083,575,428	3,484,036	572.01

Source: IHS.

CRUDE OIL REVENUES

	(thous. \$.)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama		185,865	288,927	216,362	201,879	228,197	288,714	418,677	475,658	510,000	729,774
Alaska		4,828,307	8,439,528	6,448,392	7,021,406	8,509,077	11,027,864	14,890,978	15,425,817	16,819,997	22,536,136
Arizona		1,060	1,576	1,287	1,363	1,252	1,917	2,605	3,383	2,892	4,692
Arkansas		113,614	193,015	165,657	157,896	191,995	246,862	322,656	358,122	387,492	552,642
California		3,800,397	6,702,383	5,213,260	5,596,237	6,572,500	8,243,870	11,113,988	12,240,536	14,032,040	19,354,014
Colorado		320,807	533,177	410,026	448,493	648,257	892,277	1,263,025	1,492,282	1,557,808	2,184,103
Florida		85,663	134,339	NA	NA	NA	NA	NA	NA	NA	NA
Illinois		209,569	343,477	239,786	287,296	340,354	425,520	522,598	616,283	630,927	880,862
Indiana		33,997	58,555	47,436	45,970	52,929	67,006	88,112	102,666	113,067	170,787
Kansas		496,106	970,478	799,674	772,543	973,514	1,326,556	1,806,486	2,165,442	2,439,357	3,644,711
Kentucky		46,320	91,719	66,892	60,251	69,059	93,817	125,356	136,492	169,558	240,351
Louisiana		2,110,941	3,041,511	2,548,300	2,307,012	2,731,264	3,343,113	4,043,624	4,719,199	5,456,018	7,355,128
Michigan		130,313	222,345	167,339	170,946	190,370	250,848	297,815	310,113	347,791	595,852
Mississippi		276,804	520,508	412,627	398,312	455,644	635,176	877,318	1,030,079	1,400,185	2,090,849
Missouri		1,436	2,667	1,854	2,045	2,169	3,269	4,239	4,989	4,862	8,312
Montana		247,058	429,207	368,707	383,620	553,711	952,616	1,730,144	2,055,693	2,251,347	2,837,788
Nebraska		45,830	82,707	69,164	65,640	78,876	96,319	126,393	133,622	146,529	210,648
Nevada		9,792	14,084	9,798	9,904	12,098	14,807	19,078	24,836	26,194	39,885
New Mexico		1,124,005	1,935,302	1,612,984	1,616,359	1,952,158	2,521,263	3,205,274	3,693,163	4,055,809	5,716,351
New York*		3,333	6,006	3,778	4,461	4,163	6,698	10,764	20,260	26,395	42,375
North Dakota*		549,129	922,349	746,323	748,481	860,714	1,224,352	1,867,871	2,262,555	2,942,287	5,566,976
Ohio*		97,968	180,747	136,450	135,750	159,132	221,392	302,212	340,990	371,431	551,097
Oklahoma		1,253,780	2,034,902	1,691,345	1,632,063	1,942,380	2,496,955	3,384,253	3,965,896	4,224,583	6,159,850
Oregon		6	0	0	0	0	0	0	0	0	0
Pennsylvania		27,199	43,200	40,208	55,512	71,780	100,200	215,388	232,137	255,710	349,400
South Dakota*		18,546	32,971	29,982	29,087	35,799	52,109	74,405	72,279	104,529	148,352
Tennessee		5,496	9,093	7,708	6,020	8,260	13,162	14,765	10,956	18,565	31,655
Texas		7,767,239	12,681,154	9,932,793	9,792,883	11,820,983	15,239,311	20,395,845	24,353,558	27,107,463	38,547,656
Utah		287,516	446,095	367,421	326,446	378,212	575,651	898,821	1,069,227	1,219,610	1,904,587
Virginia		135	NA	NA	NA	131	NA	NA	NA	NA	NA
West Virginia		24,213	37,968	27,401	31,164	37,432	51,391	84,011	110,309	105,883	151,447
Wyoming		1,006,745	1,632,922	1,237,681	1,201,585	1,395,598	1,811,827	2,355,694	2,817,138	3,157,944	4,556,804
TOTAL U.S.		25,109,181	42,032,860	33,020,634	33,510,275	40,278,009	52,224,862	70,462,396	80,243,676	89,886,271	127,163,085

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. \$.)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	885,546	1,450,233	1,509,306	1,204,585	1,874,005	2,160,750	2,751,780	2,166,685	2,011,828	2,488,581
Alaska**	634,265	807,831	938,166	986,831	1,180,314	1,613,895	2,314,590	2,574,952	2,440,521	2,944,486
Arizona	986	1,288	1,265	783	1,918	1,695	1,596	3,593	3,917	3,708
Arkansas	600,269	897,688	832,352	717,089	876,827	1,062,552	1,383,270	1,737,984	1,783,946	3,893,925
California	903,207	1,811,350	2,618,320	1,051,799	1,699,569	1,807,542	2,336,396	2,039,402	2,033,399	2,484,410
Colorado	1,575,569	2,763,455	3,138,071	2,258,760	4,591,234	5,622,814	8,418,829	7,361,265	5,678,549	9,642,429
Florida	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Illinois	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indiana	1,872	3,155	3,490	4,071	7,920	21,426	28,560	17,555	20,843	35,634
Kansas	960,154	1,687,590	1,757,331	1,187,292	1,813,807	1,961,778	2,455,761	2,081,557	2,081,840	2,564,024
Kentucky	158,914	257,682	390,636	265,660	397,740	495,802	634,718	841,676	701,462	960,857
Louisiana	3,478,554	5,354,452	5,993,323	4,357,603	7,616,250	8,065,364	11,301,539	9,432,555	9,572,037	12,024,667
Maryland	49	128	133	132	216	213	342	366	NA	NA
Michigan	490,934	723,597	954,375	592,868	950,318	999,772	1,383,894	NA	NA	1,532,255
Mississippi	180,964	292,241	422,636	345,719	686,912	369,348	451,962	414,032	492,182	850,441
Missouri	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Montana	102,754	198,618	253,959	205,719	320,881	436,397	709,021	624,033	668,371	843,968
Nebraska	1,389	2,753	2,609	1,806	4,609	4,753	4,922	NA	7,557	19,170
New Mexico	3,189,626	5,814,862	6,570,696	4,373,974	7,314,308	8,113,719	11,368,097	9,944,998	10,628,430	12,148,114
New York*	37,040	66,589	138,935	111,552	208,872	321,429	429,300	399,137	486,237	449,861
North Dakota	122,640	210,538	193,204	155,741	196,596	315,202	441,479	360,380	365,149	525,286
Ohio*	266,107	426,808	454,486	466,274	564,282	601,665	754,213	668,941	668,641	668,681
Oklahoma	3,267,704	5,854,791	6,509,998	4,649,922	7,744,030	9,139,845	11,819,425	10,674,385	10,885,012	14,462,499
Oregon	3,253	3,266	4,063	3,323	3,275	1,817	1,930	2,745	2,155	4,147
Pennsylvania	539,826	346,500	446,209	538,098	NA	NA	NA	NA	NA	NA
South Dakota	1,459	5,881	3,762	3,024	5,493	6,001	7,380	6,163	7,184	13,053
Tennessee	2,804	4,704	7,200	6,991	9,412	14,490	21,010	18,055	26,135	41,595
Texas	11,675,863	20,758,669	21,764,819	16,245,797	27,161,677	29,542,446	39,836,828	36,616,945	42,520,234	58,897,676
Utah	506,845	883,255	999,374	546,731	1,101,718	1,456,558	2,156,757	1,912,277	1,452,939	2,666,431
Virginia*	179,756	284,034	329,965	453,915	397,612	NA	NA	NA	NA	NA
West Virginia	653,509	855,810	790,583	654,457	814,718	928,892	1,563,234	1,617,050	1,585,922	1,822,189
Wyoming	1,913,323	3,635,016	4,759,938	3,925,684	6,357,383	7,897,327	11,245,715	10,624,776	8,942,992	15,605,471
TOTAL U.S.	32,350,548	55,414,592	61,789,202	45,316,197	73,901,897	82,963,490	113,852,652	102,141,507	107,308,596	147,593,556

Source: EIA wellhead price and marketed production data.

* State data used when EIA not available.

** Alaska natural gas is reinjected.

ABANDONMENTS

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	10	60	38	19	34	29	19	78	20	2
Arizona	1	0	0	0	0	0	4	0	0	0
Arkansas	112	142	92	66	108	69	76	73	125	119
California	1,116	1,647	1,478	2,521	2,501	1,629	2,496	1,999	2,119	1,519
Colorado	157	178	193	152	215	212	206	282	104	946
Florida	0	0	0	0	0	0	0	1	2	4
Illinois	590	647	699	715	659	554	557	853	735	609
Indiana	61	80	101	127	102	80	27	159	374	275
Kansas	2,198	844	1,877	2,020	2,270	1,473	2,379	1,318	885	955
Kentucky	239	310	262	289	312	263	236	503	240	288
Louisiana	956	933	1,169	1,127	1,500	898	951	750	791	207
Michigan	172	166	196	220	177	196	136	87	108	79
Mississippi	107	128	93	144	106	90	59	34	91	8
Missouri	4	12	1	4	12	4	7	11	27	0
Montana	180	202	160	124	169	113	159	227	222	197
Nebraska	70	67	85	108	81	55	19	15	20	32
New Mexico	256	223	338	389	263	752	640	420	575	572
New York	68	94	59	106	115	83	75	19	110	122
North Dakota	70	78	89	57	40	50	28	71	18	15
Ohio	603	598	624	581	500	572	818	577	598	492
Oklahoma	1,164	1,247	975	1,139	1,056	956	1,407	1,090	1,090	3,546
Pennsylvania	712	420	324	358	328	306	320	100	323	342
South Dakota	8	0	0	1	2	0	2	0	0	0
Tennessee	127	138	57	53	86	50	25	34	250	0
Texas	5,355	5,486	6,305	6,579	6,902	6,718	6,160	6,417	5,030	733
Utah	54	36	42	22	17	57	73	65	125	105
Virginia	0	0	9	9	60	45	44	98	0	0
West Virginia	330	314	420	246	327	335	308	285	276	0
Wyoming	48	172	139	329	241	517	570	635	706	0
TOTAL U.S.	14,768	14,222	15,825	17,505	18,183	16,106	17,782	16,201	14,970	11,169

Source: IOGCC.

Note: 2008 data for oil and gas wells plugged and abandoned as of January 1, 2009. Some state data may be estimated.

SEVERANCE AND PRODUCTION TAXES

<i>(thous. \$)</i>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	37,899	68,341	107,024	53,235	92,695	101,184	132,300	177,280	139,380	192,752
Alaska	507,000	759,000	558,772	519,368	1,093,356	651,900	863,000	1,199,500	2,208,400	6,879,000
Arizona	6,398	6,060	7,026	6,510	8,377	9,899	10,022	7,979	6,761	5,488
Arkansas	4,616	9,476	9,546	6,608	8,355	9,802	15,078	15,078	14,928	21,427
California	194,606	215,696	239,921	189,306	214,473	188,753	268,796	328,876	471,185	467,130
Colorado	23,327	24,641	54,384	48,914	23,613	107,145	134,050	196,668	126,244	139,551
Florida	4,157	6,046	8,258	5,197	5,469	6,084	8,278	9,527	9,288	13,386
Indiana	502	653	572	567	590	845	1,119	1,215	1,350	2,082
Kansas	120,333	56,900	109,232	59,895	84,212	116,677	148,855	148,855	131,217	421,100
Kentucky	8,452	11,414	20,678	14,610	17,800	22,170	28,630	42,586	38,538	55,036
Louisiana	240,055	354,314	478,805	454,429	480,749	677,320	714,729	885,402	981,229	1,017,654
Maryland	1	1	2	1	1	1	4	4	3	1
Michigan	30,570	40,012	61,279	35,967	54,651	56,186	66,749	88,143	67,796	103,928
Mississippi	14,518	23,751	11,817	28,201	43,413	62,631	84,409	6,809	8,364	129,821
Montana	28,997	43,770	92,818	50,304	75,454	114,218	180,077	204,129	242,776	327,932
Nebraska	1,017	2,108	1,868	1,455	1,845	2,191	2,926	2,796	2,894	5,855
Nevada	151	341	174	182	248	356	527	577	576	907
New Mexico	227,200	345,300	355,370	479,109	571,862	737,200	926,884	1,169,271	987,921	1,282,483
North Dakota	35,402	71,275	66,800	62,300	66,846	73,914	157,500	166,147	185,970	534,700
Ohio	3,327	3,090	2,884	2,799	2,900	2,691	2,615	2,554	2,452	2,501
Oklahoma	253,039	410,412	745,236	417,103	600,980	701,156	875,653	1,168,598	1,001,328	1,266,655
Oregon	98	146	119	145	89	72	79	90	117	364
South Dakota	730	1,051	1,566	1,239	1,522	1,658	2,507	3,256	3,153	5,527
Tennessee	363	532	380	498	592	592	813	1,041	1,838	1,952
Texas	659,396	1,153,086	1,956,108	1,049,054	1,492,743	1,887,879	2,338,380	3,200,807	2,730,513	4,121,527
Utah	11,109	17,313	42,106	20,603	28,689	39,356	57,116	77,074	70,178	70,919
West Virginia	19,161	18,048	34,549	28,382	30,475	41,544	53,557	84,947	80,294	87,606
Wyoming	125,178	567,445	581,532	327,497	370,381	504,731	713,456	660,461	595,031	947,880
TOTAL U.S.	2,557,601	4,210,222	5,548,823	3,863,479	5,372,380	6,117,250	7,787,983	9,851,714	10,109,721	18,105,163

Source: Various state and industry contacts.

Notes: Figures include all state and local tax revenues. States vary on the use of fiscal (Arizona) or calendar year data. West Virginia data switched to FY in 2001. Totals may not add due to rounding. Some taxes may include other commodities - for example Arizona's Transaction Privilege Tax includes taxes paid on coal, sand and gravel transactions in addition to oil and natural gas. Nevada's tax has been revised to include the Net Proceeds of Minerals Tax.

CRUDE OIL WELLHEAD PRICES

(\$/bbl.)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	16.71	27.63	23.18	23.39	28.97	38.79	53.26	63.16	71.10	96.71
Alaska	12.60	23.76	18.35	19.54	23.93	33.17	47.21	57.03	63.81	90.19
Arizona*	16.06	26.72	21.82	21.63	26.63	36.86	52.09	61.51	67.26	90.24
Arkansas	15.89	26.98	21.82	21.50	26.57	36.67	50.86	58.67	64.25	90.91
California	13.92	24.72	20.00	21.69	26.29	34.32	48.26	54.78	64.73	90.21
Colorado	17.37	28.85	24.82	25.29	30.71	40.38	55.34	63.80	67.04	90.80
Florida	17.50	29.04	NA	NA	NA	NA	NA	NA	NA	NA
Illinois	17.37	28.14	23.76	23.84	29.10	38.74	51.20	59.70	65.66	93.48
Indiana	17.31	27.91	23.46	23.43	28.38	38.18	51.02	59.31	65.47	91.92
Kansas	17.08	28.16	23.56	23.61	28.68	39.18	53.41	60.74	66.85	92.08
Kentucky	16.68	26.47	22.53	22.49	27.21	36.82	49.45	58.33	63.60	90.87
Louisiana	17.59	28.85	24.36	24.68	30.31	40.08	53.57	63.88	71.18	100.74
Maryland	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Michigan	16.63	28.12	22.69	23.68	29.18	39.14	53.67	60.89	66.87	95.75
Mississippi	15.42	26.23	21.13	22.11	27.46	37.03	49.58	59.35	68.65	94.60
Missouri*	15.61	28.37	20.37	21.53	26.45	37.15	49.87	57.34	60.77	83.96
Montana	16.54	27.82	23.16	22.76	28.66	38.53	52.66	56.69	64.64	89.96
Nebraska	17.21	27.97	23.67	23.62	28.63	38.42	52.38	57.77	62.78	87.99
Nevada*	13.87	22.68	17.13	17.91	24.54	31.98	42.68	58.30	64.20	91.48
New Mexico	17.46	28.80	23.72	24.11	29.52	39.25	52.84	61.74	68.94	96.23
New York	16.18	28.60	22.76	24.92	28.91	39.40	54.64	63.51	69.46	109.78
North Dakota	16.70	28.19	23.55	24.15	29.27	39.30	52.38	56.69	65.30	88.68
Ohio	16.41	27.49	22.55	22.61	28.18	38.27	53.47	62.89	68.09	96.43
Oklahoma	17.77	29.08	24.68	24.49	29.72	39.95	54.46	63.11	69.31	96.15
Oregon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pennsylvania	18.49	28.80	24.82	24.86	29.60	39.48	54.57	64.02	70.00	96.76
South Dakota	16.86	28.18	23.89	23.96	28.94	38.40	50.65	51.85	62.78	87.42
Tennessee*	15.93	26.28	21.96	21.89	26.56	36.46	45.57	57.06	65.37	92.02
Texas	17.29	28.60	23.41	23.77	29.13	38.79	52.61	61.31	68.30	96.85
Utah	17.69	28.53	24.09	23.87	28.88	39.35	53.98	59.70	62.48	86.58
Virginia*	16.88	NA	NA	NA	26.23	NA	NA	NA	NA	NA
West Virginia	16.46	27.12	22.35	22.55	28.06	38.38	53.75	63.07	67.27	95.07
Wyoming	16.47	26.89	21.55	21.96	26.63	35.10	45.63	53.25	58.34	86.07
TOTAL U.S.	15.56	26.72	21.84	22.51	27.56	36.77	50.28	59.69	66.52	94.02

Source: Energy Information Administration and State Sources*

Notes: Data represent average first purchase price of crude oil at the lease or wellhead.

Wellhead prices for Alaska, California, Louisiana and Texas are derived from formulas that include proportional production for onshore and offshore.

NATURAL GAS WELLHEAD PRICES

	(\$/Mcf)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama		2.32	3.99	4.23	3.48	5.93	6.66	9.28	7.57	7.44	9.65
Alaska		1.37	1.76	1.99	2.13	2.41	3.42	4.75	5.79	5.63	7.39
Arizona*		2.08	3.50	4.12	2.60	4.33	5.12	6.86	5.70	5.98	7.09
Arkansas		4.10	5.23	4.99	4.43	5.17	5.68	7.26	6.43	6.61	8.72
California		2.36	4.81	6.93	2.92	5.04	5.65	7.45	6.47	6.62	8.38
Colorado		2.18	3.67	3.84	2.41	4.54	5.21	7.43	6.12	4.57	6.94
Florida*		2.50	1.76	NA	NA	NA	NA	NA	NA	NA	NA
Illinois*		2.74	2.05	NA	NA	NA	NA	NA	NA	NA	NA
Indiana		2.19	3.51	3.28	3.11	5.41	6.30	9.11	6.01	5.78	7.58
Kansas		1.80	3.21	3.66	2.61	4.33	4.94	6.51	5.61	5.69	6.85
Kentucky		2.07	3.16	4.78	3.01	4.54	5.26	6.84	8.83	7.35	8.42
Louisiana		2.22	3.68	3.99	3.20	5.64	5.96	8.72	6.93	7.02	8.73
Maryland		2.73	3.75	4.15	5.98	4.50	6.25	7.43	7.63	NA	NA
Michigan*		1.77	2.44	3.47	2.16	4.01	3.85	5.30	NA	8.46	5.63
Mississippi		1.63	3.30	3.93	3.06	5.13	5.83	8.54	6.84	6.70	8.80
Missouri		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Montana		1.68	2.84	3.12	2.39	3.73	4.51	6.57	5.53	5.72	7.50
Nebraska		1.36	2.26	2.16	1.52	3.17	3.22	4.29	NA	4.86	6.22
New Mexico		2.11	3.43	3.89	2.68	4.56	4.97	6.91	6.18	6.88	8.40
New York		2.16	3.75	5.00	3.03	5.78	6.98	7.78	7.13	8.85	8.94
North Dakota		2.32	3.94	3.53	2.73	3.53	5.73	8.40	6.52	6.67	8.55
Ohio		2.43	4.06	4.54	4.52	5.90	6.65	9.03	7.75	7.59	7.88
Oklahoma		2.05	3.63	4.03	2.94	4.97	5.52	7.21	6.32	6.24	7.56
Oregon		2.52	2.69	3.66	3.97	4.48	3.89	4.25	4.42	5.27	5.33
Pennsylvania*		3.09	2.31	3.41	3.41	NA	NA	NA	NA	NA	NA
South Dakota		2.13	3.56	3.42	2.95	4.98	5.49	7.44	6.40	7.22	7.94
Tennessee		2.28	4.09	3.60	3.41	5.22	6.90	9.55	6.78	6.63	8.85
Texas		2.31	3.93	4.12	3.16	5.18	5.83	7.55	6.60	6.98	8.51
Utah*		1.93	3.28	3.52	1.99	4.11	5.24	7.16	5.49	3.86	6.15
Virginia*		2.49	3.97	4.29	3.16	4.65	NA	NA	NA	NA	NA
West Virginia*		2.99	3.24	4.12	3.44	4.34	4.71	7.07	7.17	6.86	7.42
Wyoming		1.97	3.34	3.49	2.70	4.13	4.96	6.86	5.85	4.65	6.86
TOTAL U.S.		2.19	3.68	4.00	2.95	4.88	5.46	7.33	6.39	6.25	7.96

Source: Energy Information Administration and State Sources*

REFINER ACQUISITION COST OF CRUDE OIL

(\$/bbl.)	Domestic	Imported	Composite
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
2007	69.65	67.04	67.94
2008	98.47	92.77	94.74

Source: Energy Information Administration

RETAIL GASOLINE PRICES

(¢/gal.)	Excluding Taxes	Taxes	Pump Price
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
2007	234.5	44.1	278.6
2008	277.5	49.1	326.6

Source: Energy Information Administration. Pump price quoted for unleaded regular.

WORLD CRUDE OIL RESERVES

(mill. bbls.)	United States	Canada	Latin America	Middle East	Africa	Asia Pacific	Western Europe	Eastern Europe & FSU	Total World
1991	26,254	5,588	119,765	661,571	60,488	44,073	14,503	58,774	991,011
1992	24,682	5,292	123,811	661,791	61,872	44,572	15,829	59,193	997,042
1993	23,745	5,096	124,996	662,866	61,963	44,647	16,643	59,168	999,124
1994	22,957	5,096	129,073	660,295	62,177	44,453	16,572	59,196	999,319
1995	22,457	4,898	128,695	659,555	73,154	43,953	15,573	59,188	1,007,475
1996	22,351	4,893	127,943	676,352	67,555	42,299	18,361	59,093	1,018,849
1997	22,017	4,839	126,115	676,952	70,062	42,275	18,128	59,101	1,019,545
1998	22,546	4,931	136,867	673,647	75,442	43,013	18,719	59,053	1,034,265
1999	21,034	4,931	117,931	675,636	74,890	43,985	18,611	59,024	1,016,041
2000	21,765	4,706	122,809	683,516	74,889	43,957	17,185	59,024	1,027,852
2001	22,045	4,858	122,912	685,592	76,677	43,779	17,135	58,555	1,031,553
2002	22,446	180,021	111,173	685,642	77,429	38,712	18,098	79,360	1,212,881
2003	22,677	178,893	114,522	726,842	87,043	38,258	18,233	79,343	1,265,812
2004	21,891	178,800	115,195	729,341	100,784	36,246	16,102	79,343	1,277,702
2005	21,371	178,792	116,246	743,411	102,580	35,936	14,842	79,370	1,292,550
2006	21,757	179,210	115,150	739,205	114,073	33,366	14,695	99,992	1,317,447
2007	20,972	178,592	121,507	748,286	114,838	34,350	13,157	99,997	1,331,698
2008	21,317	178,092	133,188	745,998	117,064	34,006	12,546	99,997	1,342,207

Source: Oil & Gas Journal Worldwide Reserves & Production Report. 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			
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	53.30	53.60	35.40	51.70	21.71	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	167.00	172.30	172.00	97.10	152.10	63.88	50.28
2006	196.90	196.10	199.10	113.60	176.95	74.10	59.69
2007	218.20	217.10	219.00	135.00	197.00	82.87	66.52
2008	259.00	302.00	297.00	186.60	261.15	109.70	94.04

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.

WHOLESALE PRICES — TOTAL U.S.

PETROLEUM CONSUMPTION

(mill. bbls.)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	101.6	105.4	103.9	108.1	107.1	117.1	115.3	115.9	115.1	110.0
Alaska	48.6	48.5	50.7	48.7	50.0	58.9	58.7	60.3	57.0	49.1
Arizona	92.9	94.6	95.7	97.8	99.3	108.6	108.7	110.7	109.7	106.4
Arkansas	71.6	73.1	70.4	70.1	69.6	71.7	70.7	70.8	71.2	69.5
California	628.5	654.1	661.7	685.8	701.2	693.1	705.3	714.1	718.3	682.6
Colorado	77.8	83.5	86.9	83.3	86.7	93.7	92.6	96.1	97.8	94.1
Connecticut	83.2	81.2	76.6	70.8	79.8	86.0	82.7	75.0	73.1	67.1
Delaware	25.8	24.9	26.7	26.1	26.6	25.5	26.9	25.1	24.7	23.2
Dist.of Columbia	6.1	6.3	6.1	6.1	5.4	5.6	5.3	4.3	4.2	3.6
Florida	341.4	354.2	352.7	345.4	351.4	382.7	390.1	373.3	361.3	331.8
Georgia	192.6	193.7	193.0	192.5	196.1	206.3	213.3	207.8	202.7	190.1
Hawaii	39.7	40.6	41.5	44.8	46.7	49.1	51.2	51.6	52.9	42.6
Idaho	30.0	30.7	28.6	29.1	25.6	28.8	29.5	30.6	30.6	29.2
Illinois	250.6	248.6	243.0	237.7	243.2	255.7	276.1	265.5	264.3	254.0
Indiana	162.5	164.9	152.1	161.7	166.8	164.6	163.2	163.5	160.7	153.6
Iowa	82.8	82.4	78.8	82.4	76.4	86.5	88.3	90.0	86.3	83.6
Kansas	86.6	79.3	73.7	71.1	83.8	81.8	64.8	66.7	82.6	78.7
Kentucky	132.8	130.8	122.8	133.1	125.7	139.2	138.2	138.7	137.3	128.6
Louisiana	278.9	327.7	325.8	331.5	300.9	310.5	297.9	321.4	302.2	275.2
Maine	48.1	47.1	40.7	41.3	47.3	46.6	47.6	42.9	43.0	38.6
Maryland	105.3	102.1	103.9	100.7	104.7	108.8	112.5	103.4	103.0	99.4
Massachusetts	133.7	138.2	135.4	130.8	133.1	135.5	136.8	124.4	125.8	121.0
Michigan	208.0	201.5	194.0	198.1	193.4	197.4	198.4	187.0	187.5	172.9
Minnesota	122.1	125.6	125.0	126.3	129.2	133.0	134.1	134.1	131.0	136.3
Mississippi	87.5	85.0	89.1	80.4	89.1	88.5	84.2	86.9	85.5	78.7
Missouri	145.5	128.8	136.9	138.5	140.5	142.8	142.2	141.1	141.9	134.5
Montana	30.6	29.7	28.5	29.3	28.6	32.2	33.5	35.5	38.2	33.6
Nebraska	45.9	42.0	41.0	42.9	43.3	44.5	43.2	43.3	43.7	42.2
Nevada	41.9	43.4	45.9	43.8	44.4	48.3	51.2	54.0	53.6	49.8
New Hampshire	34.5	34.0	31.1	32.8	36.6	37.7	35.4	32.1	32.0	32.0
New Jersey	221.5	226.6	232.2	229.5	222.9	229.8	239.9	234.1	247.0	233.9
New Mexico	47.6	45.8	45.3	45.8	46.1	47.8	47.7	50.2	53.8	50.2
New York	294.1	308.7	297.6	287.6	319.0	337.1	331.0	292.6	295.4	283.2
North Carolina	172.5	180.8	177.0	172.8	176.4	184.0	185.8	181.0	182.1	180.3
North Dakota	22.9	22.5	26.4	23.3	22.6	25.0	25.7	25.4	26.4	26.1
Ohio	245.4	242.3	240.2	244.4	251.7	250.7	247.5	248.8	248.52	238.0
Oklahoma	93.5	95.4	106.4	101.6	99.6	98.2	105.6	111.7	104.6	103.5
Oregon	71.4	69.2	65.0	67.6	65.6	67.8	69.3	70.5	70.0	68.4
Pennsylvania	248.2	259.7	264.4	260.2	267.3	276.0	279.2	269.4	266.5	253.8
Rhode Island	17.9	17.8	18.3	18.0	18.6	18.1	17.9	17.2	16.9	17.7
South Carolina	85.6	88.5	95.1	94.9	97.4	112.3	108.1	109.2	106.2	103.7
South Dakota	21.4	22.1	20.9	22.7	21.3	21.6	22.4	22.1	22.7	22.1
Tennessee	129.2	130.8	136.8	142.7	144.6	148.8	153.1	152.6	151.4	139.9
Texas	1,152.1	1,125.0	1,113.7	1,151.0	1,160.7	1,200.1	1,162.5	1,199.2	1,208.0	1,121.8
Utah	46.8	49.2	48.2	47.6	49.9	50.6	53.0	57.0	55.7	52.9
Vermont	15.7	16.6	17.0	16.2	16.3	17.9	17.3	17.0	16.7	15.6
Virginia	156.7	164.6	168.9	164.2	177.1	189.7	189.9	185.2	186.8	173.2
Washington	153.8	152.6	142.6	136.2	133.6	136.9	141.1	145.9	152.2	145.8
West Virginia	38.8	39.4	48.3	50.2	47.7	53.0	51.9	53.0	52.4	49.4
Wisconsin	126.1	124.9	116.3	117.6	112.2	118.3	117.4	115.7	116.2	112.5
Wyoming	26.3	26.2	28.9	27.8	28.9	28.4	28.9	31.0	31.6	32.0
Total U.S.	7,124.6	7,210.6	7,171.8	7,212.9	7,312.2	7,587.6	7,592.8	7,550.9	7,548.3	7,136.3

Source: Energy Information Administration.

NATURAL GAS CONSUMPTION

(MMcf.)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Alabama	337,270	353,614	332,693	379,343	350,345	382,367	353,156	391,093	418,512	404,157
Alaska	422,816	427,288	408,960	419,131	414,234	406,319	432,972	373,850	369,967	341,895
Arizona	165,076	205,235	240,812	250,734	272,921	349,622	321,584	358,069	393,954	399,501
Arkansas	252,853	251,329	227,943	242,325	246,916	215,124	213,609	233,868	226,439	234,904
California	2,339,521	2,508,797	2,464,565	2,273,193	2,269,405	2,406,889	2,248,256	2,315,721	2,395,674	2,449,599
Colorado	333,085	367,920	463,738	459,397	436,253	440,378	470,321	450,832	504,775	504,824
Connecticut	152,237	159,712	146,278	177,587	154,075	162,642	168,067	172,682	180,181	166,821
Delaware	56,013	48,387	50,113	52,216	46,177	48,057	46,904	43,190	48,155	48,164
Dist.of Columbia	32,281	33,468	29,802	32,898	32,814	32,227	32,085	29,049	32,966	31,905
Florida	559,366	541,847	543,143	689,337	689,986	734,178	778,209	891,611	917,244	942,841
Georgia	337,576	413,845	351,109	383,546	379,761	394,986	412,560	420,469	441,107	425,153
Hawaii	3,115	2,841	2,818	2,734	2,732	2,774	2,795	2,783	2,850	2,702
Idaho	70,672	72,697	80,279	71,481	69,868	75,335	74,540	75,709	81,937	88,545
Illinois	1,004,281	1,030,604	951,616	1,049,878	998,486	953,207	969,642	893,997	965,591	1,000,548
Indiana	556,932	570,558	501,711	539,034	527,037	526,701	531,111	496,303	535,796	551,447
Iowa	230,691	232,565	224,336	226,457	230,161	226,819	241,340	238,454	293,274	320,463
Kansas	302,932	312,369	272,500	304,992	281,346	256,779	255,123	264,253	286,538	282,897
Kentucky	218,399	225,168	208,974	227,920	223,226	225,470	234,080	211,049	229,799	225,299
Louisiana	1,495,478	1,536,725	1,219,013	1,341,444	1,233,505	1,281,428	1,254,370	1,217,871	1,289,421	1,238,672
Maine	6,572	44,779	95,733	101,536	70,832	72,565	57,835	49,605	56,530	61,193
Maryland	196,350	212,133	178,376	196,276	197,024	194,725	202,509	182,294	201,053	196,154
Massachusetts	344,790	343,314	349,103	393,194	403,991	372,532	378,068	370,664	408,704	373,700
Michigan	951,143	963,136	906,001	966,354	924,819	916,629	913,827	803,336	798,126	779,381
Minnesota	344,591	362,025	340,911	371,583	371,261	359,898	367,825	352,570	388,335	401,247
Mississippi	306,733	300,652	332,589	343,890	265,842	282,051	301,663	307,305	364,067	355,007
Missouri	265,798	284,763	283,793	275,629	262,529	263,945	268,040	252,697	272,536	296,070
Montana	62,129	67,955	65,051	69,532	68,473	66,829	68,355	73,879	73,822	76,423
Nebraska	121,487	126,962	121,984	120,333	118,922	115,011	119,070	129,885	150,808	167,614
Nevada	154,689	189,170	176,835	176,596	185,846	214,984	227,149	249,608	254,406	264,624
New Hampshire	20,313	24,950	23,398	24,901	54,147	61,172	70,484	62,549	62,132	70,537
New Jersey	715,630	605,275	564,923	598,602	612,890	620,806	602,388	547,206	618,965	614,927
New Mexico	236,264	266,469	266,283	235,098	221,021	223,575	220,717	223,636	234,236	246,715
New York	1,274,162	1,244,746	1,171,898	1,199,632	1,101,618	1,098,056	1,080,215	1,097,160	1,187,059	1,180,127
North Carolina	217,159	233,714	207,108	235,376	218,642	224,796	229,715	223,032	237,354	243,090
North Dakota	56,418	56,528	60,819	66,726	60,907	59,986	53,050	53,336	594,453	63,097
Ohio	841,966	890,962	804,243	830,955	848,388	825,753	825,961	742,359	806,350	792,339
Oklahoma	538,329	538,563	491,458	508,298	540,103	538,576	582,536	624,400	658,379	669,768
Oregon	235,009	224,888	229,665	202,164	212,556	234,997	232,562	222,608	251,927	268,492
Pennsylvania	688,740	702,847	634,794	675,583	689,992	696,175	691,591	659,754	752,401	749,948
Rhode Island	118,001	88,419	95,607	87,805	78,456	72,609	80,764	77,204	87,972	89,308
South Carolina	162,926	160,436	141,785	184,803	146,641	163,787	172,032	174,806	175,701	170,079
South Dakota	35,794	37,939	37,077	41,577	43,881	41,679	42,555	40,739	53,938	64,359
Tennessee	278,841	270,658	255,990	255,515	257,315	231,133	230,338	221,626	221,118	229,976
Texas	4,009,689	4,421,777	4,252,152	4,303,831	4,050,632	3,908,243	3,503,636	3,432,236	3,516,706	3,545,795
Utah	159,889	164,557	159,299	163,379	154,125	155,891	160,275	187,399	219,700	224,220
Vermont	8,033	10,426	7,919	8,367	8,400	8,685	8,372	8,056	8,867	8,624
Virginia	276,793	268,770	237,853	258,202	262,970	277,434	299,746	274,175	319,913	299,399
Washington	287,302	286,653	312,114	233,716	249,599	262,485	264,754	263,395	272,613	298,226
West Virginia	139,961	147,854	141,090	146,455	126,986	122,267	117,136	113,084	115,974	111,482
Wisconsin	380,560	393,601	359,784	385,310	394,711	383,316	410,250	372,462	398,370	409,259
Wyoming	96,726	101,314	98,569	112,872	115,358	107,060	108,314	108,481	140,912	142,710
Total U.S.	22,405,151	23,333,121	22,238,624	23,007,017	22,276,502	22,388,975	22,010,596	21,684,641	23,097,140	23,226,612

Source: Energy Information Administration. Total Consumption - includes Lease & Plant Fuel and Pipeline and Distribution Use.

NATURAL GAS CONSUMPTION

ENERGY CONSUMPTION BY STATE

Trillion BTU	Petroleum	Natural Gas	Coal	Nuclear	Renewable Energy	Other*	Total	% Petroleum and Natural Gas
Alabama	594	420.4	842.8	407.6	238.9	-438.7	2065	49.12
Alaska	276.9	343.9	14.7	0	15.2	0	650.7	95.40
Arizona	555.9	410.3	458.7	305.8	118.8	-296.7	1,552.8	62.22
Arkansas	373.6	238.4	278.8	148.1	121.4	-35.7	1,124.6	54.42
California	3651	2,520.6	63.1	339.5	830	977.3	8,381.5	73.63
Colorado	496.2	508.5	385.4	0	81.7	26.2	1498	67.07
Connecticut	352	169.8	45.2	161.3	39.8	41.7	809.8	64.44
Delaware	124.7	49.8	60.9	0	6.7	53.2	295.3	59.09
Dist. Of Columbia	19	32.8	0.4	0	1.6	126.6	180.4	28.71
Florida	1,759.2	970.2	693.2	335.9	257.4	431.6	4,447.5	61.37
Georgia	1,001.5	436.6	885.8	331.3	208.2	152	3,015.4	47.69
Hawaii	241.2	0.1	20.2	0	22.2	0	283.7	85.05
Idaho	156.3	90.7	8.6	0	126.7	147.1	529.4	46.66
Illinois	1,324.1	1,003.3	1,103.2	994.6	175.8	-512.2	4,088.8	56.92
Indiana	813.7	555.5	1,558.1	0	101.8	-171.7	2,857.4	47.92
Iowa	419.2	292	485.2	55.2	218.3	-55.5	1,414.4	50.28
Kansas	398.5	292.5	371.8	88.8	62	-78	1,135.6	60.85
Kentucky	682.2	233.2	1,024.8	0	67.6	-25	1,982.8	46.17
Louisiana	1,445.9	1,359.8	262.5	160.7	112.7	146	3,487.6	80.45
Maine	206.2	65	5.9	0	182.7	9.5	469.3	57.79
Maryland	519.5	203.2	309.3	153.4	65.9	195.5	1,446.8	49.95
Massachusetts	638.4	382.3	106.9	61.3	66.3	219.7	1,474.9	69.20
Michigan	880.6	797.3	800	329.1	151.2	-39.9	2,918.3	57.50
Minnesota	716.6	410.4	359.4	135.9	179.3	177.5	1,979.1	56.95
Mississippi	426.8	364.2	177.2	98.2	50.3	68.8	1,185.5	66.72
Missouri	695.4	298.1	792.9	98	75.9	-23.3	1937	51.29
Montana	181.3	77.6	203.3	0	123.1	-151	434.3	59.61
Nebraska	221.4	169.4	234.7	99.1	87.2	-29.8	782	49.97
Nevada	264.1	274.9	88.6	0	64.2	58.2	750	71.87
New Hampshire	164.5	73.3	40.2	97.7	41.7	-106.3	311.1	76.44
New Jersey	1,271.7	634.7	97.7	336.5	55.9	240.6	2,637.1	72.29
New Mexico	263.8	250.9	284.3	0	30.2	-136	693.2	74.25
New York	1,524.3	1,204.9	229	451.7	425.4	152.9	3,988.2	68.43
North Carolina	928.4	249.7	794.7	415.8	167.2	146.5	2,702.3	43.60
North Dakota	138.4	60.5	424.6	0	44.4	-227	440.9	45.11
Ohio	1,263.3	823.6	1,438.4	183.1	115.2	163.4	3987	52.34
Oklahoma	558.1	691.2	391.7	0	87.1	-124.8	1,603.3	77.92
Oregon	364	274.7	41.4	0	416.7	7.9	1,104.7	57.82
Pennsylvania	1,346.8	778.3	1,421.1	822.2	140.3	-609.1	3,899.6	54.50
Rhode Island	93.7	91.2	0	0	7.4	27.8	220.1	84.01
South Carolina	545.4	175.9	445.5	541.1	107.8	-156	1,659.7	43.46
South Dakota	113.9	64.6	43.1	0	84	44.6	350.2	50.97
Tennessee	741	238.5	643.8	282.5	145.1	210.2	2,261.1	43.32
Texas	5,433.3	3,656.2	1,605.9	425.7	349.1	81.8	11552	78.68
Utah	286.8	237.4	395.9	0	23.6	-144.4	799.3	65.58
Vermont	79.5	8.7	0	51.2	24.8	-9.7	154.5	57.09
Virginia	915.1	310.7	415.1	292	137.7	443.2	2,513.8	48.76
Washington	786	307.2	94.6	96.9	899.8	-134.2	2,050.3	53.32
West Virginia	268.6	119.7	955.6	0	25.8	-539	830.7	46.74
Wisconsin	580.9	415	480.7	127.1	147.7	111.1	1,862.5	53.47
Wyoming	177.3	147.1	500.1	0	21.6	-304.6	541.5	59.91
Total U.S.	37,280.2	23,785.1	22,384.9	8,427.3	7,351.5	112.4	99,341	61.47

Source: EIA

Note: Totals may not equal sum of components due to independent rounding. Renewable Energy includes conventional hydroelectric power, biomass (wood and biomass waste, fuel ethanol, and losses and co-products from fuel ethanol production), geothermal, solar thermal and photo voltaic, and wind energy. Other* includes Net Interstate Flow of Electricity/Losses and Net Electricity Imports.

INDUSTRY EMPLOYMENT-2008

State	Mining	Refining		Transportation			Wholesale	Retail	Total
	Oil & Gas Extraction	Petroleum Refining	Oils & Greases	Pipelines, Except Gas	Pipeline Construction	Gas Distribution	Petroleum Products	Gasoline Stations	Industry
Alabama	2,099	ND	946	714	1,457	1,747	2,193	18,169	27,325
Alaska	12,969	ND	414	ND	431	274	556	1,705	16,349
Arizona	509	ND	206	263	1,496	ND	1,965	16,798	21,237
Arkansas	6,202	498	509	862	1,544	866	2,157	11,892	24,530
California	20,953	13,498	934	2,953	8,489	1,265	12,764	52,411	113,267
Colorado	23,129	575	62	876	3,657	1,148	2,457	12,675	44,579
Connecticut	28	ND	324	167	339	1,349	5,167	6,140	13,514
Delaware	29	ND	ND	ND	30	ND	789	2,402	3,250
Dist. of Columbia	ND	ND	ND	ND	ND	ND	ND	450	450
Florida	1,155	175	298	239	881	1,836	6,402	37,779	48,765
Georgia	287	63	208	390	1,273	1,755	4,096	27,786	35,858
Hawaii	16	ND	516	ND	85	ND	645	2,574	3,836
Idaho	101	ND	ND	ND	157	ND	820	5,667	6,745
Illinois	2,825	2,971	1,643	1,090	2,414	4,863	5,461	26,378	47,645
Indiana	524	ND	3,433	509	1,572	2,795	3,591	22,249	34,673
Iowa	17	ND	303	360	426	540	1,725	17,654	21,025
Kansas	9,052	1,364	254	795	1,334	1,894	2,219	9,789	26,701
Kentucky	2,494	754	361	993	1,129	788	3,026	18,462	28,007
Louisiana	51,336	9,543	1,331	2,525	17,336	1,633	12,819	17,927	114,450
Maine	18	ND	360	87	78	60	3,956	7,395	11,954
Maryland	677	ND	765	ND	1,203	665	3,292	9,709	16,311
Massachusetts	102	ND	ND	154	269	2,783	6,906	11,469	21,683
Michigan	2,715	502	781	1,055	652	2,930	4,947	24,309	37,891
Minnesota	137	ND	2,122	356	1,107	1,704	2,894	23,212	31,532
Mississippi	4,297	1,967	127	967	3,655	650	2,352	15,304	29,319
Missouri	601	141	360	308	430	3,132	4,027	25,182	34,181
Montana	2,749	1,056	11	396	417	385	969	5,556	11,539
Nebraska	255	ND	22	168	372	1,714	1,236	8,815	12,582
Nevada	199	ND	200	ND	321	ND	770	8,190	9,680
New Hampshire	37	ND	172	ND	16	200	2,821	4,936	8,182
New Jersey	298	2,606	526	315	1,208	3,783	5,693	14,821	29,250
New Mexico	15,982	ND	830	882	2,291	761	1,832	7,963	30,541
New York	1,650	28	431	368	2,579	3,938	13,301	28,262	50,557
North Carolina	643	133	214	157	1,133	2,098	6,470	27,960	38,808
North Dakota	5,184	ND	ND	95	821	ND	1,593	4,031	11,724
Ohio	5,371	1,653	777	1,025	1,791	3,730	5,615	34,163	54,125
Oklahoma	50,158	1,615	466	1,875	2,298	3,824	11,802	13,878	85,916
Oregon	32	ND	404	ND	304	1,259	1,663	10,325	13,987
Pennsylvania	7,062	2,206	2,743	1,968	2,167	3,789	11,238	35,437	66,610
Rhode Island	ND	ND	ND	ND	72	ND	1,097	1,834	3,003
South Carolina	235	20	143	ND	186	888	2,293	17,264	21,029
South Dakota	326	ND	ND	61	30	220	1,203	5,847	7,687
Tennessee	652	ND	1,054	374	579	1,830	3,428	23,753	31,670
Texas	225,096	22,320	826	12,884	31,167	7,223	58,204	68,819	426,539
Utah	6,735	980	16	290	1,001	919	1,018	9,948	21,264
Vermont	17	ND	ND	ND	7	ND	1,591	3,896	5,511
Virginia	1,931	ND	ND	386	1,670	1,405	4,659	32,952	43,003
Washington	319	1,921	92	215	1,201	1,306	3,329	13,673	22,056
West Virginia	5,713	308	609	1,602	1,315	923	993	8,900	20,363
Wisconsin	103	ND	118	294	1,060	775	3,330	23,353	29,033
Wyoming	19,103	995	112	751	5,527	265	996	4,163	31,912
Total U.S.	495,395	75,099	15,227	42,042	110,975	115,860	248,416	844,991	1,948,005

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.



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Data Sources & Notes

The editorial staff gratefully acknowledges the following sources of data that appear on the individual state pages.

Average Production (dry).....	IHS
Average output per producing well.....	IHS
Cumulative production (marketed) & Reserves (dry)	Energy Information Administration
Cumulative wells drilled	IHS & State Data
Cumulative wellhead value.....	Energy Information Administration
Deepest wells drilled.....	IHS & State Data
End-use natural gas prices.....	Energy Information Administration
Federal Leases & Royalties.....	Department of Interior and Minerals Management Service
First and peak production years	AIME Statistical Yearbook, World Oil, Oil & Gas Journal, & World Petroleum Report (Note: Marketed production)
Marginal wells & Abandonments.....	IHS & IOGCC
Mineral lease royalties, bonuses & rent	Department of Interior and Minerals Management Service. Note: Total includes other minerals in addition to oil, ngls and natural gas
Natural gas marketed production	Energy Information Administration
Number of employees	IPAA survey & Bureau of Labor Statistics
Operator	A company or individual who last reported to the state regulatory agency as having control of the operation and management of a producing well or property
Petroleum reserve position.....	Energy Information Administration
Producing wells	IHS & State Data
Rotary drilling rigs.....	Baker Hughes, Inc.
State maps	State data and IHS data for producing entities by county
Severance and production taxes	IPAA survey
Total Production (dry)	IHS and Energy Information Administration (marketed gas production)
Wellhead prices and value	Energy Information Administration and IPAA, State Data
Wells and footage drilled	IHS & State Data

Worldwide rank from BP and World Oil for wells drilled.

Abbreviations

bbl.	= barrel
b/d	= barrels per day
Mcf	= thousand cubic feet
MMcf	= million cubic feet
Bcf	= billion cubic feet
Tcf	= trillion cubic feet
BTU	= British Thermal Unit
NGL	= Natural Gas Liquid
LPG	= Liquefied Petroleum Gases
NA	= Data Not Available
ND	= Not Disclosable

Energy Conversions

One barrel of crude oil:

- = 42 gallons
- = 5,800,000 BTU of energy
- = 5,614 cubic feet of natural gas
- = 0.22 ton of bituminous coal

One cubic foot of natural gas:

- = 7.48 gallons
- = 1,030 BTU of energy
- = 0.000178 barrel of crude oil
- = 0.00004 ton of bituminous coal

One short ton of bituminous coal:

- = 2,000 pounds
- = 26,200,000 BTU of energy
- = 4.52 barrels of crude oil
- = 25,314 cubic feet of natural gas

One metric ton of crude oil:

- = 2,204 pounds
- = 7.46 barrels of domestic crude oil
- = 6.99 barrels of foreign crude oil

One cubic meter of natural gas:

- = 35.314 cubic feet

GLOSSARY

Abandonments - The number of producing wells that have been abandoned during a given time period.

Artificial Lifting - Any method used to stimulate the production of crude oil and/or natural gas in excess of the flow resulting under natural reservoir pressures, e.g. pumping, secondary or tertiary recovery.

Associated Gas - The combined volume of natural gas which occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved).

Barrel - Standard volumetric measure for petroleum, equivalent to 42 U.S. gallons.

Condensate - A mixture of liquid hydrocarbons at atmospheric conditions which occur in a gaseous state underground, sometimes known as distillate or natural gasoline.

Crude Oil - Hydrocarbons in liquid unprocessed form that vary significantly in properties such as API gravity, viscosity, and sulfur content.

Development Well - A crude oil, natural gas or dry hole drilled within an area known to be productive.

Distillate Fuel Oil - One of the petroleum fractions produced by conventional distillate, includes fuel oil and diesel fuel.

Dry Hole - A completed well which is not productive of crude oil and/or natural gas in commercial quantities.

Dry Natural Gas - Natural gas that does not contain dissolved liquid hydrocarbons.

Exploratory Well - A crude oil, natural gas, or dry hole drilled to discover a petroleum formation or its limits.

Gas Well - An exploratory or development well completed for the production of natural gas.

Heavy Oil - A type of high-viscosity crude that may, or may not, naturally flow into a well bore. The limit for heavy oils has been set between 0.1 API gravity and 20.9 API gravity.

Liquefied Petroleum Gas (LPG) - Butane, propane, and other light products separated from natural gasoline or crude oil by fractionation or other processes. At atmospheric pressure, it reverts to the gaseous state.

Marginal Well - A producing well which pumps or "strips" less than 15 barrels of crude oil or 90 Mcf of natural gas per day.

Marginal Well Reserves - The estimated amount of additional crude oil or natural gas which can be recovered by primary means or secondary recovery methods.

Middle Distillates - A general classification of petroleum products that includes distillate fuel oil and kerosene.

Natural Gas - Hydrocarbons in gaseous form or mixed with crude oil.

Natural Gas Liquids (NGL) - Hydrocarbons found with natural gas that are recoverable by condensation or absorption, such as LPG or natural gasoline.

Natural Gas Marketed Production - Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring, nonhydrocarbon gases removed in treating and processing operations, and quantities vented and flared.

Non-associated Gas - Natural gas not in contact with significant quantities of crude oil in a reservoir.

Oil Well - An exploratory or development well completed for the production of crude oil.

Petroleum - Includes in its broadest sense the entire spectrum of hydrocarbons - gaseous, liquid, and solid.

Pipeline - A line of tubes with pumping machinery that transports crude oil or natural gas from the wellhead to the storage tank or petroleum refinery.

Proved Reserves - The estimated quantity of crude oil, natural gas, or NGL that is shown with reasonable certainty to be recoverable from known fields under existing economic and operating conditions.

Residual Fuel Oil - The heavy, high-viscosity leftover from the refining process, used mainly for industrial purposes.

Rotary Drilling Rig - A derrick equipped with modern rotary equipment capable of drilling a bore hole with a bit attached to a rotating column of steel pipe, in contrast to a cable tool rig which drills on the percussion principle.

Seismic Exploration Activity - The search for geological structures which are potential petroleum-bearing formations by interpreting data from seismic shocks.

Severance Tax - A tax levied by some states on each barrel of crude oil or each thousand cubic feet of natural gas produced.

Strategic Petroleum Reserve - Crude oil inventories held in government underground storage for use during periods of supply interruptions.

Stratigraphic Test - A hole drilled to gather information about a stratigraphic formation such as the general permeability and porosity of the rocks; includes core tests.

Well - A hole drilled to find or produce hydrocarbons, or to provide services related to their production.

Wet Natural Gas - Volumes of natural gas remaining after removal of lease condensate, and after exclusion of nonhydrocarbon gases where they occur in sufficient quantity to render the gas unmarketable.

Wildcat Well - A type of exploratory well drilled in an unproven area where there has been no previous production.

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A job in my chosen field: petroleum engineering

Skills

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- *Able to grasp new information quickly*
- *Enthusiastic, motivated, and willing to learn*
- *Committed to becoming a future leader in the petroleum industry*

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