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Image: Operations in the Bakken field - Charging Eagle Project Area of Dunno County, ND. Photo provided by Kodiak Oil and Gas Corporation.

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THE YEAR IN REVIEW: INTRODUCTION TO 2009 O&NG IN YOUR STATE

2009: Reshaping U.S. Oil and Gas Trends as the Economy Rebounds

Pete Stark, Ph.D., IHS CERA

Introduction: The so called "Great Recession" of 2009 slammed energy demand and prices and triggered major adjustments in energy markets and E&P trends. How the industry managed to survive a near collapse of oil and gas prices and a major paradigm shift from natural gas toward oil is the key story for 2009. Real U.S. Gross Domestic Product (GDP) plunged by 6.7 percent in first quarter 2009 but began to recover during the second half of the year and registered an overall decrease of 3.5 percent year over year. Indicators that a recovery from the recession was under way varied throughout the year. After bottoming in first quarter 2009 leading economic indicators like Purchasing Manufacturers Indexes for Manufacturing and industrial materials prices grew through the second and third quarters. Second quarter GDP also registered a healthy turnaround from the 6.7 percent first quarter decline. The stock market and oil prices turned around during March but natural gas prices did not rebound until October. The Baker Hughes active rig count bottomed during June 2009 and increased along with oil directed drilling through the end of the year.

The most severe recession since the end of World War II severely impacted oil and natural gas markets. According to IHS CERA, U.S. natural gas demand dropped by 1.3 percent while North American oil demand dropped by 3.7 percent. Industrial gas demand was setback by three years and gas demand for power generation had to overcome the fear of a return to high prices. But the impact of the recession on oil and gas prices and drilling activity was more precipitous. The average annual West Texas Intermediate (WTI) oil price dropped 33 percent, from \$92.77 during 2008 to \$59.17 during 2009. Average annual Henry Hub natural gas prices, though, plunged by 53 percent from \$7.96 per thousand cubic feet (Mcf) during 2008 to \$3.71 Mcf during 2009. The range of peak to trough prices was even more volatile with both oil and gas prices dropping by more than 70 percent. From a peak of \$130.70 per barrel in June 2008 the WTI oil price fell 73 percent to \$35.93 per barrel by February 2009. A rebound of oil prices after February helped to buoy industry revenues and opportunities through the balance of the year. From a peak of \$12.62 per Mcf in June 2008 natural gas prices plunged by 77 percent to \$2.95 per Mcf by September 2009. The near collapse of natural gas prices resulted in a dramatic decrease in gas drilling. From a robust 32,614 gas well completions during 2008, only 18,375 gas well completions – an almost 44 percent decrease – were recorded during 2009.

The statistics, though, do not tell all of the story. The onset of the recession coincided with a realization that the "shale gale" – with gas plays like the Haynesville, Fayetteville, Woodford and Marcellus – was rapidly boosting average U.S. gas well productivity and thus many fewer new gas wells were required to offset production declines. As a result, U.S. lower 48 states' gas production increased by 506 billion cubic feet (Bcf) during 2009 in spite of the huge decrease in gas well completions. This trend clearly established the "shale gale" as a predominant game-changing paradigm in U.S. gas supplies.

Even more surprising, U.S. oil production also increased during 2009, adding 355,000 barrels per day (b/d). Importantly, this was the first yearly oil production increase in 17 years. The combination of oil production from newly commissioned offshore deepwater Gulf of Mexico fields and the Williston Basin Bakken Shale oil play were the prime contributors to

breaking the long decline in U.S. oil production. This was a significant milestone in demonstrating that innovation and the application of new technologies to non-traditional play types could also make a difference for U.S. oil production. A shift in emphasis from natural gas toward oil became evident during the year but by year-end it was not yet clear if this also signaled a new paradigm for U.S. oil production.

Impacts of the recession presented tough enough challenges to the U.S. oil and gas industry. But industry also had to deal with the major shift in gas markets. For more than a decade the industry had to drill increasing numbers of gas wells from low productivity coalbed methane and tight sand reservoirs just to sustain U.S. gas supplies. Increasing gas prices helped to sustain the drilling of low performing gas wells. But an industry that was geared to drill 32,000 gas wells with \$7.96 per Mcf gas prices during 2008 was confronted with retooling its programs to cope with excess gas supplies and \$3.71 prices during 2009. Many operators prevailed with the help of favorable hedging of their gas production. However, the entire industry faced the reality that high performing shale gas reservoirs had imparted a new paradigm in U.S. gas supplies that would require substantial adjustments. Those adjustments were underway by mid-June 2009 when drilling activity began to shift toward oil directed targets.

E&P Activity: The recession landed a stunning blow to U.S. upstream activity. Many of the decreases in peak to trough upstream statistics mimicked oil and gas price volatility and illustrated the true magnitude of the recession's impact. Drilling activity, as measured by Baker Hughes rig counts, is a good example. The peak count of 2,014 rigs during September 2008 plunged to a low of 876 rigs during June 2009 – a decrease of almost 57 percent compared to the year over year decrease of 42 percent. Gas and oil directed rig counts also characterized the macro shift away from the long-term dominance of gas directed drilling toward oil directed drilling. The peak count of 1,606 gas directed rigs during September 2008 plummeted to only 665 active gas directed rigs (- 59%) by mid-July 2009 before slowly recovering to 773 rigs in mid-December 2009. Vertical wells that were directed toward coalbed methane and marginal tight gas reservoirs took the biggest hit – dropping by 67 percent from 1,017 rigs during August 2008 to only 331 rigs by June 2009. Horizontal rig activity, mostly targeted to highly productive shale gas plays and the expanding Bakken tight oil play in the Williston Basin, also decreased but by a more modest 43 percent from the peak of 650 rigs during October 2008 to 372 rigs in June 2009. Horizontal drilling activity also recovered more rapidly, gaining more than 70 percent of the prior decrease in horizontal drilling activity by year-end.

The significant changes in rig activity also translated – albeit with a time lag – to well completions. As a result of the recession impacts, total 2009 U.S. well completions dropped by almost 40 percent to 33,069 recorded completions. Gas well completions – mostly in tight sand and coalbed methane plays – took the biggest hit dropping 14,809 (- 45%) to 17,847 gas wells. Oil well completions also dropped but by a less severe 35 percent to 11,062 oil wells. Similar patterns were observed with respect to wildcat drilling. Wildcat drilling activity during 2009 decreased by 43 percent to a total of 1,379 wells. Wildcat gas discoveries dropped by 52 percent to 452 wells while oil discoveries decreased by a less acute 30 percent to 308 wells. This general pattern persisted for most active regions but varied substantially for specific plays. Gas completions in the Fayetteville shale play, for instance, actually increased by 12 percent while Kansas gas completions, on the other hand,

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dropped by 72 percent in response to weakening economics in the shallow coalbed methane trend in the southeastern part of the state. Declines in oil completions were less severe in Kansas (-23%), North Louisiana (-24%) and southeast New Mexico (-25%). The rapid recovery of oil prices helped to sustain decent levels of oil drilling during the last half of the year.

E&P Trends: U.S. E&P trends during 2009 were molded by responses to the recession but independents continued to test frontier opportunities while also substantiating their leadership in unconventional gas and oil plays. No significant discoveries were announced in frontier plays but innovative exploration concepts were tested in remote parts of Arizona's Holbrook Basin, the Columbia Basin in Washington, the West Texas Overthrust and Ouachita Fold Belt, the Rio Grande and Pedregosa Basins, the Hardeman and Dalhart Basins and Idaho's Boise Basin. Two significant discoveries were announced, though, in mature provinces: In Kern County, CA, Occidental reported a multi-pay discovery – presumably involving the Monterey Formation – that could yield 150 to 200 million barrels (MMboe) in recoverable gas and liquids. At Keathley Canyon Block 102, BP announced its Tiber discovery, a possible giant field in the deepwater sub-salt Lower Tertiary Trend.

Significant E&P trends can be summarized in four general categories:

- Solidification of the shale gas plays with a shift in emphasis to liquids rich trends
- A shift toward oil drilling with emergence of new tight oil plays
- Continuing success in deepwater Gulf of Mexico with a surge in oil production
- Increasing domination of horizontal wells and associated completion technologies in onshore oil and gas developments.

Shale Gas: The power of the shale gas revolution was clearly solidified during 2009. Even though overall gas well completions decreased by 44 percent, 2009 gas production increased by 506 Bcf. Gas production capacity was boosted by fewer high volume shale gas wells which drove the average gas well initial potential test volume from 800 thousand cubic feet per day (Mcf/d) during 2008 to over 1,100 Mcf/d during 2009. Moreover, operators in the major second generation shale gas plays like the Fayetteville, Woodford, Marcellus and Haynesville announced improving initial potential well tests from horizontal wells throughout the year. Newfield announced tests in excess of 11 million cubic feet per day (MMcf/d) in its Arkoma Basin Woodford play and Range announced tests in excess of 10 MMcf/d in the Marcellus. Questar and Petrohawk announced tests in excess of 25 MMcf/d in the Haynesville. As a result of such outstanding performance, horizontal drilling activity in the Haynesville and Marcellus increased steadily after the first quarter of the year to reach record levels by the end of the year.

Gas production capacity also was enhanced by the emergence of new liquids rich plays which provided a revenue bonus to producers through the higher priced liquids. Marcellus operators increased their investments to develop the liquids rich area in southwestern PA but the Eagle Ford Shale play became the poster child for liquids rich gas plays. During the year Petrohawk substantiated Eagle Ford performance at its Hawkville Field and Eagle Ford production hit 48.7 MMcf/d plus 5,010 barrels liquids per day by December 2009. By year-end several other operators like Pioneer, Anadarko, EnCana, TXCO and Magnum Hunter expanded the play laterally in the liquids rich gas window and up dip into the oil

window. On the southwest flank of the Anadarko Basin horizontal wells were transforming the once lackluster Granite Wash play into a big-time producer. In Wheeler County, TX, Newfield Exploration announced several tests in the Des Moines Granite Wash that yielded more than 20 MMcf/d and 1,000 barrels of condensate per day (bc/d). Chesapeake announced that its Des Moines "Colony Wash" development in Washita County, OK, with initial production tests in excess of 10 MMcf/d and 500 bc/d, generated its highest rate of return.

Tight Oil: Activity in the Bakken Shale oil play in the Williston Basin was curtailed for a few months but recovered along with oil prices. Bakken production grew by 20 million barrels of oil (MMbo) to 63.12 MMbo during 2009. Whiting Oil Company reported record initial production of 4,345 barrels of oil per day (bo/d) with 2.5 MMcf/d at its 11-27 Maki well in the Sanish Field. Health of the play was indicated by the November 2009 North Dakota state lease sale that attracted record bids of \$71.56 million at an average price of \$1,214.50 per acre. The top parcel in Montrail County, ND sold for \$8,000 per acre.

Other shale and tight oil plays emerged during the year. Promising horizontal tests were reported in the Avalon Shale / Bone Spring Formation in southeast New Mexico and in the Mississippi Lime or "chat" on the northern shelf of the Anadarko Basin. The Mississippian play was evolving slowly but Chesapeake's horizontal test of 1,250 bo/d with 1.06 million cubic feet of gas per day (MMcf/d) and 1,392 barrels of water per day (bw/d) in Woods County, OK, sparked interest in the play. Before the end of the year, EOG's 2-01H Jake well, which tested 1,770 bo/d and 367.8 Mcf/d from the Niobrara Formation in northeast Colorado's Denver - Julesburg Basin, seemed to be a catalyst that opened the door for a huge shift in interest towards the shale and tight oil potential in North America.

Deepwater Gulf of Mexico: Deepwater success was highlighted by BP's deepwater Lower Tertiary sub-salt discovery in Keathley Canyon Block 102. With an estimated 3 billion barrels of oil equivalent (Boe) in place the discovery was labeled a possible giant field. At total depth (TD) of 35,055 feet, the well was the deepest discovery to date in the Gulf of Mexico. Anadarko, Newfield, Noble, BP and Mariner Energy also added apparent commercial offshore discoveries during the year. The ramp up of deepwater oil production was a highlight for the Gulf of Mexico. Chevron brought online its deepwater Tahiti Field in the Green Canyon area with a daily production target of 125,000 bo/d and 70 MMcf/d. After a three year delay from hurricane damage, BP also ramped up production from its giant Thunder Horse Field to more than 200,000 boe/d. During 2009, deepwater production increased by 139.5 million bo and 94.5 Bcf gas. Deepwater oil production was the major contributor to the first significant increase in U.S. oil production in 17 years.

Horizontal Drilling Technology: The role of horizontal wells with multi-stage hydraulic fracs in generating economic production from unconventional reservoirs already was well established before 2009. Drilling histories in the major shale gas plays and the Bakken Shale oil play clearly demonstrated that the combination of longer horizontal laterals with an increasing number of shorter frac stages could improve peak well productivity and ultimate recoveries. As a result, horizontal wells became "king of the hill" as part of the dramatic recession imparted changes to the petroleum industry business climate. According to Baker-Hughes data the percentage of horizontal wells accelerated along with realization of the "shale gale" which commenced in 2003. In mid-2003 only seven percent of U.S. wells were drilled horizontally. By mid-2007 the

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percentage of horizontal wells had increased to 21 percent and had more than doubled by the end of 2009 when the percentage reached 48 percent of all wells drilled. An important milestone was realized along the way when for the first time in March 2009, U.S. horizontal drilling activity exceeded vertical drilling activity. This milestone clearly highlighted the critical importance of horizontal drilling technology in delivering a game-changing impact on domestic oil and gas supplies via the “shale gale”.

Production Trends – Natural Gas: U.S. natural gas production reached a peak of 57.4 Bcf/d in February 2009, a 1.1 Bcf/d increase compared to July 2008, and achieved an annual increase of 506 Bcf even though gas well completions decreased by 44 percent. Despite the drop in the annual number of gas completions, a record 444,760 producing gas wells were on stream during 2009. In driving increased on-shore gas production, high productivity shale gas wells also helped to overcome the almost 8 Bcf/d curtailment in gas production from hurricanes Gustav and Ike, which struck the Gulf Coast during September 2008. Marginal gas wells – those that produce 90 Mcf/d or less – extended a long-term trend and increased in number by almost 14 percent to 330,589 wells. Marginal wells also contributed an important 2.9 trillion cubic feet (Tcf) to 2009 production or 14 percent of the U.S. total.

Production Trends – Oil: U.S. crude oil production increased for the first time in 17 years – adding 129.7 MMb, an increase of almost eight percent compared to 2008 and the largest such gain since 1978 when the last surge of oil from the Prudhoe Bay Field entered the Alyeska Pipeline. Deepwater Gulf of Mexico, which added 139.5 MMbo during 2009, was the major source of the increase. North Dakota’s Bakken Shale play added 16.8 MMbo while New Mexico, Utah and Mississippi contributed smaller gains. Marginal oil wells, those that produce 15 barrels of oil per day or less, contributed an important 257.5 MMbo – a little more than 20 percent of overall U.S. 2009 oil production.

Above Ground Considerations: The new administration in Washington, which championed green energy and environmental concerns, raised additional regulatory challenges to the petroleum industry. Proposed legislation included a spectrum of taxes and regulations that would have added substantial financial and management burdens to the industry that already was challenged to deal with low oil and gas prices and weak markets.

The Waxman-Markey “American Clean Energy and Security Act” proposed to establish carbon cap and trade requirements and strict rules to eliminate hedging speculation. This legislation essentially ignored natural gas as part of the clean energy solution. The “Frac Act” proposed by representative DeGette (CO) would require hydraulic frac chemicals to be reported under the Safe Drinking Water Act thus opening the door for expanded Environmental Protection Agency (EPA) controls. The Rahall Bill would add layers to bureaucracy and regulation to leasing on federal lands. The Bureau of Land Management (BLM) already was pressured to tighten considerations of environmental impact statements and public protests regarding federal leases. As a result, only 872 federal lease parcels were approved during 2009 in five key Rocky Mountain states compared to an average of almost 2,000 parcels approved during each of the prior four years. Moreover, the administration also proposed to increase eight petroleum industry taxes that would yield \$32 to \$80 billion in federal taxes over the next ten years.

Thanks in part to the efforts by the IPAA, independents and individual operating companies, none of these proposals passed. It was clear, nevertheless, that the administration embraced the petroleum industry only for its “deep pockets” and new

legislative and regulatory challenges would be forthcoming.

Concluding Comments: Coping with economic recovery and new oil and gas market realities was the prime concern for the petroleum industry during 2009. Several major change issues also commanded attention:

- Rebalancing gas portfolios to prevail in a new low gas price environment and supplies dominated by the prolific shale gas plays.
- Redirecting investments toward oil and liquids rich gas trends to take advantage of high oil prices and a large disparity in British Thermal Unit (BTU) value of oil and gas.
- Understanding how to capitalize on the ability to enhance production of oil and gas liquids in new unconventional and “tight oil” plays with horizontal wells and multi-stage hydraulic fracs.
- Managing the perception of the security, reliability and safety of oil and gas supplies as a means to improve the industry’s position in public policy and regulatory considerations.

At year-end the industry had made significant progress on the technical and strategic issues that it could control but faced significant uncertainties in the energy policy and regulatory debates.

NEW CONTENT FOR OUR 2010-2011 EDITION

With this edition, IPAA continues to focus on the production renaissance that has developed in the shale space across the country in 2009. This publication will showcase the individual states in which American producers are working to find and develop the fuels that comprise approximately two-thirds of our total energy consumption. More than 30 states, and at least as many geologic plays, are fundamentally critical to America's economic, political and national security as independent producers continue to develop new technology that helps them access new reserves and add to domestic production.

Activity in all the individual states adds up to what appears to be a true resurgence in American energy supply with trends being reversed and records being set. It is noteworthy that during the 2008-2009 timeframe, the U.S. reversed its decline in crude oil production for the first time since the 1990-1991 timeframe. States such as North Dakota, featuring the Bakken Shale, and the Federal Offshore played a key role in this sea change. During 2009, the U.S. also set a record in the amount of producing natural gas wells which was helped in large fashion by the "shale gale" that Dr. Philip 'Pete' Stark details so well in his introductory essay "The Year in Review (2009): Reshaping U.S. Oil and Gas Trends as the Economy Rebounds." States such as Pennsylvania and West Virginia, involved in the Marcellus Shale, joined stalwarts such as Texas, Oklahoma, Wyoming and Colorado to help achieve this milestone.

Beyond the direct impact of valuable energy for our homes, schools, companies and vehicles, growing American oil and natural gas production translates directly and indirectly into added American jobs, royalty and tax revenues. These activities reduce more costly imports and generate capital that is being spent at home. Meanwhile, other countries are increasingly becoming more dependent on others for their energy,

and therefore are in direct competition to aggressively develop resources outside their borders. America's own oil and natural gas plays a major role in fueling the U.S. economy, the world's largest, while also providing good jobs and sizeable revenues to federal, state and local economies. The industry helps keep America competitive.

IPAA and IHS continue their joint pursuit of providing more data and analysis of the energy industry which directly pertains to the development of oil and natural gas. IPAA would like to extend continued appreciation to the IHS team which includes Dr. Stark, Dean Williams, Janey Harwell, Elsa Fluss, Randy Peterson and John Wakefield for their wide-ranging contributions and expertise to this publication. IPAA would also like to thank Ron Planting for all of his contributions to this publication.

In addition to IHS assistance with *The Oil and Gas Producing Industry in Your State*, IPAA recently sponsored a study conducted by IHS Global Insight on *The Economic Contribution of the Onshore Independent Oil and Natural Gas Producers to the U.S. Economy* which is available on our website: (www.ipaa.org/news/docs/IHSFinalReport.pdf). This study helps portray the specific contributions being made by independents to our country's employment and revenue base.

If you have ideas for future publications, please 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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Mississippi State Oil and Gas Board
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www.ogb.state.ms.us

Montana

Montana Board of Oil and Gas Conservation
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Oil and Gas Division
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New Mexico Energy, Minerals and Natural Resources Department
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Oregon Department of Geology and Mineral Industries

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www.oregongeology.org

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Pennsylvania Department of Environmental Protection

Oil and Gas Division
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Tennessee Department of Geology and Conservation

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Utah Department of Natural Resources

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Virginia Department of Mines, Minerals and Energy

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West Virginia

West Virginia Office of Oil & Gas

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Wyoming

Wyoming Department of Environmental Quality

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Wyoming Oil and Gas Conservation Commission

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Environmental Protection Agency

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hsmith@midland.edu
www.midland.edu/~ppdc

Panola College

Department of Applied Sciences
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(903) 693-1130
ghughes@panola.edu
www.panola.edu/industrial/petroleum

Texas A&M - Kingsville
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www.engineer.tamuk.edu/
departments/ngen

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Steve Holditch, Program Assistant
(979) 845-1488
betty@pe.tamu.edu
www.pe.tamu.edu

Texas Tech University
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Engineering
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george.asquith@ttu.edu
www.depts.ttu.edu/pe

Texas Tech University
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for Energy Commerce
Terry McInturff, Program Director
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ec.ba.ttu.edu

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Department of Chemical and
Biomolecular Engineering
Ramanan Krishnamoorti, Ph.D,
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www.che.uh.edu

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Downtown**
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Margaret Shipley, PhD, Coordinator
(713) 221-8571
avenf@uhd.edu
www.uhd.edu/academic/colleges/
business/Assets/pdf/minors/
EMMinor.pdf

**University of Texas - Austin
Kilgore College**
Department of Petroleum and
Geosystems Engineering
Tad Patzek, Chair
(512) 471-3161
gpope@mail.utexas.edu
www.pge.utexas.edu/index.cfm

West Virginia

Glenville State College
Department of Land Resources
Rick Sypolt, Department Chair
(304) 462-4135
Charles.Sypolt@glenville.edu
www.glenville.edu/landresources_
department.asp

West Virginia University
College of Engineering and Mineral
Resources
Professor Sam Ameri, Chair
(304) 293-7682
samuel.ameri@mail.wvu.edu
www.pnge.cemr.wvu.edu/welcome

Wyoming

**Western Wyoming Community
College**
Oil and Gas Technology
Paul Johnson, Division Chair
(307) 382-1784
pjohnson@wwcc.wy.edu
www.wwcc.wy.edu/academics/
oilgastech

**University of Wyoming - College
of Engineering and Applied
Science**
Department of Chemical and
Petroleum Engineering
Dave Bagley, Department Head and
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(307) 766-2500
bagley@uwyo.edu
www.eng.uwyo.edu/chemical

CANADA

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Haskayne School of Business
Bob Schulz, Program Director
(403) 220-6591
bob.schulz@haskayne.ucalgary.ca
www.haskayne.ucalgary.ca/
undergrad/plma

YOUNG PROFESSIONALS IN ENERGY

YOUNG PROFESSIONALS IN ENERGY CHAPTERS
Founded in 2005, YPE is a global network of young professionals who seek to engage with peers in the energy industry.
www.ypenergy.org

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Director - Kari Brutsaert
 (415) 971-1366
kbrutsaert@firstsolar.com

Bay Area

Director - Aaron Platshon
 (650) 248-7656
aaron.platshon@betterplace.com

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 (303) 296-1624
heinlejohn@hotmail.com

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Director - Parker Heikes
 (303) 864-7343
pheikes@bokf.com

Louisiana

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Director - Kevin Lorenzen
 (318) 703-9263
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Director - Sergei Kurilov
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svkurilov@tnk-bp.com

ADDITIONAL ENERGY EDUCATION & EMPLOYMENT RESOURCES

Alaska

Alaska BLM - Campbell Creek Science Center
500 SCIENCE CENTER DR
ANCHORAGE AK 99507-2599
(907) 267-1247
www.blm.gov/ak/st/en/prog/sciencecenter.html

California

Energy Quest - California Energy Commission
1516 9TH ST MS-29
SACRAMENTO CA 95814
(916) 654-4989
www.energyquest.ca.gov

Western States Petroleum Assoc. (WSPA)
1415 L ST STE 600
SACRAMENTO CA 95814
(916) 498-7750
www.wspa.org

Colorado

Colorado School of Mines
Energy and Minerals Field Institute
Golden, CO 80401
(303) 279-5265
www.emfi.mines.edu/index.html

DC

Energy Kids
US Department of Energy
1000 INDEPENDENCE AVE
WASHINGTON DC 20585
(202) 586-8800
www.eia.gov/kids

Federal Energy Regulatory Commission Students' Corner
(202) 502-8004
customer@ferc.gov
www.ferc.gov/students

Louisiana

LSU Center for Energy Studies
Energy, Coast and Environment Building
NICHOLSON DRIVE EXTENSION
BATON ROUGE LA 70803
(225) 578-4400
www.enrg.lsu.edu

Montana

Northern Montana Independent O&G Assoc.
PO BOX 488
CUT BANK MT 59427
(406) 873-9000

Ohio

Environmental Education Council of Ohio
PO BOX 1004
LANCASTER, OH 43130
(330) 322-3953 Office
(740) 653-2649 Cell
www.eeco-online.org

Ohio Energy Project (OEP)
200 E WILSON BRIDGE RD
STE 320
WORTHINGTON OH 43085
(614) 785-1717
www.ohioenergy.org

Ohio O&G Energy Education Program (OOGEEP)
1718 COLUMBUS RD SW
PO BOX 187
GRANVILLE OH 43023-0535
(740) 587-0410
www.oogeep.org

Oklahoma

Assoc. of Desk and Derrick Clubs
5153 E 51ST ST STE 107
TULSA OK 74135
(918) 622-1749
adotulsa@swbell.net
www.addc.org

Oklahoma Commission on Marginally Producing O&G Wells
421 NW 13TH ST STE 180
OKLAHOMA CITY OK 73103
(800) 390-0460
www.ok.gov/marginalwells

Oklahoma Energy Resources Board (OERB)
3555 NW 58TH ST STE 430
OKLAHOMA CITY OK 73112
(405) 942-5323
(800) 664-1301
info@oerb.com
www.oerb.com

University of Oklahoma, Sarkeys Energy Center
100 EAST BOYD ROOM 1510
NORMAN OK 73019
(405) 325-3821
www.ou.edu/mcee.html

Texas

East Texas Historical Assoc.
PO BOX 6223 SFA STATION
NACOGDOCHES TX 75962
www.easttexashistorical.org

Offshore Energy Center (OEC) - Ocean Star Museum
200 N DAIRY ASHFORD STE 6220
HOUSTON TX 77079
(281) 679-8040
oec@oceanstaroec.com
www.oceanstaroec.com

Virginia

National Energy Education Development Project (NEED)
8408 KAO CIRCLE
MANASSAS VA 20110
(703) 257-0037
www.need.org

Wisconsin

Wisconsin K-12 Energy Education Program (KEEP)
403 LRC, UWSP
STEVENS POINT WI 54481
(715) 346-4770
www.uwsp.edu/cnr/wcee/keep

Wyoming

Wyoming State Historical Society
PO BOX 247
WHEATLAND WY 82201
(307) 322-4237
www.wyshs.org

CANADA

BP - A+ for Energy
240 4TH AVE SW
CALGARY AB T2P 2H8 CANADA
www.aplusforenergy.org

OIL AND GAS MUSEUMS

Alabama

Choctaw County Historical Museum
40 MELVIN RD
GILBERTOWN AL 26908
www.ohwy.com/al/c/choccoh.htm

Arkansas

Arkansas Museum of Natural Resources
3583 SMACKOVER HWY
SMACKOVER AR 71762
(870) 725-2877
www.amnr.org

Arkansas Museum of Science and History
500 PRESIDENT CLINTON AVE
STE 150
LITTLE ROCK AR 72201
(501) 396-7050
www.amod.org

California

Brea Museum and Heritage Center
495 S BREA BLVD
BREA CA 92821
(714) 256-2283
www.breamuseum.org

California Oil Museum
PO BOX 48
1001 E MAIN ST
SANTA PAULA CA 93061
(805) 933-0076
www.oilmuseum.net

Hathaway Ranch and Oil Museum
11901 FLORENCE AVE
SANTA FE SPRINGS CA 90670
(562) 777-3444
www.hathaworld.com

Kern County Museum
3801 CHESTER AVE
BAKERSFIELD CA 93301
(661) 852-5000
www.kcmuseum.org

Olinda Historic Museum & Park
(714) 671-4447
www.ci.brea.ca.us

Santa Barbara Maritime Museum
113 HARBOR WAY STE 190
SANTA BARBARA CA 93109
(805) 962-8404
www.sbmuseum.org

West Kern County Museum
PO BOX 491
TAFT CA 93268
(661) 765-6664
www.westkern-oilmuseum.org

Colorado

Museum of Nature and Science
2001 Colorado Blvd
Denver, CO 80205
(303) 370-6000
www.dmns.org

Illinois

Illinois Oilfield Museum
OBLONG IL 62449
www.theonlyoblong.com/oil_field/oblong_oilfield.html

Museum of Science and Industry
57TH ST AND LAKE SHORE DR
CHICAGO IL 60637
(773) 684-1414
www.msichicago.org

Wabash County Museum
320 N MARKET ST
MT CARMEL IL 62863
(618) 262-8774
www.museum.wabash.il.us

Wood River Refinery Museum
PO BOX 76
ROXANNA IL 62084-0076
(618) 255-3718
www.wrrhm.org

Indiana

Red Crown Mini-Museum
6TH AND SOUTH ST
LAFAYETTE IN 47901
www.oldgas.com/info/redcrown.htm

Trump's Texaco Museum
BREWER AND WASHINGTON ST
KNIGHTSTOWN IN 46148
(765) 345-7135
www.indymotorspeedway.com/museums

Kansas

Hill City Oil Museum
103 E CHERRY ST
HILL CITY KS
(785) 421-2543
www.grahamhistorical.ruraltel.net/oil/oil.html

Independence Historical Museum and Art Center
123 N 8TH ST
PO BOX 294
INDEPENDENCE KS 67301
(620) 331-3515
independencehistoricalmuseum.org

Kansas Oil Museum and Hall of Fame
383 E CENTRAL AVE
ELDORADO KS 67042
(316) 321-9333
www.kansasoilmuseum.org

Norman #1 Museum & RV Park
106 S 1ST
NEODESHA KS 66757
(620) 325-5316
www.neodesha.com/DocumentView.aspx?DID=46

Oil Patch Museum
I-70 AND US 281
RUSSELL KS
(785) 483-3637

Stevens County Gas and Historical Museum

905 S ADAMS
HUGOTON KS 67951
(620) 544-8751
skyways.lib.ks.us/towns/Hugoton/museum.html

Louisiana

International Petroleum Museum and Exposition
PO BOX 1988
MORGAN CITY LA 70381
(985) 384-3744
www.rigmuseum.com

Louisiana State Oil and Gas Museum
200 S LAND AVE
OIL CITY LA 71061
(318) 995-6845
www.sos.louisiana.gov/tabid/242

Michigan

Henry Ford Museum
20900 OAKWOOD BLVD
DEARBORN MI 48124-4088
(313) 982-6001
www.hfmgv.org/museum

New Mexico

Farmington Museum
3041 E MAIN
FARMINGTON NM 87401
(505) 599-1174
www.farmingtonmuseum.org

New York

Pioneer Oil Museum
PO BOX 332
BOLIVAR NY 14715
(585) 373-6035
www.pioneer-oil-museum.com

Ohio

Allen County Museum and Historical Society
620 W MARKET ST
LIMA OH 45801
(419) 222-9426
www.allencountymuseum.org

County Line Historical Society
281 N MARKET ST
BOX 614
SHREVE OH 44616
(330) 567-2501
www.shreveohio.com/clhs

Hancock Historical Museum
422 W SANDUSKY ST
FINDLAY OH 45840
(419) 423-4433
www.hancockhistoricalmuseum.org

OIL AND GAS MUSEUMS

Wood County Historical Center and Museum

13660 COUNTY HOME RD
BOWLING GREEN OH 43402
(419) 352-0967
www.woodcountyhistory.org

Oklahoma

Ames Astrobleme Museum

AMES OK
www.amescrater.com/about.htm

Anadarko Basin Museum of Natural History

204 N MAIN ST
ELK CITY OK 73644
(580) 243-0441

Bartlesville Area History Museum

(918) 338-4290
www.bartlesvillehistory.com

Cherokee Strip Regional Heritage Center

507 S 4TH ST
ENID OK 73701
(580) 237-1907
www.csrhc.org

Conoco Museum

501 W SOUTH AVE
PONCA CITY OK 74610
(580) 765-8687
www.conocomuseum.com

Drumright Community Historical Museum

301 E BROADWAY
DRUMRIGHT OK 74030
(918) 352-3002
www.drumrighthistoricalsociety.org

Frank Phillips Home

1107 CHEROKE AVE
BARTLESVILLE OK 74003
(918) 336-2491
www.frankphillipshome.org

Greater Southwest Historical Museum

35 SUNSET DR
ARDMORE OK 73401
(580) 226-3857
www.gshm.org

Healdton Oil Museum

315 E MAIN ST
HEALDTON OK 73438-1836
(580) 229-0900
www.okhistory.org/outreach/affiliates/healdtonoil.html

Nowata County Historical Museum

121 S PINE
NOWATA OK 74048
(918) 273-1191
www.ohwy.com/ok/y/nowhimu.htm

Oklahoma Historical Society

800 NAZIH ZUHDI DR
OKLAHOMA CITY OK 73105
(405) 521-2491
www.okhistory.org

Oklahoma Oil Museum

1800 HWY 9 W
SEMINOLE OK 74868
(405) 382-1500
www.seminoleoklahoma.com/museum

Phillips Petroleum Company Museum

410 KEELER
BARTLESVILLE OK 74004
(918) 661-8687
www.phillips66museum.com

Sam Noble Museum of Natural History

2401 CHAUTAUQUA AVE
NORMAN OK 73072-7029
(405) 325-4712
www.snornh.ou.edu

Stephens County Historical Museum

160 N ALEXANDER ST
TOCCOA GA 30577
(706) 282-5055
www.toccoahistory.com

Tulsa Historical Society

2445 S PEORIA
TULSA OK 74114
(918) 712-9484
www.tulsaohistory.org/learn/earlytulsa/oil

Woolaroc Museum

1925 WOOLAROC RANCH RD
BARTLESVILLE OK 74003
336-0307 x10
www.woolaroc.org

Pennsylvania

Barbara Morgan Harvey Center for the Study of Oil Heritage

web.mac.com/wreese1/HCSBuild/
Harvey_Center_Web_Site/Home.
html

Coolspring Power Museum

179 COOLSPRING RD
COOLSPRING PA 15730
(814) 849-6883
www.coolspringpowermuseum.org

Drake Well Museum

202 MUSEUM LN
TITUSVILLE PA 16354
(814) 827-2797
www.drakewell.org

Oil Region National Heritage Area

217 ELM ST
OIL CITY PA 16301-1412
(814) 677-3152
www.oilregion.org

Penn-Brad Oil Museum

(814) 368-5574
www.pennbradoilmuseum.com

Petroleum History Institute

PO BOX 165
OIL CITY PA 16301-0165
www.petroleumhistory.org

Pumping Jack Museum

PO BOX 25
EMLENTON PA 16373
(724) 867-0030
www.pumpingjack.org

Simpler Times Museum

111 SIMPLER TIMES LN
TIDIOUTE PA 16351
(814) 484-3483
www.simplertimesmuseum.com

Venango Museum of Art, Science and Industry

270 SENECA ST
OIL CITY PA 16301
(814) 676-2007
www.venangomuseum.org

Texas

Bob Bullock Texas State History Museum

PO BOX 12874
AUSTIN TX 78711
(866) 369-7108
www.thestoryoftexas.com

Central Texas Oil Patch Museum

421 E DAVIS ST
LULING TX 78648
(830) 875-1922
www.oilmuseum.org

Depot Museum

514 N HIGH ST
HENDERSON TX 75652
(903) 657-4303
www.depotmuseum.com

East Texas Oil Museum

HWY 259 AND ROSS ST
KILGORE TX 75662
(903) 983-8295
www.easttexasoilmuseum.com

Fort Worth Museum of Science and History

1600 GENDY ST
FORT WORTH TX 76107
(817) 255-9300
www.fwmuseum.org

Gaston Museum

6558 HWY 64 W
PO BOX 301
JOINERVILLE TX 75658
(903) 847-2205
www.gastonmuseum.org

OIL AND GAS MUSEUMS

Heritage Museum of Montgomery County
PO BOX 2262
CONROE TX 77305-2262
(936) 539-6873
www.heritagemuseum.us

Houston Museum of Natural Science
5555 HERMANN PARK DR
HOUSTON TX 77030
(713) 639-4629
www.hmns.org

Hutchinson County Historical Museum
618 N MAIN
BORGER TX 79007
www.hutchinsoncountymuseum.org

London Museum and Tea Room
690 S MAIN
NEW LONDON TX 75682
(903) 895-4602

Million Barrel Museum
400 MUSEUM BLVD
MONAHANS TX 79756
www.monahans.org/chamber/node/207

Museum of the Plains
1200 N MAIN
PERRYTON TX 79070
(806) 435-6400
www.museumofthepains.com

Panhandle-Plains Historical Museum
2503 4TH AVE
CANYON TX 79015
(806) 651-2250
www.panhandleplains.org

Permian Basin Petroleum Museum
1500 W INTERSTATE 20
MIDLAND TX 79701
(432) 683-4403
www.petroleummuseum.org

Ranger Historical Preservation Society
PO BOX 320
RANGER TX 76470-0320
(254) 647-5353
www.txbusiness.com/rhps

Spindletop-Gladys City Boomtown Museum
PO BOX 10070
HWY 69 AND UNIVERSITY DR
Beaumont, TX 77710
(409) 835-0823
www.spindletop.org

Square House Museum
PO BOX 276
PANHANDLE TX 79068
(806) 537-3524
www.squarehousemuseum.org

Texas Energy Museum
600 MAIN ST
BEAUMONT TX 77701
(409) 833-5100
www.texasenergymuseum.org

Van Area Oil and Historical Museum
PO BOX 55
VAN TX 75790
(903) 963-5051
www.vantexas.com/history.html

W. K. Gordon Center for Industrial History
PO BOX 218
MINGUS TX 76463
(254) 968-1886
www.tarleton.edu/gordoncenter

West Virginia

West Virginia Oil and Gas Museum
PO BOX 1685
119 THIRD ST
PARKERSBURG WV 26101
(304) 485-5446
www.oilandgasmuseum.com

Wyoming

Hot Springs County Museum and Cultural Center
700 BROADWAY
THERMOPOLIS WY 82443
(307) 864-5183
www.hschistory.org

Salt Creek Oil Museum
531 PEAKE ST
MIDWEST WY 82643
(307) 437-6633
www.wyomingtourism.org/overview/saltcreekoilmuseum/4155

Tate Geological Museum
125 COLLEGE DR
CASPER WY 82601-4699
(307) 268-2447
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	California	3	Pennsylvania	3	Alaska	3	Wyoming
4	Kansas	4	West Virginia	4	California	4	Oklahoma
5	Ohio	5	Ohio	5	North Dakota	5	Louisiana
6	Louisiana	6	Louisiana	6	Louisiana	6	Colorado
7	Illinois	7	Wyoming	7	Oklahoma	7	New Mexico
8	Pennsylvania	8	Colorado	8	New Mexico	8	Arkansas
9	New Mexico	9	New Mexico	9	Wyoming	9	Utah
10	Wyoming	10	Kansas	10	Kansas	10	Alaska
11	Kentucky	11	Federal Offshore	11	Colorado	11	Kansas
12	Federal Offshore	12	Kentucky	12	Montana	12	California
13	West Virginia	13	Michigan	13	Mississippi	13	Pennsylvania
14	New York	14	Montana	14	Utah	14	West Virginia
15	Michigan	15	New York	15	Illinois	15	Alabama
16	Montana	16	Arkansas	16	Alabama	16	Michigan
17	Arkansas	17	Alabama	17	Michigan	17	Virginia
18	Colorado	18	Utah	18	Ohio	18	Kentucky
19	North Dakota	19	Virginia	19	Arkansas	19	Montana
20	Mississippi	20	California	20	Pennsylvania	20	Ohio
21	Utah	21	Mississippi	21	Kentucky	21	Mississippi
22	Indiana	22	Tennessee	22	Nebraska	22	North Dakota
23	Nebraska	23	Indiana	23	West Virginia	23	New York
24	Alaska	24	Illinois	24	Indiana	24	Tennessee
25	Tennessee	25	Nebraska	25	South Dakota	25	Indiana
26	Alabama	26	Alaska	26	Florida	26	Nebraska
27	Missouri	27	North Dakota	27	Nevada	27	South Dakota
28	South Dakota	28	South Dakota	28	New York	28	Illinois
29	Florida	29	Maryland	29	Tennessee	29	Oregon
30	Virginia	30	Missouri	30	Missouri	30	Arizona
31	Nevada	31	Oregon	31	Arizona	31	Florida
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	FOS Gulf	7, 3	28.1222
2	Alaska	At Large	13.4495
3	California	20, 22	8.7436
4	Texas	11	6.5824
5	New Mexico	2	3.1263
6	Texas	19	2.6788
7	Louisiana	3	1.4635
8	Wyoming	At Large	1.1783
9	FOS PAC	California	1.0167
10	Texas	23	1.0121
11	Utah	2	0.7055
12	Oklahoma	3	0.5764
13	Oklahoma	4	0.4907
14	Kansas	1	0.3951
15	Texas	1	0.3745
16	Montana	At Large	0.3442
17	Texas	13	0.3383
18	Texas	15	0.2946
19	North Dakota	At Large	0.2803
20	Colorado	3	0.2669
21	Louisiana	4	0.2059
22	Texas	14	0.1814
23	Louisiana	7	0.1666
24	Colorado	4	0.1019
25	Texas	25	0.0985
26	Texas	22	0.0876
27	Texas	2, 8	0.0822
28	Texas	28	0.0782
29	Texas	29, 18, 7, 9	0.0739
30	Texas	17	0.0722
31	Texas	27	0.0568
32	Texas	2	0.0511
33	Texas	8	0.0473
34	New Mexico	3	0.0456
35	Alabama	1	0.0416
36	Michigan	1	0.0370
37	Texas	6	0.0344
38	Louisiana	5	0.0266
39	Texas	12	0.0243
40	Oklahoma	2	0.0209
41	Texas	5	0.0162
42	Texas	7, 3	0.0110
43	Texas	23, 28	0.0066
44	Texas	17, 6	0.0049
45	Texas	26	0.0047
46	Mississippi	3	0.0039
47	Texas	11, 23	0.0009
48	Mississippi	2, 3	0.0006

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	11.7692
2	Colorado	3	6.1112
3	New Mexico	3	4.5898
4	Texas	17	4.4608
5	Texas	1	4.4350
6	Oklahoma	3	4.1920
7	Louisiana	4	3.0591
8	Texas	12, 26, 24, 6	2.7030
9	Oklahoma	2	2.6381
10	Texas	13	2.5672
11	Texas	15	2.2904
12	Texas	23	1.9347
13	Texas	6	1.8389
14	Utah	2	1.8370
15	Texas	12	1.6153
16	Arkansas	2	1.4904
17	Texas	28	1.4524
18	Louisiana	3	1.2821
19	New Mexico	2	1.1982
20	Mississippi	3	1.1811
21	Colorado	4	1.1714
22	Texas	26	1.1607
23	Texas	11	1.1144
24	Kansas	1	1.0934
25	Texas	25	1.0355
26	Texas	23, 28	0.9982
27	Louisiana	5	0.9180
28	Alaska	At Large	0.7360
29	Texas	27	0.6615
30	Texas	14	0.6476
31	Louisiana	7	0.5841
32	Virginia	9	0.5335
33	Alabama	1	0.5284
34	Oklahoma	4	0.5010
35	Texas	17, 6	0.5007
36	Michigan	1	0.4697
37	Texas	2	0.4371
38	Alabama	6, 7	0.3837
39	Texas	11, 23	0.3414
40	Arkansas	3	0.3197
41	Texas	8	0.2809
42	Arkansas	4	0.2537
43	Texas	2, 8	0.1668
44	Texas	29, 18, 7, 9	0.1211
45	Texas	5	0.1090
46	West Virginia	3	0.1009
47	Montana	At Large	0.0900
48	Mississippi	2, 3	0.0825
49	Texas	22	0.0754
50	Texas	19	0.0717

Source: IPAA and IHS.

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

Be Part of the New IPAA Grassroots Initiative

What is the RIG Program?

IPAA's RIG Program is a new grassroots initiative intended to maximize the independent producer's voice regarding national energy policy. This will be a campaign based on volunteers, and is designed to further enhance our ongoing Government Relations efforts that will focus on increased involvement in the political process by IPAA members.

By increasing our visibility and establishing sustained, one-to-one relationships between IPAA members and their elected officials, we will be able to further the education of policymakers while encouraging balanced energy policy that promotes American production of oil and natural gas.



What do I have to do?

Small tasks can have a larger impact than may first be evident. That is why the RIG Program is volunteer-based and asks only that you participate in activities that you can. For example – attending a Representative's townhall meeting, signing up for email alerts from your Representative, etc.

How does the RIG Program work?

As a volunteer of the RIG Program, you will receive an informational packet on the Member of Congress that represents the district you live in or work in. Included in the packet are suggested steps to get started that will help you along the way. There are no additional costs to participate in the program; all that is needed is a commitment to do your part to encourage balanced energy policy that promotes American production of oil and natural gas.

How do I get started?

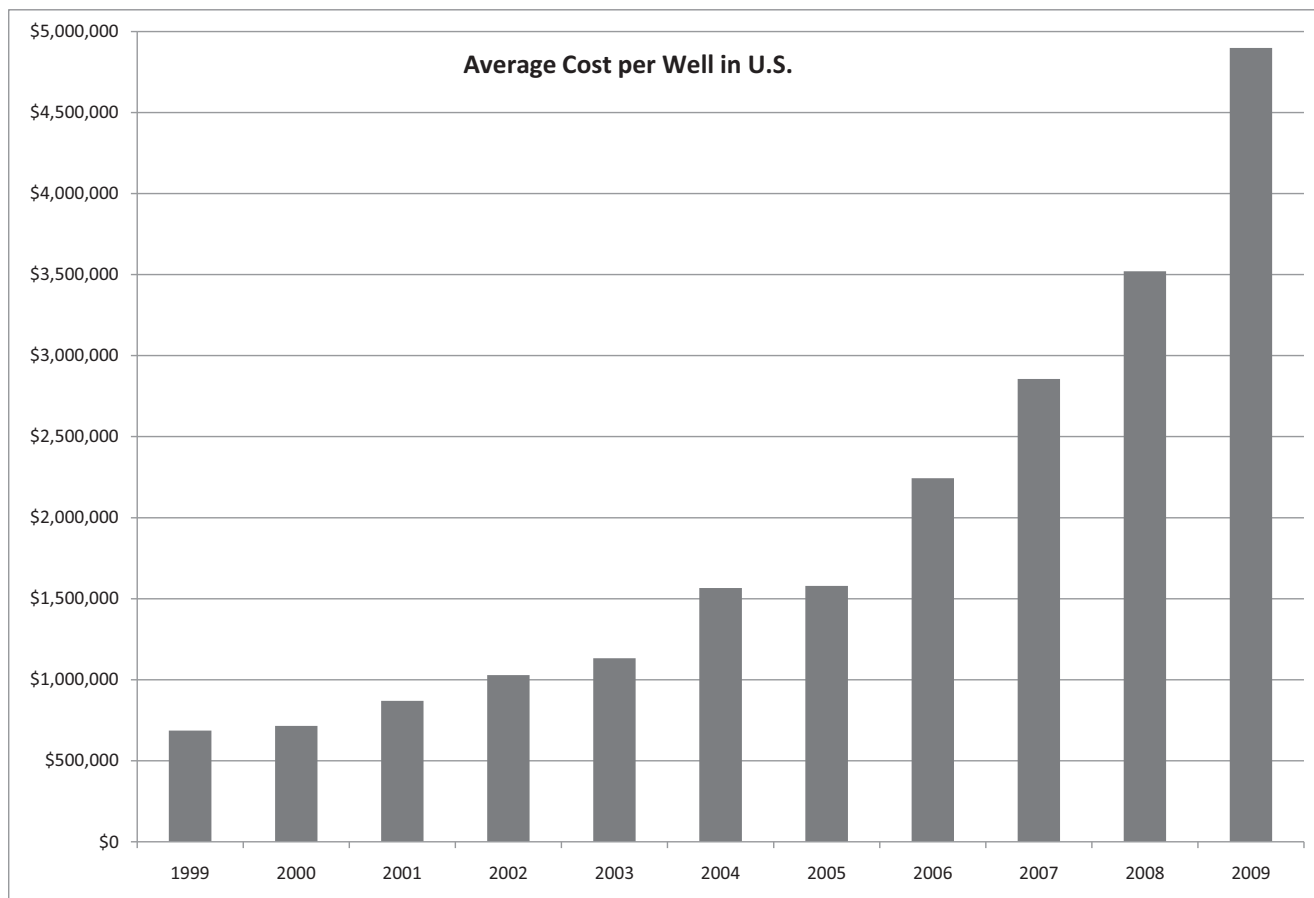
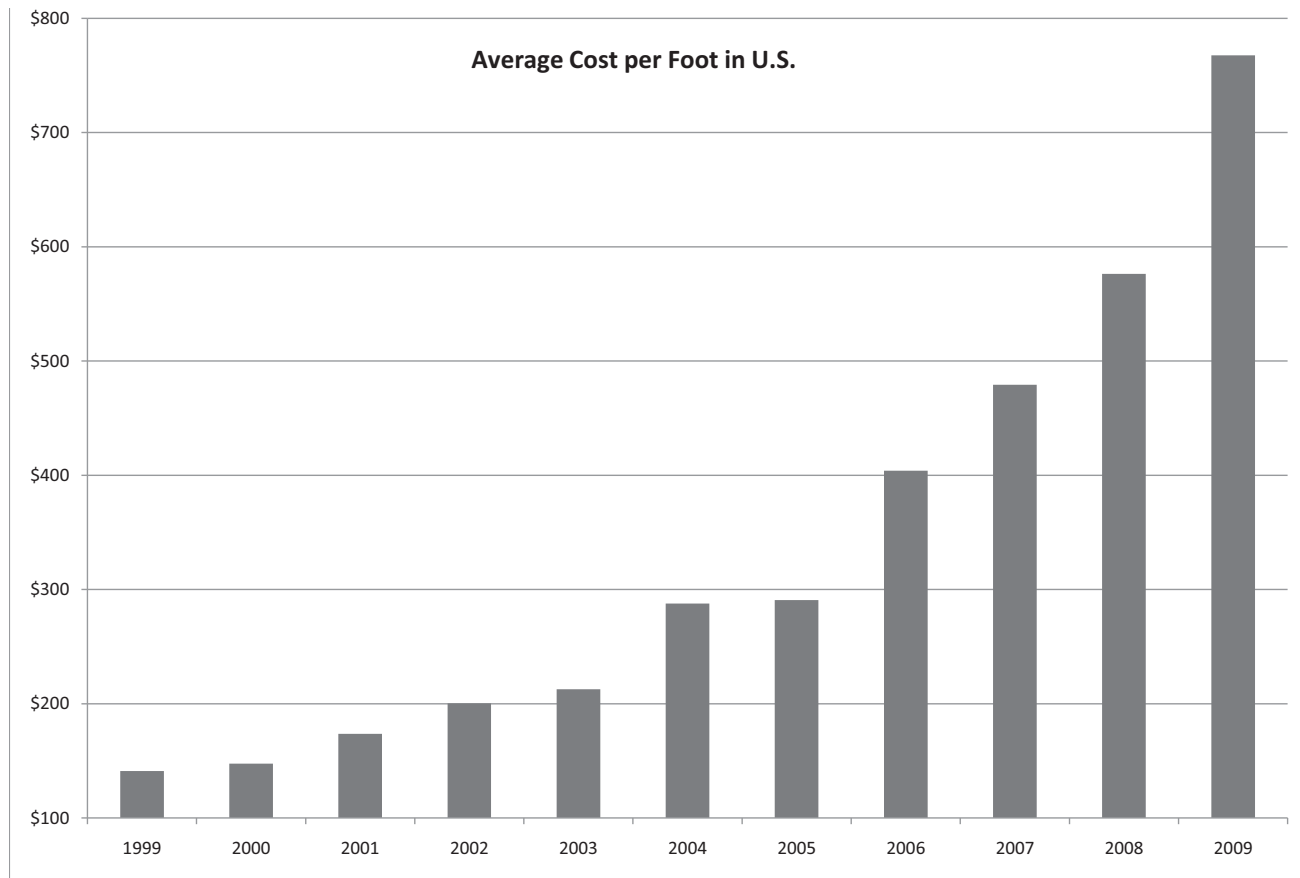
Visit www.ipaa.org/rig to find more information and to sign up. After you sign up, you will receive an email with all the necessary and simple instructions for getting started.

Questions about the RIG Program?

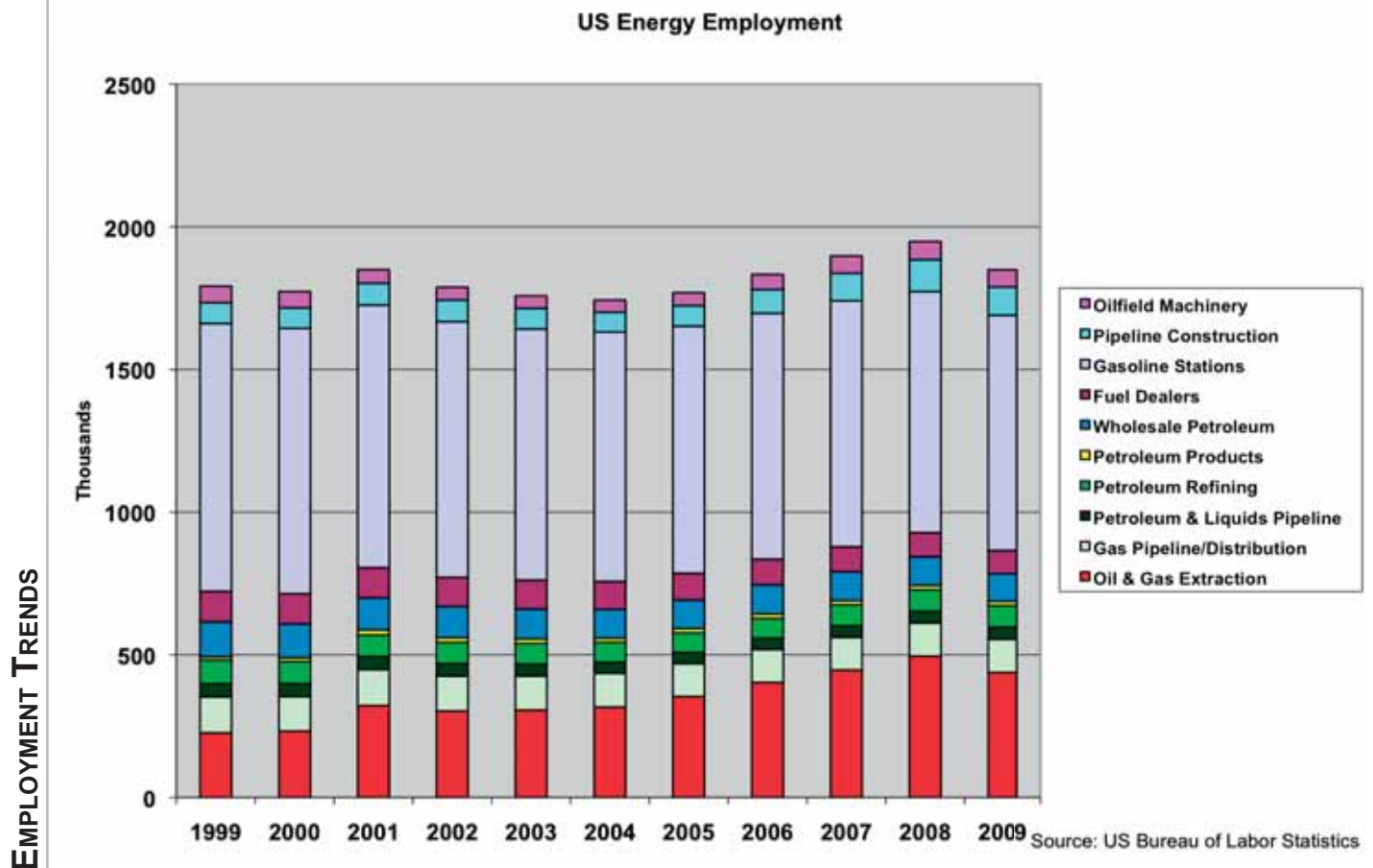
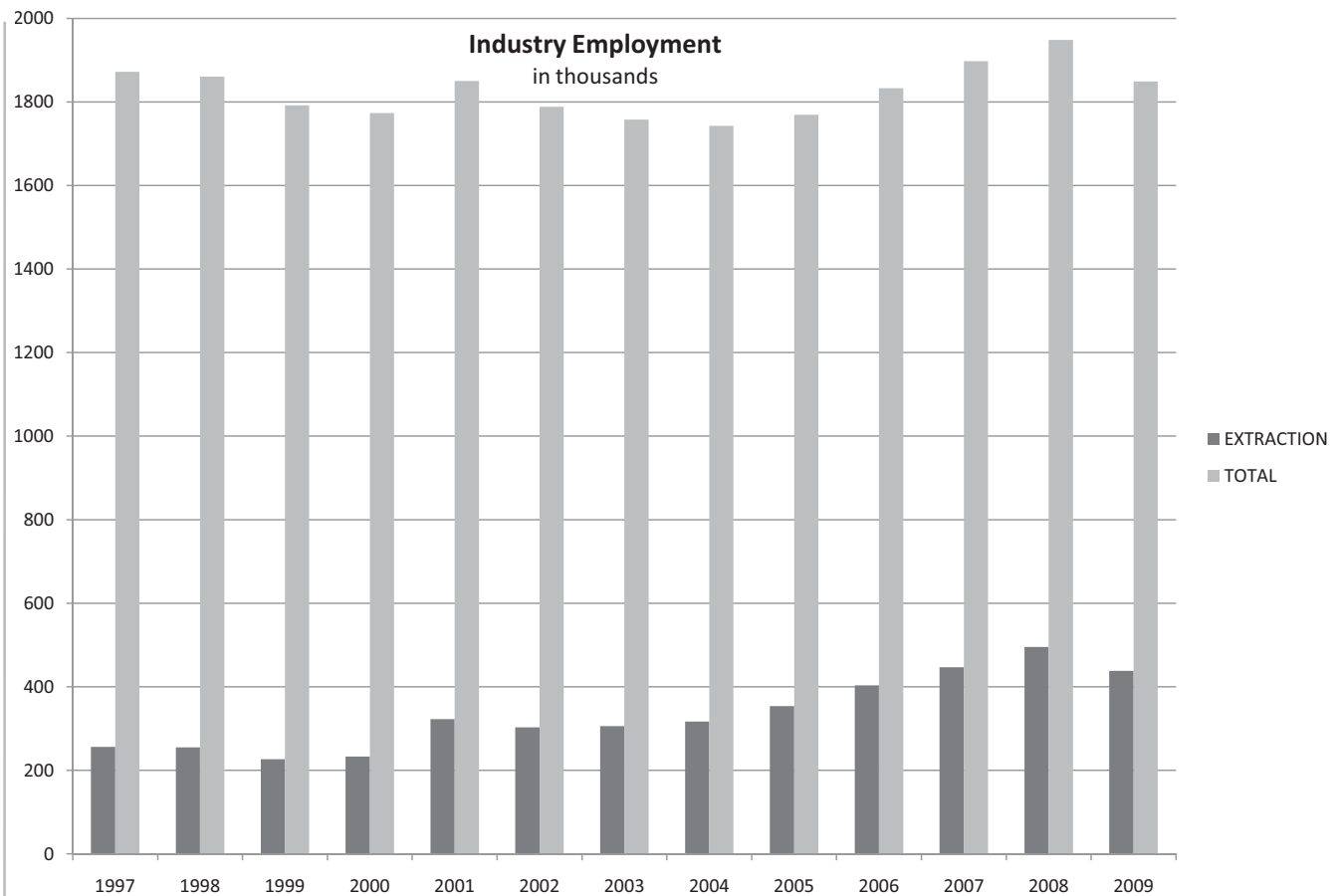
Please contact Kristen Lingley at (202) 857-4722

Email to rigprogram@ipaa.org

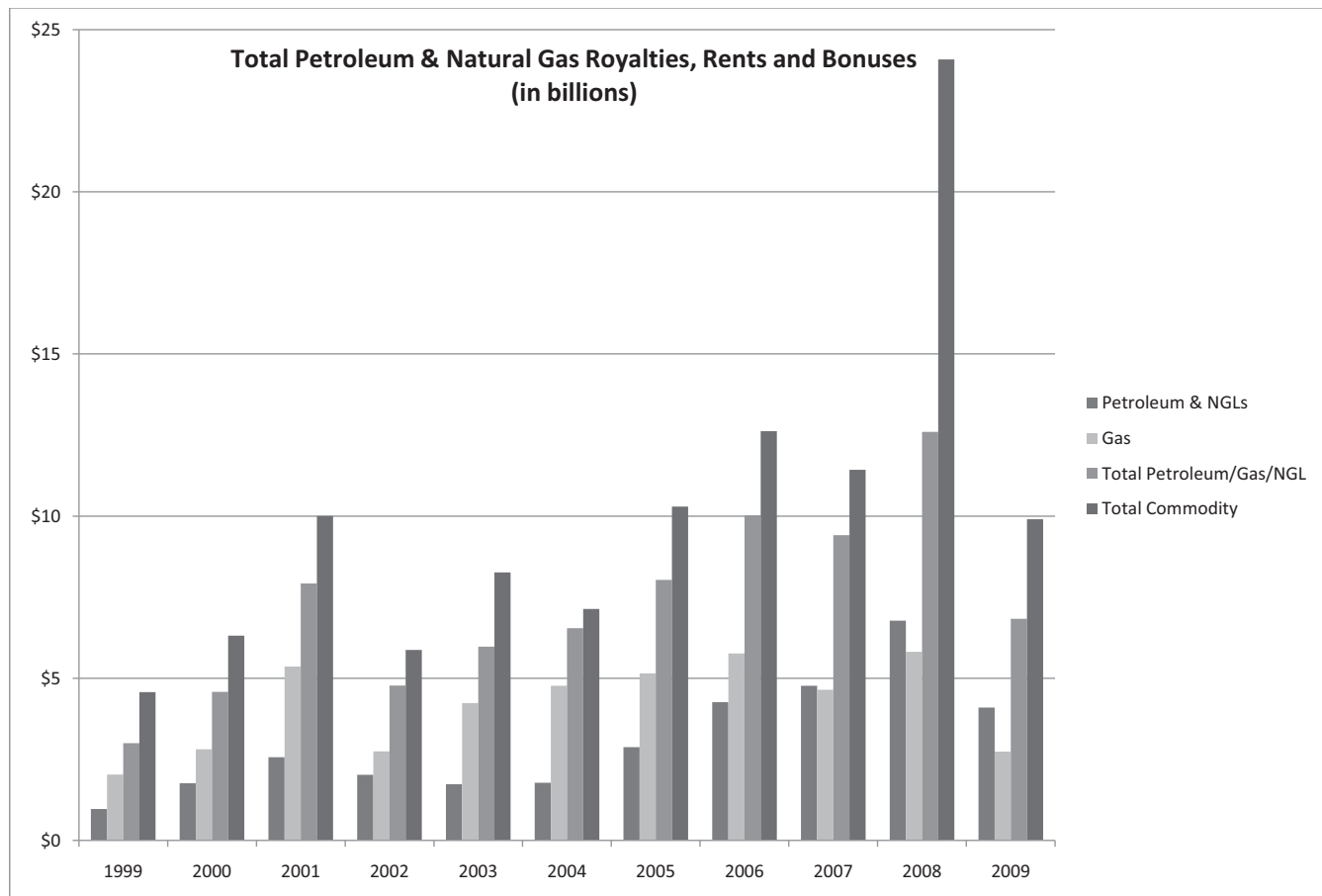
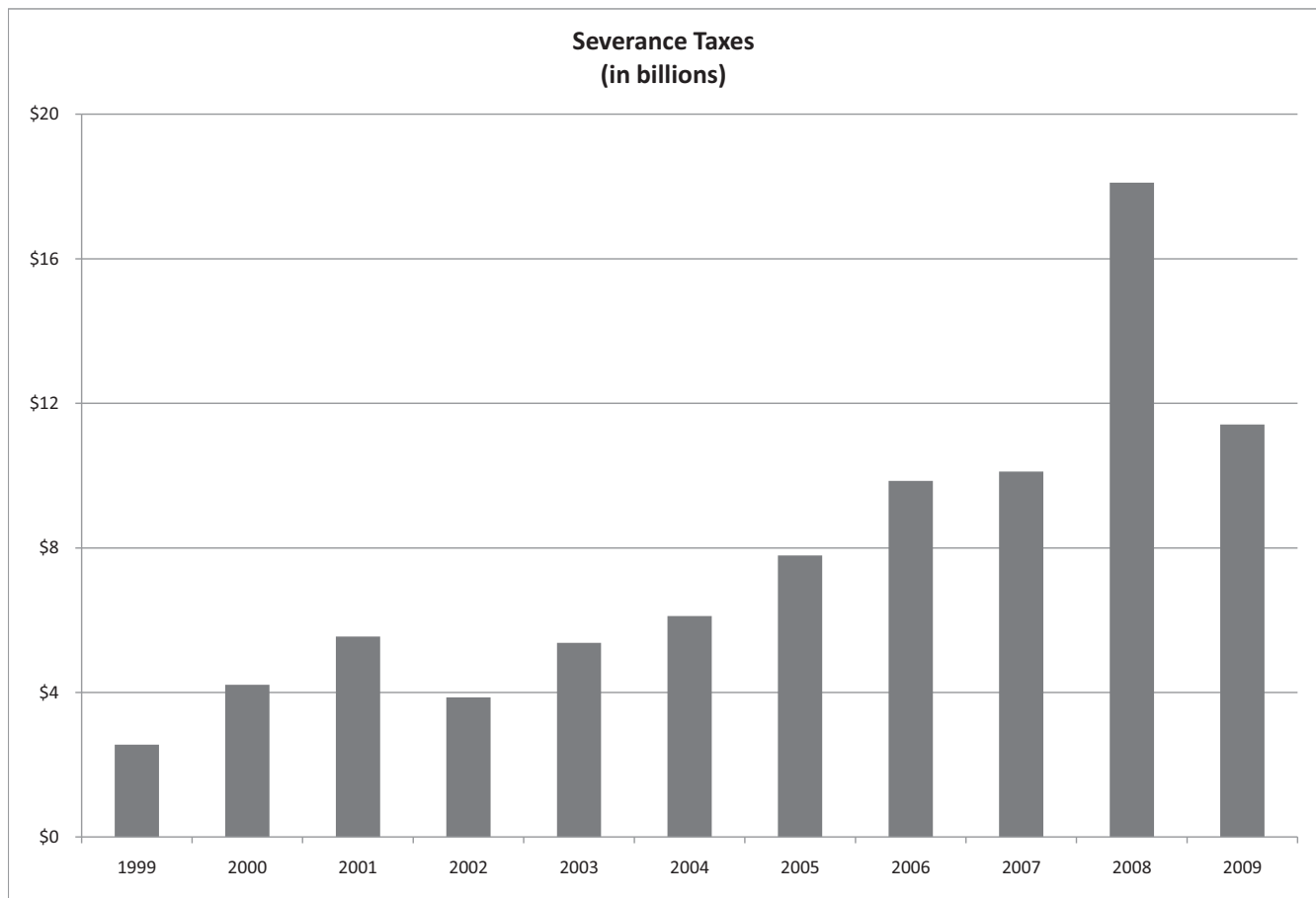
Or visit www.ipaa.org/rig



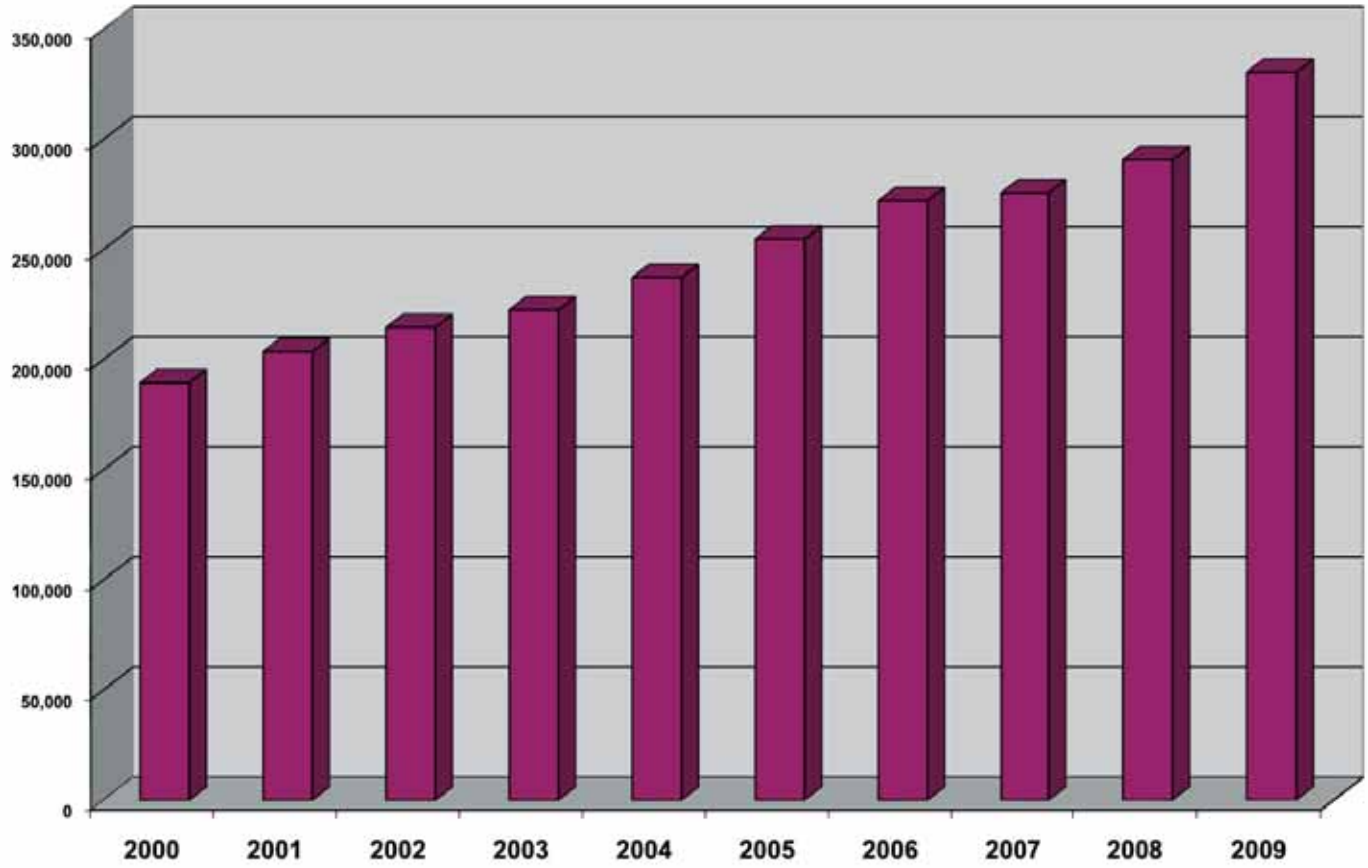
Source: IHS.



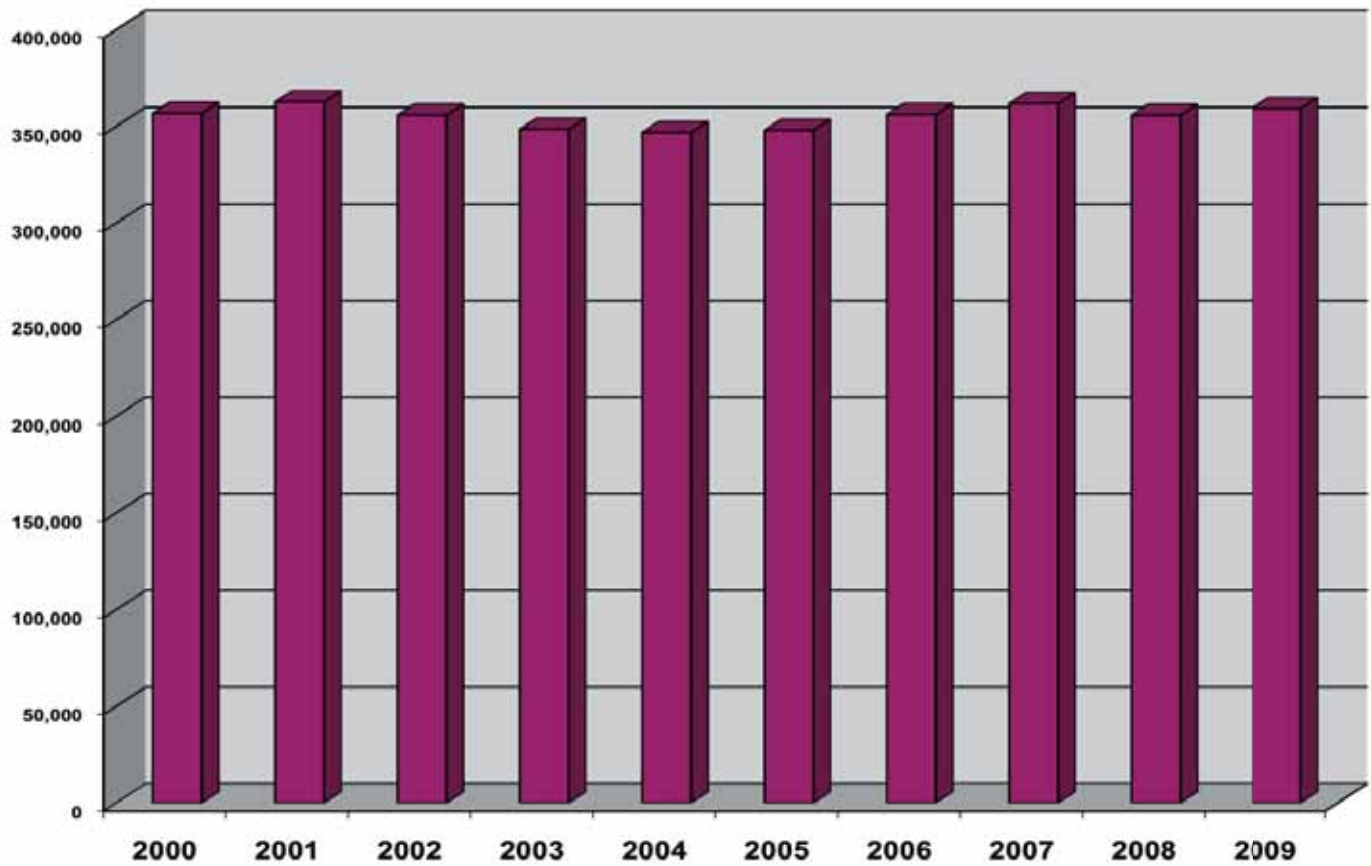
EMPLOYMENT TRENDS



Marginal Natural Gas Wells



Marginal Oil Wells



MARGINAL WELLS IN THE US

CRUDE OIL SUMMARY

Year	Production			Imports	Supply		Exports	Demand		Crude Reserves		Price
	Crude Oil	NGL	Total	Total	Other	Total		Domestic	Total	Proved Reserves	New Reserves	Oil Wellhead
					(thous. b/d)					(mill. bbls.)		(\$/bbl.)
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
2009	5,361	1,910	7,271	11,691	1,833	20,795	2,024	18,771	20,795	20,682	3,312	56.35

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
	Marketed	Dry	Loss		Other*	Total			Proved Reserves	New Reserves	
				(Bcf)							Gas Wellhead (\$/Mcf.)
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	21,112	20,159	953	3,984	2,465	27,571	963	23,268	244,656	27,453	7.97
2009	21,604	20,580	1,024	3,751	1,824	27,227	1,072	22,840	272,509	27,853	3.67

Sources: Energy Information Administration.
Note: Reserves estimated as of December 31 each year.

DRILLING SUMMARY

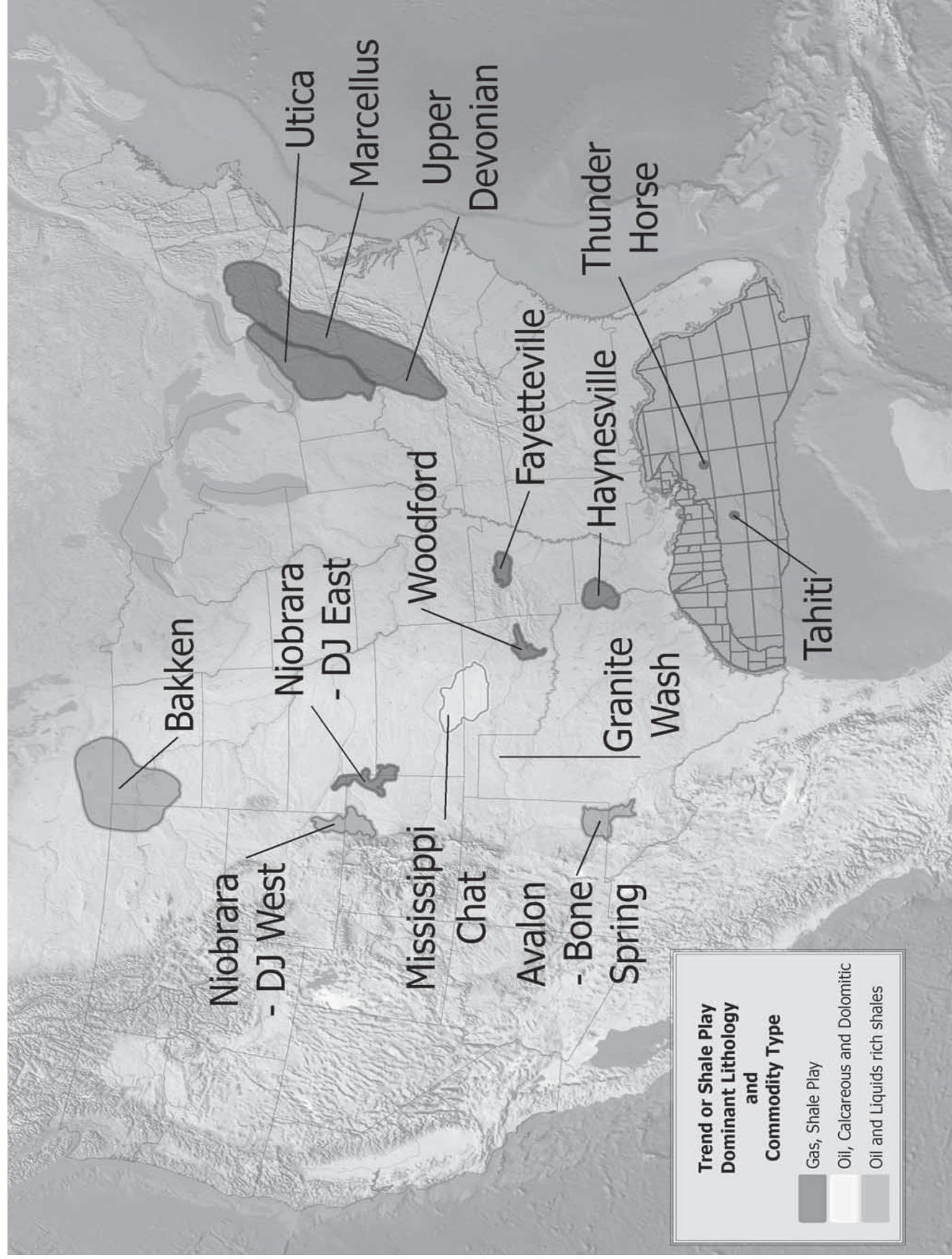
Year	Seismic Crews Rotary Rigs		Exploratory Wells			Total Well Completions				Footage	
	Working	Active	New-Field Wildcats	Total Exploratory	Oil Wells	Gas Wells	Dry Wells	Service Holes	Total Wells	Total Drilled (mill. ft.)	
1961	4,557	1,760	6,909	10,992	21,101	5,664	17,106	3,091	46,962	192.1	
1962	3,915	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	5,247	10,230	9,522	8,468	672	27,988	134.5	
1990	1,493	1,010	2,685	5,150	12,445	11,126	8,496	802	32,067	156.2	
1991	1,251	862	2,195	4,511	12,542	9,768	7,476	1,070	29,786	145.1	
1992	847	721	1,762	3,467	9,379	8,149	5,857	989	23,385	120.2	
1993	952	755	1,683	3,482	8,828	9,829	6,093	716	24,750	133.8	
1994	1,087	775	1,613	3,622	7,334	9,358	5,092	669	21,784	125.0	
1995	1,253	723	1,605	3,152	8,248	8,082	4,814	885	21,144	117.4	
1996	1,307	779	1,676	3,021	8,836	9,027	4,890	791	22,753	126.6	
1997	1,336	943	1,757	3,166	11,206	11,498	5,874	1,017	28,578	161.7	
1998	1,566	827	1,478	2,483	7,682	11,639	4,761	838	24,082	137.6	
1999	1,125	625	1,244	1,924	4,805	12,027	3,550	478	20,382	103.1	
2000	63*	918	1,506	2,286	8,090	17,051	4,146	930	29,287	144.6	
2001	61	1,156	1,779	3,142	8,888	22,072	4,598	786	35,558	180.3	
2002	54	830	1,455	2,384	6,775	17,342	3,754	747	27,871	145.4	
2003	40	1,032	1,723	2,644	8,129	20,722	3,982	815	32,833	177.6	
2004	43	1,192	2,036	3,404	8,789	24,186	4,082	1,447	37,057	204.8	
2005	52	1,381	2,260	4,136	10,779	28,584	4,653	1,596	44,016	240.9	
2006	55	1,649	2,552	4,623	13,224	32,760	5,138	1,946	51,122	282.3	
2007	63	1,769	2,565	5,187	13,341	32,852	4,940	2,062	51,133	303.2	
2008	76	1,880	2,409	4,974	16,791	33,339	5,220	2,358	55,350	345.8	
2009	75	1,086	1,391	3,065	11,610	19,054	3,748	2,374	34,412	229.4	

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 www.eia.doe.gov/emeu/mer/pdf/pages/sec5_5.pdf.

EMERGING SHALE PLAYS (2009)

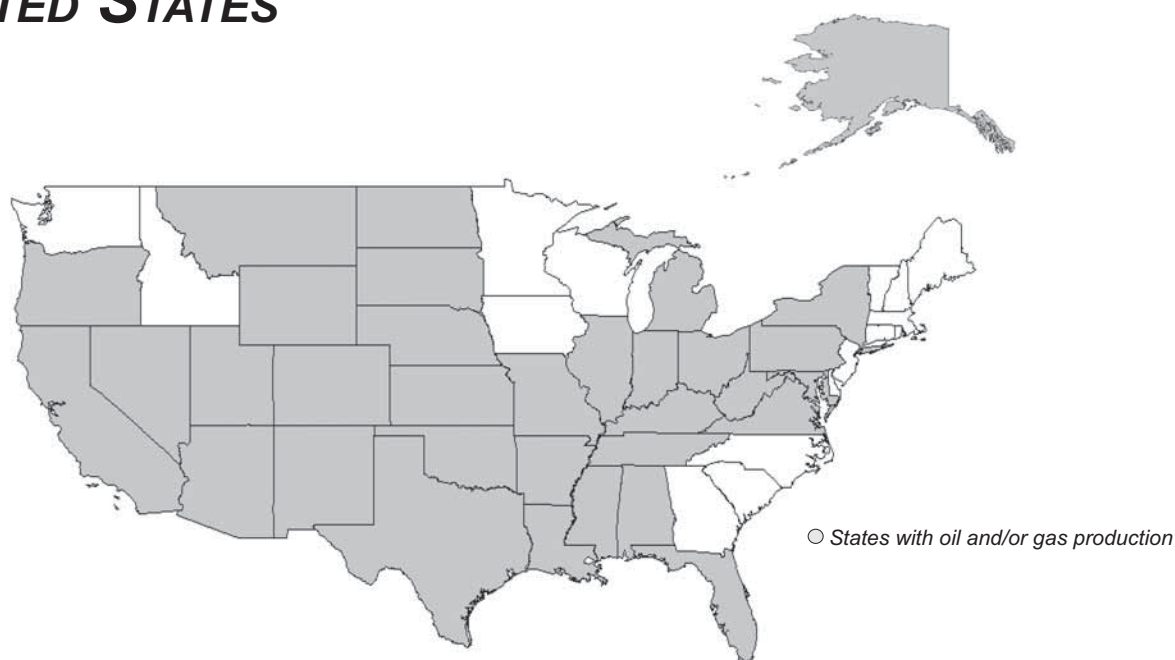


2009 KEY TRENDS FOR SHALE PLAYS

Oil Plays (Bbl)				
	Permits	Production	Top Operator (# of wells)	
Bakken	578	60,956,513	EOG RESOURCES INC	(205)
Bone Spring	253	4,993,160	EOG RESOURCES INC	(123)
Mississippian	19	11,578,549	EOG RESOURCES INC	(23)
Mississippian Lime	19	1,515,039	CHESAPEAKE OPERG INC	(32)
Niobrara	181	1,088,672	NOBLE ENERGY INC	(399)
Gas Plays (Mmcf)				
	Permits	Production	Top Operator (# of wells)	
Barnett	1694	1,777,283,741	DEVON ENERGY PROD CO	(3789)
Fayetteville	826	514,067,287	SEECO INCORPORATED	(1180)
Haynesville/Bossier	749/192	821,043,209	ENCANA OIL AND GAS USA INC	(263)
Marcellus	2335	125,260,157	CHESAPEAKE APPALACHIA LLC	(137)
Woodford	305	346,051,175	NEWFIELD EXP MID-CONTINENT INC	(363)
Gas & Liquid Plays (Oil in Bbl, Gas in Mmcf)				
	Permits	Production	Top Operator (# of wells)	
Eagle Ford	145	383,901 (Oil)	APACHE CORP	(22 Oil)
		383,901 (Oil)	PETROHAWK OPERATING CO	
		17,399,123 (Gas)	PETROHAWK OPERATING CO	(22 Gas)
Granite Wash	272	4,240,122 (Oil)	SANGUINE GAS EXPLORATION LLC	(29 Oil)
		301,495,676 (Gas)	CHESAPEAKE OPERATING CO	(317 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)	35,950
------------	--------

Cumulative number of total wells drilled

as of 12/31/09 (excluding service wells)

Oil wells	1,721,606	48%
Gas wells	828,547	23%
Dry holes	1,046,256	29%
Total	3,596,462	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$) \$2,408,798,355

Cumulative production & new reserves

as of 12/31/09

	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

(2009)

Crude oil (\$/bbl.)	\$56.35
Natural gas (\$/Mcf)	\$ 3.67

Wellhead value of production

(2009, in thous. \$)

Crude oil	\$110,254,185
Natural gas	\$ 79,287,260
Total	\$189,541,445

Average natural gas price

(2009, \$/Mcf)

Residential consumers	\$12.14
Commercial consumers	\$10.06
Industrial consumers	\$ 5.33
Electric utilities	\$ 4.93
City Gate	\$ 6.46

Severance taxes paid

(2009, in thous. \$) \$11,414,101

Top 10 producing counties/fields

(2009 on a BOE basis)

County	State	% US Prod
Mississippi Canyon	FOS	4.82
Sublette	WY	3.87
Beechey Point	AK	3.48
Green Canyon	FOS	3.09
Kern	CA	3.01
Garfield	CO	1.89
Johnson	TX	1.81
San Juan	NM	1.78
Tarrant	TX	1.78
La Plata	CO	1.38

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	626	10,667	11,293
Gas	1,188	16,987	18,175
Dry	989	2,272	3,261
Total	2,803	29,926	32,729

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	4,443.7	51,552.1	55,995.8
Gas	8,126.6	128,575.7	136,702.3
Dry	5,433.4	10,764.3	16,197.7
Total	18,003.8	190,892.0	208,895.8

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

New-field wildcats drilled	1,343
Footage (thous. ft.)	9,366.4

Average rotary rigs active	1,086
----------------------------	-------

Permits	47,656
---------	--------

Worldwide rank

	Crude Oil	Natural Gas
Wells drilled	1st	1st
Production	3rd	1st
Reserves (2009)*	12th	6th

Number of operators	17,703
---------------------	--------

Number of producing wells

(12/31/09)

Crude oil	405,865
Natural gas	444,760
Total	850,625

Average production

Crude oil (thous. b/d)	4,818.1
NGL (thous. b/d)	511
Natural gas (MMcf/d)	55,569

Total production

Crude oil (YTD bbls, in thous.)	1,758,591
Natural gas (YTD MMcf)	20,282,801

Natural gas marketed production

(MMcf)	21,604,158
--------	------------

Average output per producing well

Crude oil (bbls.)	4,333
Natural gas (Mcf)	45,604

Coalbed methane (YTD MMcf)

Oil Wells	25
Gas Wells	46,514
Daily Average (MMcf) / Well	397,680.1

Heavy oil (YTD bbls, in thous.)

Wells	63,311
Av. bbls per day	1,133.9
Av. bbls per well	3,107

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

* Canadian oil sands included

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	3,312	1,093	4,405
Production	1,751	892	2,643
Net annual change	1,561	579	2,140
Proved reserves	20,682	10,190	30,872

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserve	6,916	44,465	49,447
Production	2,556	19,981	21,594
Net annual change	4,360	24,484	27,853
Proved reserves	33,383	250,496	272,509

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	642	3,181,990	35,934,209
Gas	810	6,090,495	110,694,743
Dry	846	4,202,195	13,703,359

Marginal oil wells

Producing marginal wells	359,193
Crude oil production in bbls. (thous.)	357,497
Crude oil production b/d (thous.)	979

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	330,589
Natural gas production (MMcf)	2,908,750

Mineral lease royalties, bonuses & rent

Oil	\$ 4,096,043,736
Gas	\$ 2,737,482,363
Total Royalties	\$ 9,904,629,524

Horizontal wells drilled	6,724
--------------------------	-------

Average number of employees

Oil and natural gas extraction	438,076
Refining	90,263
Transportation	159,070
Wholesale	178,567
Retail	824,261
Pipeline construction	98,501
Oilfield machinery	60,360
Total petroleum industry	1,849,098

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 (2009)	35,950

Cumulative number of total wells drilled

as of 12/31/09 (excluding service wells)

Oil wells	21,853	32%
Gas wells	27,225	40%
Dry holes	18,930	28%
Total	68,008	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$) \$400,194,758

Cumulative production & new reserves

as of 12/31/09

	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

(2009)

Crude oil (\$/bbl.)	\$58.05
Natural gas (\$/Mcf)	\$ 3.67

Wellhead value of production

(2009, in thous. \$)

Crude oil	\$34,301,861
Natural gas	\$ 9,121,165
Total	\$43,423,026

Federal Revenues

(2009, in thousands \$)

Bonuses and other revenues	\$ 1,184,001.1
Rents	\$ 233,146.7
Royalties	\$ 4,402,530.3
Total	\$ 5,819,678.1

Top 10 producing fields

(2009 on a BOE basis)

Field	% Production	
	State	US
Mississippi Canyon	28.71	4.82
Green Canyon	18.44	3.09
Garden Banks	4.21	0.71
Viosca Knoll	4.02	0.67
Atwater Valley	2.89	0.49
Eugene Island	2.60	0.44
South Timbalier	2.52	0.42
West Cameron	2.51	0.42
South Marsh Island	2.47	0.41
Main Pass	2.20	0.37

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	6	96	102
Gas	6	76	82
Dry	75	81	156
Total	87	253	340

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	45.7	1,055.2	1,100.9
Gas	27.9	761.7	789.6
Dry	1,047.2	483.3	1,530.5
Total	1,120.8	2,300.3	3,421.0

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

New-field wildcats drilled	74
Footage (thous. ft.)	934.34

Average rotary rigs active	45
----------------------------	----

Permits	724
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	12th	11th
Production	1st	2nd
Reserves (2009)	2nd	7th

Number of producing wells

(12/31/09)

Crude oil	3,289
Natural gas	2,756
Total	6,045

Average production

Crude oil (thous. b/d)	1,488.8
NGL (est.)	133.5
Natural gas (MMcf/day)	5,244.5

Total production

Crude oil (YTD bbls, in thous.)	543,395
Natural gas (YTD MMcf)	1,914,239

Natural gas marketed production

(MMcf)	2,485,331
--------	-----------

Average output per producing well

Crude oil (bbls.)	165,216
Natural gas (Mcf)	694,571

Producing well depth

	Oil Wells	Gas Wells
Shelf (wd <1,000 ft)	2,744	2,612
Deep (wd 1,000-4,999 ft)	477	111
Ultra Deep (wd >5,000 ft)	68	33
Total	3,289	2,756

Number of operators*	118
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Producing oil**	107
Producing natural gas**	115

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

*Number of Operators -- IHS

**Producing Oil and Natural Gas --BOEMRE

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	777	30	807
Production	551	109	660
Net annual change	226	-79	147
Proved reserves	4,129	530	4,659

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	776	626	1,383
Production	659	1,779	2,377
Net annual change	117	-1,153	-944
Proved reserves	5,223	7,633	12,552

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	6,957	75,091,602	7,659,343
Gas	7,993	76,963,400	6,310,999
Dry	7,368	72,289,488	11,277,160

2009 Lease Statistics

G&G permits	47
Platform installations	29
Platform removals	221
Platform in place	3,570

Lease characteristics

Existing leases	
<200 meters of water	3,353
200-400 meters of water	114
401-900 meters of water	102
>900 meters of water	156

Oil & natural gas fields

Producing	789
Non-producing	503

Mineral lease royalties, bonuses & rent

Oil	\$3,199,862,771
Gas	\$1,290,806,313
Total Royalties	\$5,819,678,113

From 1996 to 2009, the gas

production in the Mississippi Canyon Block 0807 field has gone from 6.5 million MCFs to just over 79 million. The field was discovered in 1989 and continues to be the top producing field.

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
------	--------

Cumulative number of total wells drilled as of 12/31/09 (excluding service wells)

Oil wells	1,424	9%
Gas wells	8,988	59%
Dry holes	4,739	31%
Total	15,151	100%

Cumulative crude oil wellhead value as of 12/31/09 (thous. \$)

\$12,767,999

Cumulative production & new reserves as of 12/31/09

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

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$55.25
Natural gas (\$/Mcf)	\$ 4.32

Wellhead value of production (2009, in thous. \$)

Crude oil	\$ 397,192
Natural gas	\$1,019,645
Total	\$1,416,837

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$18.12
Commercial consumers	\$14.93
Industrial consumers	\$ 6.48
Electric utilities	\$ 4.30
City Gate	\$ 7.67

Severance taxes paid (2009 in thous. \$)

\$111,005

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Tuscaloosa	29.85	0.25
Mobile	21.78	0.18
Baldwin	21.01	0.18
Jefferson	8.25	0.07
Conecuh	5.69	0.05
Escambia	5.21	0.04
Walker	1.96	0.02
Monroe	1.19	0.01
Shelby	1.10	0.01
Lamar	0.97	0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	11	4	15
Gas	4	239	243
Dry	25	7	32
Total	40	250	290

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	131.8	34.7	166.6
Gas	15.2	488.8	504.0
Dry	283.1	35.8	318.9
Total	430.1	559.4	989.5

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

New-field wildcats drilled	32
Footage (thous. ft.)	335.2

Average rotary rigs active	4
----------------------------	---

Permits	228
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	26th	17th
Production	16th	15th
Reserves (2009)	17th	15th

Number of operators	82
---------------------	----

Number of producing wells

(12/31/09)

Crude oil	507
Natural gas	6,214
Total	6,721

Average production

Crude oil (thous. b/d)	13.8
NGL (thous. b/d)	4.8
Natural gas (MMcf/d)	631.2

Total production

Crude oil (YTD bbls, in thous.)	5,054
Natural gas (YTD MMcf)	230,405

Natural gas marketed production

(MMcf)	236,029
--------	---------

Average output per producing well

Crude oil (bbls.)	9,968
Natural gas (Mcf)	37,078

Coalbed methane (YTD MMcf)	109,018
----------------------------	---------

Oil Wells	3
Gas Wells	5,765
Daily Average (MMcf) / Well	18,190.3

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

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	4	-33	-29
Production	5	7	12
Net annual change	-1	-40	-41
Proved reserves	37	71	108

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	15	-185	-165
Production	5	256	254
Net annual change	10	-441	-419
Proved reserves	29	2,919	2,871

Cost of drilling and equipping wells

	Cost/ft (\$)	Cost well (\$)	Total Cost (thous. \$)
Oil	1,167	12,954,358	194,315
Gas	585	1,213,461	294,871
Dry	1,103	10,996,747	351,896

Marginal oil wells

Producing marginal wells	323
Crude oil production in bbls. (thous.)	698
Crude oil production b/d (thous.)	2

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	5,280
Natural gas production (MMcf)	73,061

Mineral lease royalties, bonuses & rent

Oil	\$ 1,968,983
Gas	\$33,342,328
Total Royalties	\$36,890,077

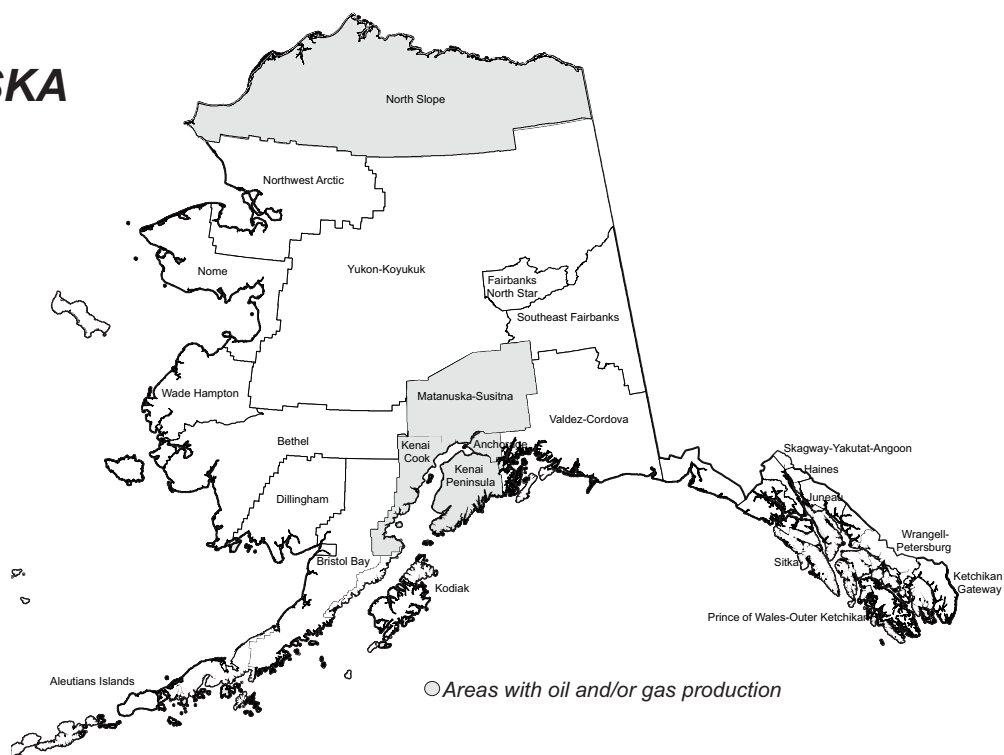
Horizontal wells drilled	15
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Average number of employees

Oil and natural gas extraction	1,903
Refining	1,639
Transportation	3,102
Wholesale	3,085
Retail	17,152
Pipeline construction	1,359
Oilfield machinery	0
Total petroleum industry	28,240

In 2009, only one additional well was completed in Bon Secour Bay field. The first well was completed in this field in 1984, and in 2009 the field produced over 24,000,000 MCFs.

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.)

2009	26,090
------	--------

Cumulative number of total wells drilled as of 12/31/09 (excluding service wells)

Oil wells	4,888	78%
Gas wells	344	5%
Dry holes	1,049	17%
Total	6,281	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$)	\$293,862,290
----------------------------	---------------

Cumulative production & new reserves

	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 (2009)

Crude oil (\$/bbl.)	\$54.41
Natural gas (\$/Mcf)	\$ 2.93

Wellhead value of production (2009, in thous. \$)

Crude oil	\$12,813,555
Natural gas	\$ 1,163,436
Total	\$13,976,991

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$ 10.23
Commercial consumers	\$ 9.51
Industrial consumers	\$ 4.02
Electric utilities	NA
City Gate	\$ 8.22

Severance taxes paid (2009, in thous. \$)

	\$3,112,000
--	-------------

Top producing areas (2009 on a BOE basis)

Areas	% Production	
	State	US
Beechey Point	68.42	3.48
Harrison Bay	20.91	1.06
Kenai	2.83	0.14
Tyonek	2.81	0.14
Kenai Offshore	2.37	0.12
Tyonek Offshore	1.37	0.07
Harrison Bay Offshore	1.04	0.05
Seldovia	0.14	0.01
Barrow	0.11	0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	1	114	115
Gas	0	17	17
Dry	9	4	13
Total	10	135	145

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	15.4	668.5	683.9
Gas	0	150.1	150.1
Dry	60.3	30.8	91.1
Total	75.7	849.4	925.1

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

New-field wildcats drilled	9
Footage (thous. ft.)	60.3

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

Permits	183
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	24th	26th
Production	3rd	10th
Reserves (2009)	3rd	9th

Number of operators	11
---------------------	----

Number of producing wells

(12/31/09)

Crude oil	2,518
Natural gas	203
Total	2,721

Average production

Crude oil (thous. b/d)	648
NGL (thous. b/d)	3
Natural gas (MMcf/day)	409

Total production

Crude oil (YTD bbls, in thous.)	236,522
Natural gas (YTD MMcf)	149,289

Natural gas marketed production

(MMcf)	397,077
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Average output per producing well

Crude oil (bbls.)	93,932
Natural gas (Mcf)	735,413

Coalbed methane (YTD MMcf)	NA
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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	NA

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	269	-13	256
Production	210	13	223
Net annual change	59	0	59
Proved reserves	3,566	299	3,865

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	1,691	87	1,760
Production	225	136	358
Net annual change	1,466	-49	1,402
Proved reserves	8,093	1,090	9,101

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	5,051	30,041,312	3,454,751
Gas	2,509	22,143,308	376,436
Dry	6,076	42,585,642	553,613

Marginal oil wells

Producing marginal wells	161
Crude oil production in bbls. (thous.)	350
Crude oil production b/d (thous.)	1

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	0
Natural gas production (MMcf)	0

Mineral lease royalties, bonuses & rent

Oil	\$30,274,357
Gas	\$18,006,877
Total Royalties	\$80,721,743

Horizontal wells drilled	94
--------------------------	----

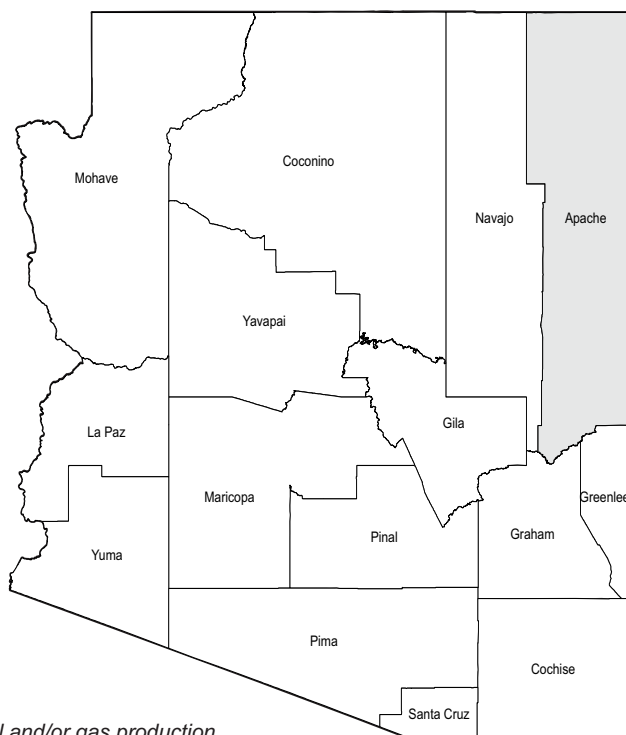
Average number of employees

Oil and natural gas extraction	12,949
Refining	410
Transportation	NA
Wholesale	530
Retail	1,726
Pipeline construction	434
Oilfield machinery	0
Total petroleum industry	16,049

Discovered in the late 1960s, Prudhoe

Bay field in Alaska produced just over 277,000 barrels in 1969. In 2009, over 118 million barrels were produced to put this field as the top producing field in the state.

ARIZONA



○ Counties with oil and/or gas production

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 12/31/09 (excluding service wells)

Oil wells	71	6%
Gas wells	52	5%
Dry holes	998	89%
Total	1,121	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$) \$70,815,393

Cumulative production & new reserves

as of 12/31/09

	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*

(2009)

Crude oil (\$/bbl.)	\$56.96
Natural gas (\$/Mcf)	\$ 3.19

Wellhead value of production

(2009, in thous. \$)

Crude oil	\$2,620
Natural gas	\$2,271
Total	\$4,891

Average natural gas price

(2009, \$/Mcf)

Residential consumers	\$17.65
Commercial consumers	\$12.15
Industrial consumers	\$ 8.19
Electric utilities	\$ 4.16
City Gate	\$ 7.21

Severance taxes paid - FY

(2009, in thous. \$) \$3,214

Top producing counties

(2009 on a BOE basis)

County	% Production	
	State	US
Apache	100	<0.01

2009 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

	NA
--	----

Footage (thous. ft.)

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

Permits	9
---------	---

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	32nd	32nd
Production	31st	30th
Reserves (2009)	NA	NA

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

Number of producing wells

(12/31/09)

Crude oil	23
Natural gas	4
Total	27

Average production

Crude oil (thous. b/d)	0.1
NGL (thous. b/d)	0
Natural gas (MMcf/day)	1.7

Total production

Crude oil (YTD bbls, in thous.)	45
Natural gas (YTD MMcf)	626

Natural gas marketed production

(MMcf)	712
--------	-----

Average output per producing well

Crude oil (bbls.)	1,946
Natural gas (Mcf)	156,549

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	NA

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

* State Data.

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (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 12/31/09 (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	22
Crude oil production in bbls. (thous.)	32
Crude oil production b/d (thous.)	<1

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	1
Natural gas production (MMcf)	17

Mineral lease royalties, bonuses & rent

Oil	\$ 403,245
Gas	\$ 31,755
Total Royalties	\$74,732,101

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

Average number of employees

Oil and natural gas extraction	764
Refining	15
Transportation	262
Wholesale	1,925
Retail	15,787
Pipeline construction	367
Oilfield machinery	0
Total petroleum industry	19,120

Dineh-Bi-Keyeh field in Arizona had 23 wells completed in 2009. Still the highest producing field in AZ, less than 43,000 barrels were produced in 2009.

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 — 679,952 MMcf	2009

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 12/31/09 (excluding service wells)

Oil wells	14,722	37%
Gas wells	9,797	25%
Dry holes	14,889	38%
Total	39,408	100%

Cumulative crude oil wellhead value as of 12/31/09 (thous. \$)

\$12,331,923

Cumulative production & new reserves as of 12/31/09

	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 (2009)

Crude oil (\$/bbl.)	\$ 53.07
Natural gas (\$/Mcf)	\$ 3.43

Wellhead value of production (2009, in thous. \$)

Crude oil	\$ 306,798
Natural gas	\$2,332,235
Total	\$2,639,033

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$13.39
Commercial consumers	\$10.71
Industrial consumers	\$ 8.47
Electric utilities	\$ 4.14
City Gate	\$ 7.60

Severance taxes paid (2009, in thous. \$)

\$28,209

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Van Buren	26.47	0.61
White	19.92	0.46
Conway	16.37	0.37
Logan	7.29	0.17
Cleburne	5.79	0.13
Sebastian	5.45	0.12
Faulkner	4.02	0.09
Franklin	3.74	0.09
Yell	1.88	0.04
Columbia	1.39	0.03

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	1	50	51
Gas	7	1,033	1,040
Dry	11	24	35
Total	19	1,107	1,126

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	5.5	184.9	190.4
Gas	44.8	8,238.2	8,283.0
Dry	73.3	125.5	198.8
Total	123.6	8,548.7	8,672.2

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

New-field wildcats drilled

	11
--	----

Footage (thous. ft.)

76.6

Average rotary rigs active

44

Permits

1,258

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	17th	16th
Production	19th	8th
Reserves (2009)	19th	8th

Number of operators

326

Number of producing wells

(12/31/09)

Crude oil	1,488
Natural gas	6,652
Total	8,140

Average production

Crude oil (thous. b/d)	14.3
NGL (thous. b/d)	NA
Natural gas (MMcf/day)	1,847.6

Total production

Crude oil (YTD bbls, in thous.)	5,202
Natural gas (YTD MMcf)	674,387

Natural gas marketed production

(MMcf)	679,952
--------	---------

Average output per producing well

Crude oil (bbls.)	3,496
Natural gas (Mcf)	101,381

Coalbed methane (YTD MMcf)

1,588

Oil Wells	0
Gas Wells	44
Daily Average (MMcf) / Well	36,098.5

Heavy oil (YTD bbls, in thous.)

NA

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

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	4	1	5
Production	6	0	6
Net annual change	-2	1	-1
Proved reserves	28	2	30

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	12	5,930	5,941
Production	4	694	698
Net annual change	8	5,236	5,243
Proved reserves	20	10,852	10,869

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	360	1,344,996	68,595
Gas	64	508,178	528,505
Dry	503	2,856,010	99,960

Marginal oil wells

Producing marginal wells	1,277
Crude oil production in bbls. (thous.)	1,875
Crude oil production b/d (thous.)	5

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	3,406
Natural gas production (MMcf)	42,460

Mineral lease royalties, bonuses & rent

Oil	\$	56
Gas	\$	6,541,119
Total Royalties	\$	94,833,322

Horizontal wells drilled

939

Average number of employees

Oil and natural gas extraction	6,267
Refining	1,066
Transportation	1,708
Wholesale	2,193
Retail	11,587
Pipeline construction	1,417
Oilfield machinery	0
Total petroleum industry	24,238

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



○ Counties with oil and/or gas production

Background Information

Counties

Number of counties	58
With oil and/or gas production	36*

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.)

1942	28,287
------	--------

Cumulative number of total wells drilled as of 12/31/09 (excluding service wells)

Oil wells	166,415	79%
Gas wells	7,008	3%
Dry holes	37,518	18%
Total	210,988	100%

Cumulative crude oil wellhead value as of 12/31/09 (thous. \$)

\$255,906,723

Cumulative production & new reserves as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	31,124	1,572	32,696	46,929
Production	25,257	1,424	26,681	37,222

*Includes offshore areas

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$ 56.11
Natural gas (\$/Mcf)	\$ 3.96

Wellhead value of production (2009, in thous. \$)

Crude oil	\$11,620,044
Natural gas	\$ 1,095,237
Total	\$12,715,281

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$ 9.43
Commercial consumers	\$ 7.75
Industrial consumers	\$ 6.57
Electric utilities	\$ 7.61
City Gate	\$ 4.17

Severance taxes paid - Est. \$400,000 (2009, in thous. \$)

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Kern	70.35	3.01
Los Angeles	6.37	0.27
Los Angeles Offshore	4.92	0.21
Ventura	3.40	0.15
Fresno	2.92	0.12
Monterey	2.47	0.11
Orange	1.16	0.05
Sutter	1.15	0.05
Santa Barbara	1.15	0.05
Sacramento	0.98	0.04

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	6	1,471	1,477
Gas	1	95	96
Dry	13	37	50
Total	20	1,603	1,623

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	20.7	3,274.9	3,295.6
Gas	0	598.9	598.9
Dry	94.0	164.0	258.1
Total	114.7	4,037.8	4,152.5

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

New-field wildcats drilled	8
Footage (thous. ft.)	59.4

Average rotary rigs active	23
----------------------------	----

Permits	3,001
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	3rd	20th
Production	4th	12th
Reserves (2009)	4th	17th

Number of operators	390
---------------------	-----

Number of producing wells

(12/31/09)

Crude oil	51,866
Natural gas	1,841
Total	53,707

Average production

Crude oil (thous. b/d)	564.9
NGL (thous. b/d)	0.7
Natural gas (MMcf/day)	220.8

Total production

Crude oil (YTD bbls, in thous.)	206,195
Natural gas (YTD MMcf)	80,584

Natural gas marketed production

(MMcf)	276,575
--------	---------

Average output per producing well

Crude oil (bbls.)	3,976
Natural gas (Mcf)	43,772

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

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

Heavy oil (YTD bbls, in thous.)	200,219
Wells	47,624
Av. bbls per day	549
Av. bbls per well	4,204

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	338	16	354
Production	208	11	219
Net annual change	130	5	135
Proved reserves	2,835	129	2,964

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	508	71	606
Production	171	80	239
Net annual change	397	-9	367
Proved reserves	2,314	612	2,773

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	838	1,869,723	2,761,580
Gas	619	3,860,284	370,587
Dry	1,083	5,587,843	279,392

Marginal oil wells

Producing marginal wells	39,521
Crude oil production in bbls. (thous.)	71,214
Crude oil production b/d (thous.)	195

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	1,014
Natural gas production (MMcf)	12,090

Mineral lease royalties, bonuses & rent

Oil	\$126,394,977
Gas	\$ 4,290,497
Total Royalties	\$142,800,329

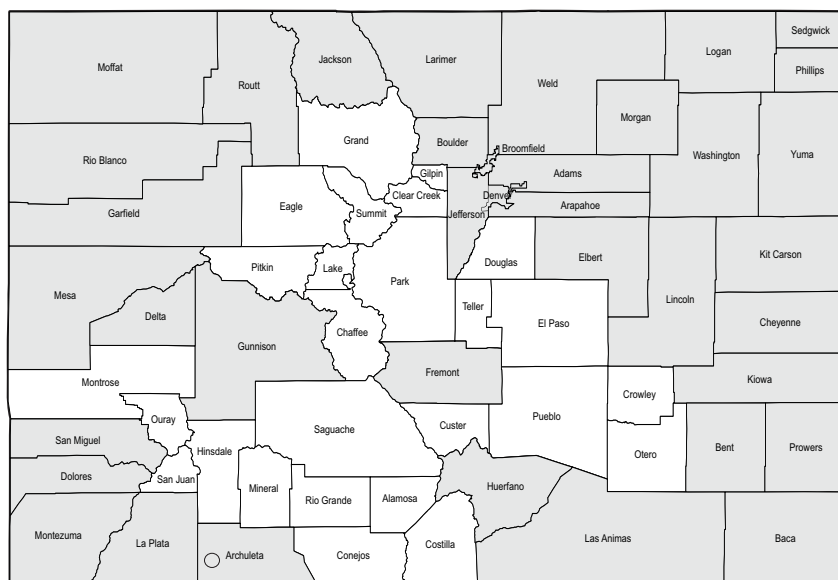
Horizontal wells drilled	147
--------------------------	-----

Average number of employees

Oil and natural gas extraction	18,882
Refining	14,716
Transportation	4,212
Wholesale	10,240
Retail	50,156
Pipeline construction	7,396
Oilfield machinery	1,598
Total petroleum industry	107,200

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 — 1,499,070 MMcf	2009

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 12/31/09 (excluding service wells)

Oil wells	13,791	16%
Gas wells	45,634	53%
Dry holes	25,938	30%
Total	85,363	100%

Cumulative crude oil wellhead value as of 12/31/09 (thous. \$)

\$28,004,111

Cumulative production & new reserves as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	2,270	1,440	3,710	44,604
Production	2,015	649	2,664	19,261

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$52.33
Natural gas (\$/Mcf)	\$ 3.21

Wellhead value of production (2009, in thous. \$)

Crude oil	\$1,482,195
Natural gas	\$4,812,015
Total	\$6,294,210

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$ 8.80
Commercial consumers	\$ 7.56
Industrial consumers	\$ 6.57
Electric utilities	\$ 4.27
City Gate	\$ 5.09

Severance taxes paid (2009, in thous. \$)

\$273,028

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Garfield	36.43	1.89
La Plata	26.59	1.38
Weld	12.85	0.67
Las Animas	7.93	0.41
Rio Blanco	6.19	0.32
Yuma	2.70	0.14
Mesa	2.21	0.11
Moffat	1.10	0.06
San Miguel	0.65	0.03
Cheyenne	0.63	0.03

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	7	70	77
Gas	19	2,305	2,324
Dry	30	56	86
Total	56	2,431	2,487

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	56.5	506.9	563.4
Gas	121.4	17,512.8	17,634.1
Dry	140.2	254.3	394.4
Total	318.1	18,273.9	18,592.0

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

New-field wildcats drilled	43
Footage (thous. ft.)	236.3

Average rotary rigs active	50
----------------------------	----

Permits	3,909
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	18th	8th
Production	11th	6th
Reserves (2009)	12th	3rd

Number of operators	344
---------------------	-----

Number of producing wells

(12/31/09)

Crude oil	4,942
Natural gas	39,296
Total	44,238

Average production

Crude oil (thous. b/d)	27.9
NGL (thous. b/d)	53.2
Natural gas (MMcf/day)	4,209.3

Total production

Crude oil (YTD bbls, in thous.)	10,192
Natural gas (YTD MMcf)	1,536,385

Natural gas marketed production

(MMcf)	1,499,070
--------	-----------

Average output per producing well

Crude oil (bbls.)	2,062
Natural gas (Mcf)	39,098

Coalbed methane (YTD MMcf)	535,571
----------------------------	---------

Oil Wells	0
Gas Wells	4,962
Daily Average (MMcf) / Well	107,934.5

Heavy oil (YTD bbls, in thous.)	11,621
---------------------------------	--------

Wells	608
Av. bbls per day	32
Av. bbls per well	19,113

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	14	110	124
Production	23	48	71
Net annual change	-9	62	53
Proved reserves	279	722	1,001

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	6	1,498	1,280
Production	134	1,458	1,524
Net annual change	-128	40	-244
Proved reserves	1,882	22,199	23,058

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	634	4,640,903	357,350
Gas	1,135	8,611,149	20,012,310
Dry	716	3,284,944	282,505

Marginal oil wells

Producing marginal wells	4,252
Crude oil production in bbls. (thous.)	3,713
Crude oil production b/d (thous.)	10

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	27,794
Natural gas production (MMcf)	308,372

Mineral lease royalties, bonuses & rent

Oil	\$ 31,234,834
Gas	\$ 260,141,286
Total Royalties	\$ 468,230,708

Horizontal wells drilled	21
--------------------------	----

Average number of employees

Oil and natural gas extraction	19,206
Refining	664
Transportation	2,178
Wholesale	2,144
Retail	12,263
Pipeline construction	2,684
Oilfield machinery	220
Total petroleum industry	39,359

Over 115 new wells were completed in Colorado's Ignacio-Blanco field in 2009. Production started here in the 1930s and in 2009 the field produced over 433,000,000 MCFs.

FLORIDA



Average wellhead price
(2009)

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

Wellhead value of production
(2009, in thous. \$)

Crude oil	NA
Natural gas	NA
Total	NA

Average natural gas price
(2009, \$/Mcf)

Residential consumers	\$20.18
Commercial consumers	\$11.09
Industrial consumers	\$ 9.41
Electric utilities	\$ 7.90
City Gate	\$ 5.76

Severance taxes paid - FY	\$7,995
(2009, in thous. \$)	

Top producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Collier	60.26	0.01
Hendry	24.07	<0.01
Santa Rosa	11.36	<0.01
Lee	3.92	<0.01
Escambia	0.38	<0.01

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

Cumulative number of total wells drilled
as of 12/31/09 (excluding service wells)

Oil wells	322	26%
Gas wells	3	0%
Dry holes	916	74%
Total	1,241	100%

Cumulative crude oil wellhead value
as of 12/31/09 (thous. \$) \$9,352,458

Cumulative production & new reserves
as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	695	80	775	621
Production	685	86	771	603

2009 Industry Statistics

Number of wells drilled

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

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	NA	1.1	1.1
Total	NA	1.1	1.1

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

New-field wildcats drilled

	NA
--	----

Average rotary rigs active

0

Permits

2

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	29th	34th
Production	26th	31st
Reserves (2009)	24th	24th

Number of operators

6

Number of producing wells

(12/31/09)

Crude oil	59
Natural gas	0
Total	59

Average production

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

Total production

Crude oil (YTD bbls, in thous.)	696
Natural gas (YTD MMcf)	NA

Natural gas marketed production

(MMcf)	257
--------	-----

Average output per producing well

Crude oil (bbls.)	11,803
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	NA

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	7	0	7
Production	1	0	1
Net annual change	6	0	6
Proved reserves	9	0	9

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	6	0	6
Production	0	0	0
Net annual change	6	0	6
Proved reserves	7	0	7

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	2010	2,219,393	2,219

Marginal oil wells

Producing marginal wells	38
Crude oil production in bbls. (thous.)	26
Crude oil production b/d (thous.)	0

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	0
Natural gas production (MMcf)	0

Mineral lease royalties, bonuses & rent

Oil	--
Gas	--
Total Royalties	\$ 840

Horizontal wells drilled

1

Average number of employees

Oil and natural gas extraction	841
Refining	456
Transportation	2,118
Wholesale	6,035
Retail	36,821
Pipeline construction	687
Oilfield machinery	24
Total petroleum industry	46,982

Raccoon Point field is Florida's top producing field. It was discovered in the 1970s and produced over 325,000 BBls of oil in 2009, up from 172 in 1979.



○ Counties with oil and/or gas production

Background Information

Counties

Number of counties	102
With oil and/or gas production	44

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 12/31/09 (excluding service wells)

Oil wells	64,302	56%
Gas wells	1,267	1%
Dry holes	49,473	43%
Total	115,043	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$) \$23,433,995

Cumulative production & new reserves

as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	3,591	NA	3,591	NA
Production	3,565	NA	3,565	NA

Value of Oil and Gas

Average wellhead price

(2009)

Crude oil (\$/bbl.)	\$55.47
Natural gas (\$/Mcf)	NA

Wellhead value of production

(2009, in thous. \$)

Crude oil	\$504,444
Natural gas	NA
Total	\$504,444

Average natural gas price

(2009, \$/Mcf)

Residential consumers	\$ 8.98
Commercial consumers	\$ 8.65
Industrial consumers	\$ 7.31
Electric utilities	\$ 4.69
City Gate	\$ 5.71

Severance taxes paid

(2009, in thous. \$)

	--
--	----

Top 10 producing counties

(2009 on a BOE basis)

County	State	% Production
White	11.97	0.02
Marion	11.52	0.02
Crawford	10.45	0.02
Lawrence	8.35	0.01
Fayette	6.42	0.01
Clay	6.41	0.01
Wayne	5.56	0.01
Franklin	4.08	0.01
Wabash	3.82	0.01
Richland	3.71	0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	12	167	179
Gas	0	6	6
Dry	39	59	98
Total	51	232	283

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	35.9	412.9	448.8
Gas	0	4.6	4.6
Dry	102.0	136.1	238.1
Total	138.0	553.5	691.5

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

New-field wildcats drilled	12
Footage (thous. ft.)	22.0

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

Permits	593
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	7th	24th
Production	15th	28th
Reserves (2009)	15th	NA

Number of operators	819
---------------------	-----

Number of producing wells*

(12/31/09)

Crude oil	15,719
Natural gas	51
Total	15,770

Average production

Crude oil (thous. b/d)	24.9
NGL (thous. b/d)	NA
Natural gas (MMcf/day)	NA

Total production

Crude oil (YTD bbls, in thous.)	9,099
Natural gas (YTD MMcf)	NA

Natural gas marketed production

(MMcf)	1,443
--------	-------

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	NA

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

* World Oil for Number of producing wells.

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	17	NA	17
Production	5	NA	5
Net annual change	12	NA	12
Proved reserves	66	NA	66

Natural gas reserves

as of 12/31/09 (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	357	894,843	160,177
Gas	978	746,072	4,476
Dry	331	804,120	78,804

Marginal oil wells

Producing marginal wells	7,092
Crude oil production in bbls. (thous.)	5,702
Crude oil production b/d (thous.)	16

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	0
Natural gas production (MMcf)	0

Mineral lease royalties, bonuses & rent

Oil	\$256,176
Gas	--
Total Royalties	\$256,176

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

Average number of employees

Oil and natural gas extraction	2,579
Refining	4,680
Transportation	5,966
Wholesale	5,266
Retail	25,994
Pipeline construction	1,771
Oilfield machinery	17
Total petroleum industry	46,273

Discovered in the early 1930s, Clay

City Consolidated field remains the top producing oil field in the state of Illinois, producing over 991,000 barrels of oil produced.

○ 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 12/31/09 (excluding service wells)

Oil wells	6,710	36%
Gas wells	1,402	7%
Dry holes	10,648	57%
Total	18,760	100%

Cumulative crude oil wellhead value as of 12/31/09 (thous. \$)

\$3,933,973

Cumulative production & new reserves as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	553	NA	553	NA
Production	551	NA	551	NA

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$55.65
Natural gas (\$/Mcf)	\$ 4.05

Wellhead value of production (2009, in thous. \$)

Crude oil	\$100,393
Natural gas	\$ 19,954
Total	\$120,347

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$10.81
Commercial consumers	\$ 9.18
Industrial consumers	\$ 6.91
Electric utilities	\$ 4.69
City Gate	\$ 5.59

Severance taxes paid (2009, in thous. \$)

\$1,213

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Posey	35.47	0.01
Gibson	25.14	0.01
Pike	8.39	<0.01
Greene	5.18	<0.01
Spencer	4.84	<0.01
Daviess	4.76	<0.01
Knox	4.51	<0.01
Vanderburgh	3.90	<0.01
Vigo	3.40	<0.01
Sullivan	2.29	<0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	19	59	78
Gas	25	15	40
Dry	36	19	55
Total	80	93	173

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	38.8	100.4	139.2
Gas	97.6	41.4	139.0
Dry	71.0	28.7	99.7
Total	207.4	170.5	377.9

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

New-field wildcats drilled

	34
--	----

Footage (thous. ft.)

Average rotary rigs active

Permits

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	22nd	23rd
Production	24th	25th
Reserves (2009)	25th	NA

Number of operators

Number of producing wells*

(12/31/09)

Crude oil	2,856
Natural gas	960
Total	3,816

Average production

Crude oil (thous. b/d)	4.9
NGL (thous. b/d)	NA
Natural gas (MMcf/day)	NA

Total production

Crude oil (YTD bbls, in thous.)	1,803
Natural gas (YTD MMcf)	NA

Natural gas marketed production

(MMcf)	4,927
--------	-------

Average output per producing well*

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

Coalbed methane (YTD MMcf)

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

Heavy oil (YTD bbls, in thous.)

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

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

* World Oil for Number of producing wells.

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-6	NA	-6
Production	1	NA	1
Net annual change	-7	NA	-7
Proved reserves	8	NA	8

Natural gas reserves

as of 12/31/09 (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	436	777,247	60,625
Gas	1,482	5,148,743	205,950
Dry	480	870,388	47,871

Marginal oil wells

Producing marginal wells	1,796
Crude oil production in bbls. (thous.)	1,308
Crude oil production b/d (thous.)	4

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral lease royalties, bonuses & rent

Oil	\$ 33,409
Gas	--
Total Royalties	\$149,421

Horizontal wells drilled

	37
--	----

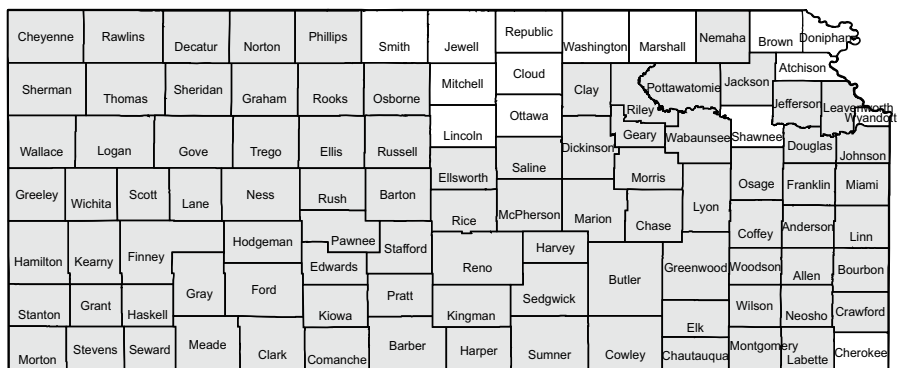
Average number of employees

Oil and natural gas extraction	368
Refining	3,380
Transportation	2,549
Wholesale	3,476
Retail	21,177
Pipeline construction	1,839
Oilfield machinery	112
Total petroleum industry	32,901

Griffin Consolidated field accounts

for just over 12% of the total oil production in Indiana. The number of barrels produced in 2009 was less than half 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 12/31/09 (excluding service wells)

Oil wells	132,407	47%
Gas wells	37,668	13%
Dry holes	111,406	40%
Total	281,481	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$)	\$56,995,507
----------------------------	--------------

Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	6,527	1,449	7,976	44,949
Production	6,264	1,357	7,621	41,441

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$54.41
Natural gas (\$/Mcf)	\$ 3.16

Wellhead value of production (2009 in thous. \$)

Crude oil	\$2,147,236
Natural gas	\$1,120,030
Total	\$3,267,267

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$ 11.10
Commercial consumers	\$10.01
Industrial consumers	\$ 4.59
Electric utilities	\$ 4.13
City Gate	\$ 6.12

Severance taxes paid - FY (2009, in thous. \$)

388,600

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Stevens	10.09	0.20
Grant	7.01	0.14
Haskell	6.62	0.13
Kearny	5.97	0.12
Finney	5.49	0.11
Morton	4.94	0.10
Barber	4.52	0.09
Seward	3.88	0.08
Ellis	3.22	0.06
Wilson	2.66	0.05

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	170	1,227	1,397
Gas	25	417	442
Dry	228	367	595
Total	423	2,011	2,434

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	720.7	3,017.4	3,738.1
Gas	123.9	895.9	1,019.9
Dry	990.0	1,326.4	2,315.9
Total	1,834.2	5,239.7	7,073.9

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

New-field wildcats drilled	208
Footage (thous. ft.)	901.7

Average rotary rigs active	20
----------------------------	----

Permits	2,790
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	4th	10th
Production	10th	11th
Reserves (2009)	13th	13th

Number of operators	1,971
---------------------	-------

Number of producing wells

(12/31/09)

Crude oil	41,792
Natural gas	22,140
Total	63,932

Average production

Crude oil (thous. b/d)	108.1
NGL (thous. b/d)	NA
Natural gas (MMcf/day)	992.2

Total production

Crude oil (YTD bbls, in thous.)	39,448
Natural gas (YTD MMcf)	362,162

Natural gas marketed production

(MMcf)	354,440
--------	---------

Average output per producing well

Crude oil (bbls.)	944
Natural gas (Mcf)	16,358

Coalbed methane (YTD MMcf)	42,042
----------------------------	--------

Oil Wells	14
Gas Wells	3,916
Daily Average (MMcf) / Well	10,735.8

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

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	55	-13	42
Production	39	16	55
Net annual change	16	-29	-13
Proved reserves	259	162	421

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	8	53	56
Production	10	346	334
Net annual change	-2	-293	-278
Proved reserves	83	3,417	3,279

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	179	478,218	668,071
Gas	361	831,915	367,706
Dry	132	514,770	306,288

Marginal oil wells

Producing marginal wells	40,657
Crude oil production in bbls. (thous.)	25,709
Crude oil production b/d (thous.)	70

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	20,501
Natural gas production (MMcf)	262,210

Mineral lease royalties, bonuses & rent

Oil	\$ 2,598,784
Gas	\$ 3,324,319
Total Royalties	\$55,564,827

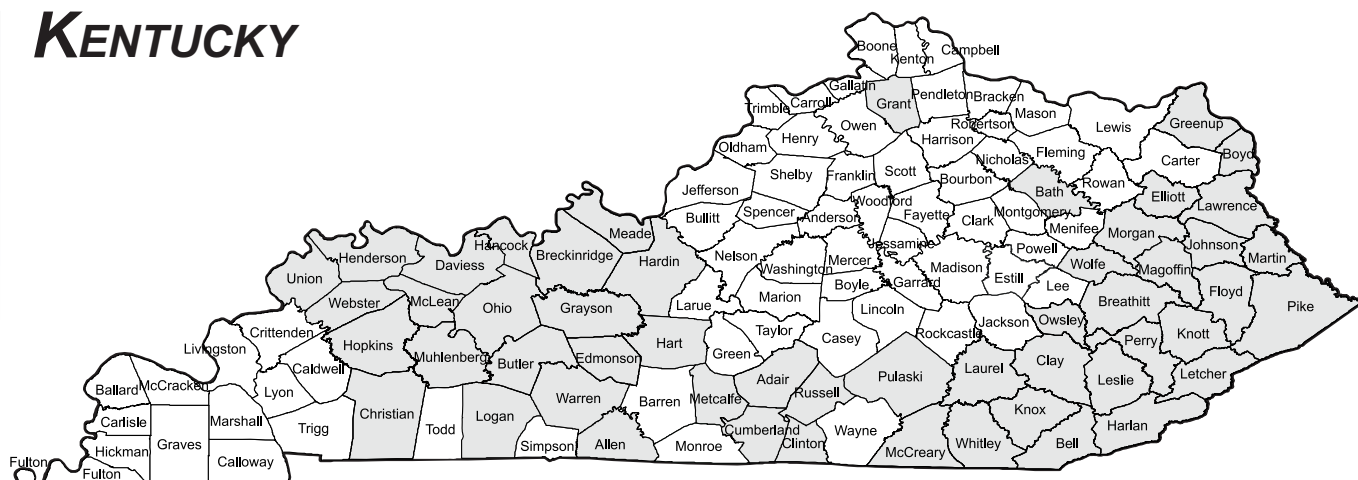
Horizontal wells drilled	5
--------------------------	---

Average number of employees

Oil and natural gas extraction	7,396
Refining	1,684
Transportation	2,724
Wholesale	2,134
Retail	9,614
Pipeline construction	1,438
Oilfield machinery	0
Total petroleum industry	24,990

Oil production in the Bemis-Shutts field is less than half of its first year of production. First discovered in 1928, it produced just over a million barrels of oil in 1980.

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.)

1977	15,200
------	--------

Cumulative number of total wells drilled

as of 12/31/09 (excluding service wells)

Oil wells	32,412	32%
Gas wells	25,282	25%
Dry holes	42,617	42%
Total	100,311	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$) \$18,109,363

Cumulative production & new reserves

as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	769	278	1,047	8,165
Production	763	165	928	5,558

Value of Oil and Gas

Average wellhead price

(2009)

Crude oil (\$/bbl.)	\$55.24
Natural gas (\$/Mcf)	NA

Wellhead value of production

(2009, in thous. \$)

Crude oil	\$ 144,121
Natural gas	\$ NA
Total	\$ 144,121

Average natural gas price

(2009, \$/Mcf)

Residential consumers	\$ 11.96
Commercial consumers	\$ 10.89
Industrial consumers	\$ 6.05
Electric utilities	NA
City Gate	\$ 5.98

Severance taxes paid

(2009, in thous. \$) \$33,172

Top 10 producing counties

(2009 on a BOE basis)

County	% Production	
	State	US
Pike	31.27	0.12
Letcher	14.92	0.05
Knott	12.10	0.04
Floyd	10.05	0.04
Perry	8.07	0.03
Martin	4.98	0.02
Leslie	2.31	0.01
Henderson	1.62	0.01
Clay	1.48	0.01
Harlan	1.43	0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	23	136	159
Gas	172	363	535
Dry	91	213	304
Total	286	712	998

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	35.7	209.5	245.2
Gas	696.7	1,713.9	2,410.7
Dry	144.3	1,324.8	469.1
Total	876.7	2,248.3	3,124.9

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

New-field wildcats drilled	95
Footage (thous. ft.)	294.4

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

Permits	1,355
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	11th	12th
Production	21st	18th
Reserves (2009)	20th	16th

Number of operators	279
---------------------	-----

Number of producing wells

(12/31/09)

Crude oil*	18,053
Natural gas	13,622
Total*	31,675

Average production

Crude oil (thous. b/d)	3
NGL (thous. b/d)	NA
Natural gas (MMcf/day)	294

Total production

Crude oil (YTD bbls, in thous.)	1,004
Natural gas (YTD MMcf)	107,449

Natural gas marketed production

(MMcf)	113,300
--------	---------

Average output per producing well

Crude oil (bbls.)	56
Natural gas (Mcf)	7,888

Coalbed methane (YTD MMcf)	138
----------------------------	-----

Oil Wells	0
Gas Wells	17
Daily Average (MMcf) / Well	0.4

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

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

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

* World Oil for Number of oil producing wells.

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	5	5	10
Production	2	4	6
Net annual change	3	1	4
Proved reserves	20	101	121

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-2	188	176
Production	0	113	108
Net annual change	-2	75	68
Proved reserves	32	2,887	2,782

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	472	728,040	115,758
Gas	396	1,783,794	954,330
Dry	645	995,007	302,482

Marginal oil wells

Producing marginal wells	1,424
Crude oil production in bbls. (thous.)	761
Crude oil production b/d (thous.)	2

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	13,247
Natural gas production (MMcf)	87,570

Mineral lease royalties, bonuses & rent

Oil	\$ 94,232
Gas	\$ 151,445
Total Royalties	\$ 1,649,134

Horizontal wells drilled	275
--------------------------	-----

Average number of employees

Oil and natural gas extraction	2,286
Refining	422
Transportation	1,789
Wholesale	3,036
Retail	17,472
Pipeline construction	806
Oilfield machinery	0
Total petroleum industry	25,811

Oil production in Kentucky's Poole

Consolidated field has decreased by 46% but it's still the state's highest producing field. 85,514 BBls of oil were produced there in 2009.

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 12/31/09 (excluding service wells)

Oil wells	84,986	40%
Gas wells	51,309	24%
Dry holes	77,415	36%
Total	213,710	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$)	\$277,319,469
----------------------------	---------------

Cumulative production & new reserves

as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	27,838	6,481	34,319	281,635
Production	18,812	4,696	23,508	150,473

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$59.10
Natural gas (\$/Mcf)	\$ 3.82

Wellhead value of production (2009, in thous. \$)

Crude oil	\$ 4,078,018
Natural gas	\$ 5,915,679
Total	\$ 9,993,697

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$ 13.15
Commercial consumers	\$ 10.46
Industrial consumers	\$ 4.31
Electric utilities	\$ 4.35
City Gate	\$ 5.96

Severance taxes paid - FY (2009, in thous. \$)

	\$895,855
--	-----------

Top 10 producing parishes (2009 on a BOE basis)

Parish	% Production	
	State	US
De Soto	15.29	0.87
Bossier	9.22	0.53
Caddo	8.65	0.49
Plaquemines	8.14	0.46
Terrebonne	5.94	0.34
Bienville	5.81	0.33
Red River	4.89	0.28
Vermilion	3.99	0.23
Cameron	3.76	0.21
Iberia	3.27	0.19

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	1	235	236
Gas	15	716	731
Dry	17	187	204
Total	33	1,138	1,171

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	7.0	990.5	997.5
Gas	113.3	9,149.1	9,262.4
Dry	150.3	1,355.7	15,06.03
Total	270.6	11,495.3	11,765.9

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

New-field wildcats drilled	19
Footage (thous. ft.)	160.6

Average rotary rigs active	150
----------------------------	-----

Permits	1,789
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	6th	6th
Production	6th	5th
Reserves (2009)	10th	5th

Number of operators	982
---------------------	-----

Number of producing wells

(12/31/09)

Crude oil	17,315
Natural gas	12,859
Total	30,174

Average production

Crude oil (thous. b/d)	130.1
NGL (thous. b/d)	59.7
Natural gas (MMcf/day)	4,032.8

Total production

Crude oil (YTD bbls, in thous.)	47,487
Natural gas (YTD MMcf)	1,471,968

Natural gas marketed production

(MMcf)	1,548,607
--------	-----------

Average output per producing well

Crude oil (bbls.)	2,743
Natural gas (Mcf)	114,470

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

Heavy oil (YTD bbls, in thous.)	21,318
Wells	10,852
Av. bbls per day	58.4
Av. bbls per well	1,964

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	32	59	91
Production	50	44	94
Net annual change	-18	15	-3
Proved reserves	370	341	711

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-50	10,779	10,659
Production	113	1,462	1,544
Net annual change	-163	9,317	9,115
Proved reserves	1,072	19,898	20,688

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	1,063	4,493,124	1,060,377
Gas	990	12,543,285	9,169,141
Dry	1,673	12,352,628	2,519,936

Marginal oil wells

Producing marginal wells	15,301
Crude oil production in bbls. (thous.)	9,398
Crude oil production b/d (thous.)	26

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	5,684
Natural gas production (MMcf)	58,113

Mineral lease royalties, bonuses & rent

Oil	\$ 69,976,334
Gas	\$ 73,420,104
Total Royalties	\$142,162,253

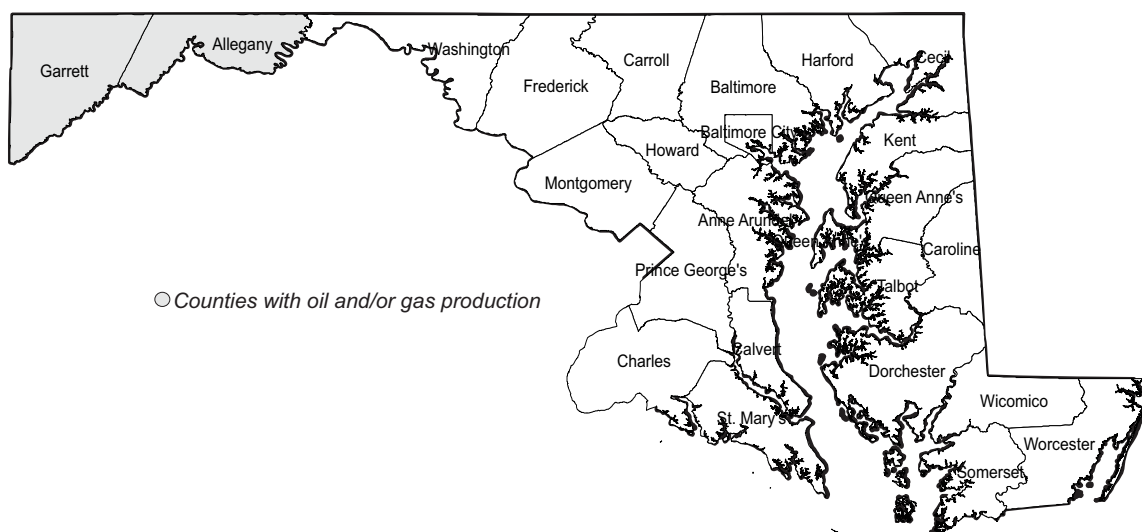
Horizontal wells drilled	381
--------------------------	-----

Average number of employees

Oil and natural gas extraction	47,803
Refining	10,955
Transportation	4,149
Wholesale	3,768
Retail	18,239
Pipeline construction	18,069
Oilfield machinery	8,700
Total petroleum industry	111,683

Discovered in 1916, Elm Grove Field in Louisiana is the top producing gas field in 2009. It produced over 163 million MCFs of gas in 2009, with 54 new wells drilled.

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 12/31/09 (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 12/31/09 (thous. \$)	NA
----------------------------	----

Cumulative production & new reserves

	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 (2009)

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

Wellhead value of production (2009, in thous. \$)

Crude oil	NA
Natural gas	NA
Total	NA

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$13.73
Commercial consumers	\$10.87
Industrial consumers	\$10.70
Electric utilities	\$ 5.42
City Gate	\$ 8.02

Severance taxes paid (2009, in thous. \$)

	\$6
--	-----

Top producing counties (2009 on a BOE basis)

County	% Production
State	US
NA	NA

2009 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 (2009)	NA	NA

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

Number of producing wells*

(12/31/09)

Crude oil	0
Natural gas	6
Total	6

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)	43
--------	----

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	NA

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

* World Oil for Number of natural gas producing wells.

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (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 12/31/09 (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 12/31/09

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral lease royalties, bonuses & rent

Oil	--
Gas	--
Total Royalties	\$9,418

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

Average number of employees

Oil and natural gas extraction	629
Refining	193
Transportation	668
Wholesale	3,099
Retail	9,411
Pipeline construction	1,309
Oilfield machinery	0
Total petroleum industry	15,309

The first exploration well was drilled

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

MICHIGAN



○ Counties with oil and/or gas production

Background Information

Counties

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

First year of production

Crude oil	1900
Natural gas	1909

Year and amount of peak production

Crude oil — 34,862 thous. bbls.	1979
Natural gas — 311,616 MMcf	1997

Deepest producing well (ft.)

Crude oil	12,742
Natural gas	14,716

Year and depth of deepest well drilled (ft.)

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

Cumulative number of total wells drilled as of 12/31/09 (excluding service wells)

Oil wells	15,420	27%
Gas wells	14,545	26%
Dry holes	26,862	47%
Total	56,827	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$)	\$16,075,329
----------------------------	--------------

Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,275	319	1,594	9,604
Production	1,253	244	1,497	6,054

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$56.39
Natural gas (\$/Mcf)	\$ 3.92

Wellhead value of production (2009, in thous. \$)

Crude oil	\$ 332,701
Natural gas	\$ 602,645
Total	\$ 935,346

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$11.27
Commercial consumers	\$ 9.38
Industrial consumers	\$ 9.63
Electric utilities	\$ 4.55
City Gate	\$ 7.24

Severance taxes paid (2009, in thous. \$)

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Wexford	1616.05	9.04
Otsego	22.01	0.12
Montmorency	20.61	0.12
Antrim	14.86	0.08
Alpena	6.91	0.04
Manistee	4.40	0.02
Oscoda	3.93	0.02
Alcona	3.01	0.02
Kalkaska	2.81	0.02
Calhoun	2.34	0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	7	28	35
Gas	3	151	154
Dry	14	15	29
Total	24	194	218

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	29.4	96.0	125.4
Gas	21.8	284.4	306.2
Dry	46.7	55.4	102.1
Total	98.0	435.8	533.7

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

New-field wildcats drilled	15
Footage (thous. ft.)	64.92

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

Permits	315
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	15th	13th
Production	17th	16th
Reserves (2009)	18th	18th

Number of operators	169
---------------------	-----

Number of producing wells

(12/31/09)

Crude oil	3,774
Natural gas	10,349
Total	14,123

Average production

Crude oil (thous. b/d)	16
NGL (thous. b/d)	1.8
Natural gas (MMcf/day)	376.9

Total production

Crude oil (YTD bbls, in thous.)	5,846
Natural gas (YTD MMcf)	137,571

Natural gas marketed production

(MMcf)	153,736
--------	---------

Average output per producing well

Crude oil (bbls.)	1,549
Natural gas (Mcf)	13,293

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	NA

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-10	1	-9
Production	5	3	8
Net annual change	-15	-2	-17
Proved reserves	33	62	95

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-66	-226	-258
Production	5	151	153
Net annual change	-71	-377	-411
Proved reserves	77	2,728	2,763

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	869	3,114,772	109,017
Gas	1,138	2,261,723	348,305
Dry	840	2,957,558	85,769

Marginal oil wells

Producing marginal wells	3,588
Crude oil production in bbls. (thous.)	3,289
Crude oil production b/d (thous.)	9

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	10,066
Natural gas production (MMcf)	120,181

Mineral lease royalties, bonuses & rent

Oil	\$ 295,150
Gas	\$1,746,554
Total Royalties	\$2,819,945

Horizontal wells drilled	315
--------------------------	-----

Average number of employees

Oil and natural gas extraction	2,401
Refining	1,154
Transportation	3,393
Wholesale	4,750
Retail	23,186
Pipeline construction	1,108
Oilfield machinery	0
Total petroleum industry	35,992

Michigan's Antrim field was discovered in the late 1960s. In 2009 the field produced over 125,000,000 MCFs of gas.

MISSISSIPPI



○ Counties with oil and/or gas production

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 12/31/09 (excluding service wells)

Oil wells	11,127	33%
Gas wells	4,372	13%
Dry holes	18,161	54%
Total	33,660	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$)	\$25,788,604
----------------------------	--------------

Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	2,825	137	2,962	10,125
Production	2,606	152	2,758	9,273

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$58.29
Natural gas (\$/Mcf)	\$ 3.73

Wellhead value of production (2009, in thous. \$)

Crude oil	\$ 1,354,193
Natural gas	\$ 328,826
Total	\$ 1,683,019

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$ 11.22
Commercial consumers	\$ 9.48
Industrial consumers	\$ 6.53
Electric utilities	NA
City Gate	\$ 6.56

Severance taxes paid (2009, in thous. \$)

\$109,514

Top 10 producing counties (2009 on a BOE basis)

County	% Production State	% Production US
Rankin	51.29	0.78
Jasper	6.58	0.10
Wayne	6.03	0.09
Jefferson Davis	5.06	0.08
Lincoln	4.52	0.07
Madison	3.59	0.05
Yazoo	2.79	0.04
Jones	2.74	0.04
Lamar	2.58	0.04
Pike	1.92	0.03

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	1	70	71
Gas	1	46	47
Dry	17	28	45
Total	19	144	163

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	10.7	462.7	473.3
Gas	17.7	462.4	480.1
Dry	162.3	256.8	419.0
Total	190.6	1,181.9	1,372.4

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

New-field wildcats drilled	17
Footage (thous. ft.)	167.7

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

Permits	323
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	20th	21st
Production	13th	21st
Reserves (2009)	14th	21st

Number of operators	193
---------------------	-----

Number of producing wells

(12/31/09)

Crude oil	3,872
Natural gas	2,112
Total	5,984

Average production

Crude oil (thous. b/d)	60
NGL (thous. b/d)	3.5
Natural gas (MMcf/day)	921.6

Total production

Crude oil (YTD bbls, in thous.)	21,915
Natural gas (YTD MMcf)	336,382

Natural gas marketed production

(MMcf)	88,157
--------	--------

Average output per producing well

Crude oil (bbls.)	5,660
Natural gas (Mcf)	159,272

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

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

Heavy oil (YTD bbls, in thous.)	1,518
---------------------------------	-------

Wells	236
Av. bbls per day	4.2
Av. bbls per well	6,434

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	18	4	22
Production	23	1	24
Net annual change	-5	3	-2
Proved reserves	244	12	256

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	1	-13	-13
Production	8	93	100
Net annual change	-7	-106	-113
Proved reserves	38	884	917

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	899	5,991,896	425,425
Gas	1,400	14,299,528	672,078
Dry	1,140	10,610,710	477,482

Marginal oil wells

Producing marginal wells	1,141
Crude oil production in bbls. (thous.)	2,514
Crude oil production b/d (thous.)	7

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	1,299
Natural gas production (MMcf)	15,122

Mineral lease royalties, bonuses & rent

Oil	\$ 1,514,718
Gas	\$10,953,676
Total Royalties	\$12,563,297

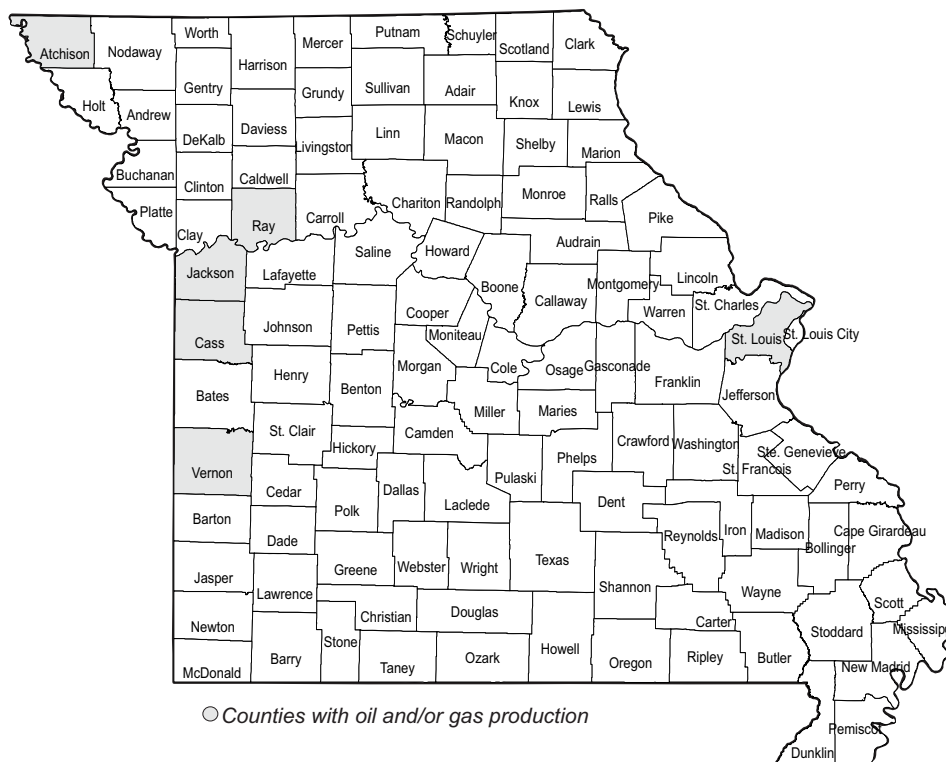
Horizontal wells drilled	15
--------------------------	----

Average number of employees

Oil and natural gas extraction	4,984
Refining	2,139
Transportation	1,629
Wholesale	2,224
Retail	14,436
Pipeline construction	2,047
Oilfield machinery	103
Total petroleum industry	27,562

Discovered in 1946, Eucutta East field in Mississippi is the highest producing oil field in 2009. Production is 200% higher than when it was discovered, yielding over 1,866,000 BBls.

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 12/31/0 (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 12/31/09 (thous. \$)

\$123,221

Cumulative production & new reserves as of 12/31/09

	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 (2009)

Crude oil (\$/bbl.)	\$53.20
Natural gas (\$/Mcf)	NA

Wellhead value of production (2009, in thous. \$)

Crude oil	\$5,001
Natural gas	NA
Total	\$5,001

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$12.61
Commercial consumers	\$10.80
Industrial consumers	\$ 9.55
Electric utilities	NA
City Gate	\$ 7.06

Severance taxes paid (2009, in thous. \$)

--

Top producing counties (2009 on a BOE basis)

County	% Production
State	US
NA	NA

2009 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

17

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	27th	30th
Production	30th	NA
Reserves (2009)	NA	NA

Number of operators

--

Number of producing wells*

(12/31/09)

Crude oil	488
Natural gas	49
Total	537

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

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.

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (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 12/31/09 (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 12/31/09

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral lease royalties, bonuses & rent

Oil	--
Gas	--
Total Royalties	\$8,057,994

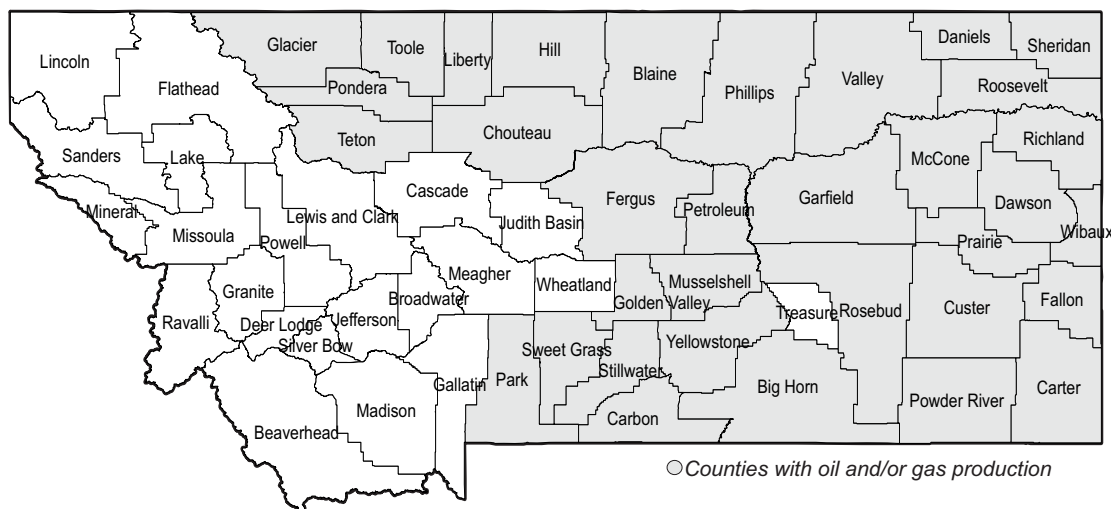
Horizontal wells drilled

0

Average number of employees

Oil and natural gas extraction	227
Refining	573
Transportation	3,431
Wholesale	3,653
Retail	24,362
Pipeline construction	779
Oilfield machinery	0
Total petroleum industry	33,025

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.



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 12/31/09 (excluding service wells)

Oil wells	15,166	35%
Gas wells	10,763	25%
Dry holes	17,466	40%
Total	43,395	100%

Cumulative crude oil wellhead value as of 12/31/09 (thous. \$)

\$26,255,408

Cumulative production & new reserves as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	2,040	58	2,098	4,721
Production	1,709	48	1,757	3,681

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$ 52.96
Natural gas (\$/Mcf)	\$ 3.16

Wellhead value of production (2009, in thous. \$)

Crude oil	\$1,466,568
Natural gas	\$ 310,454
Total	\$1,777,023

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$ 9.50
Commercial consumers	\$ 9.41
Industrial consumers	\$ 9.06
Electric utilities	NA
City Gate	\$ 5.63

Severance taxes paid (2009, in thous. \$)

\$172,189

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Richland	36.83	0.29
Fallon	22.27	0.18
Phillips	7.01	0.06
Big Horn	5.17	0.04
Blaine	4.74	0.04
Hill	3.94	0.03
Sheridan	3.43	0.03
Roosevelt	3.03	0.02
Toole	2.27	0.02
Wibaux	1.79	0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	17	34	51
Gas	6	162	168
Dry	25	13	38
Total	48	209	257

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	193.8	242.0	435.9
Gas	14.8	291.5	306.3
Dry	111.4	45.6	157.0
Total	320.0	579.1	899.2

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

New-field wildcats drilled	30
Footage (thous. ft.)	182.2

Average rotary rigs active	3
----------------------------	---

Permits	359
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	16th	14th
Production	12th	19th
Reserves (2009)	11th	20th

Number of operators	243
---------------------	-----

Number of producing wells

(12/31/09)

Crude oil	4,535
Natural gas	6,705
Total	11,240

Average production

Crude oil (thous. b/d)	76.1
NGL (thous. b/d)	0.2
Natural gas (MMcf/day)	214.7

Total production

Crude oil (YTD bbls, in thous.)	27,771
Natural gas (YTD MMcf)	78,366

Natural gas marketed production

(MMcf) 98,245

Average output per producing well

Crude oil (bbls.)	6,124
Natural gas (Mcf)	11,688

Coalbed methane (YTD MMcf)	12,004
----------------------------	--------

Oil Wells	1
Gas Wells	890
Daily Average (MMcf) / Well	13,487.9

Heavy oil (YTD bbls, in thous.)	258
---------------------------------	-----

Wells	80
Av. bbls per day	0.7
Av. bbls per well	3,223

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	51	1	52
Production	29	1	30
Net annual change	22	0	22
Proved reserves	343	12	355

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	150	-56	89
Production	35	80	113
Net annual change	115	-136	-24
Proved reserves	312	681	976

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	761	6,501,997	331,602
Gas	436	795,136	133,583
Dry	859	3,548,533	134,844

Marginal oil wells

Producing marginal wells	3,085
Crude oil production in bbls. (thous.)	3,685
Crude oil production b/d (thous.)	10

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	6,187
Natural gas production (MMcf)	53,071

Mineral lease royalties, bonuses & rent

Oil	\$ 24,159,213
Gas	\$ 14,261,075
Total Royalties	\$103,538,702

Horizontal wells drilled	28
--------------------------	----

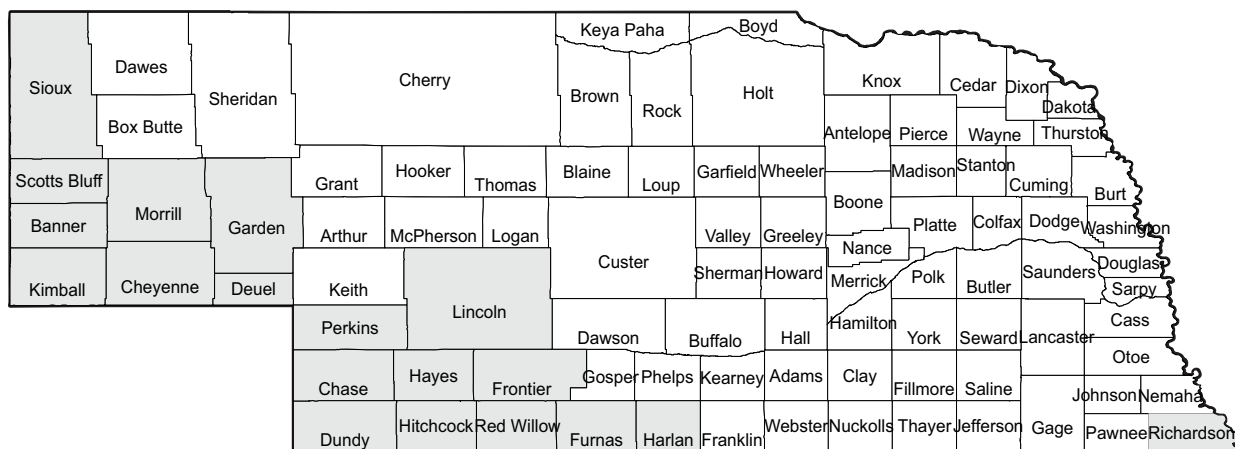
Average number of employees

Oil and natural gas extraction	2,229
Refining	1,094
Transportation	796
Wholesale	879
Retail	5,386
Pipeline construction	355
Oilfield machinery	0
Total petroleum industry	10,739

The Cedar Creek field in Montana

produced over 18 MCFs of gas in 2009. It was discovered in 1915 and is still the top producing field in the state, with 20 new wells dug in 2009.

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 12/31/09 (excluding service wells)

Oil wells	6,116	30%
Gas wells	571	3%
Dry holes	13,600	67%
Total	20,287	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$) \$4,841,271

Cumulative production & new reserves

as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	513	NA	513	NA
Production	509	NA	509	NA

Value of Oil and Gas

Average wellhead price

(2009)

Crude oil (\$/bbl.)	\$50.93
Natural gas (\$/Mcf)	2.97

Wellhead value of production

(2009, in thous. \$)

Crude oil	\$114,032
Natural gas	\$ 8,637
Total	\$122,669

Average natural gas price

(2009, \$/Mcf)

Residential consumers	\$ 9.34
Commercial consumers	\$ 7.44
Industrial consumers	\$ 6.02
Electric utilities	NA
City Gate	\$ 5.87

Severance taxes paid

(2009, in thous. \$) \$2,874

Top 10 producing counties

(2009 on a BOE basis)

County	% Production	
	State	US
Kimball	25.38	0.01
Hitchcock	18.61	0.01
Cheyenne	11.27	0.01
Red Willow	10.11	0.01
Dundy	9.66	0.01
Chase	7.12	<0.01
Banner	5.53	<0.01
Deuel	3.92	<0.01
Morrill	2.16	<0.01
Hayes	1.55	<0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	8	14	22
Gas	0	17	17
Dry	17	18	35
Total	25	49	74

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	30.5	76.3	106.7
Gas	0	42.6	42.6
Dry	97.3	85.5	182.7
Total	127.7	204.3	332.0

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

New-field wildcats drilled

	17
--	----

Footage (thous. ft.)

72.6

Average rotary rigs active

0

Permits

78

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	23rd	25th
Production	22nd	26th
Reserves (2009)	23rd	NA

Number of operators

108

Number of producing wells

(12/31/09)

Crude oil	1,199
Natural gas	356
Total	1,555

Average production

Crude oil (thous. b/d)	6.1
NGL (thous. b/d)	NA
Natural gas (MMcf/day)	7.4

Total production

Crude oil (YTD bbls, in thous.)	2,234
Natural gas (YTD MMcf)	2,713

Natural gas marketed production

(MMcf)	2,908
--------	-------

Average output per producing well

Crude oil (bbls.)	1,863
Natural gas (Mcf)	7,621

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

NA

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	3	NA	3
Production	2	NA	2
Net annual change	1	NA	1
Proved reserves	9	NA	9

Natural gas reserves

as of 12/31/09 (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	746	3,618,723	79,612
Gas	705	1,765,882	30,020
Dry	948	4,950,648	173,273

Marginal oil wells

Producing marginal wells	1,131
Crude oil production in bbls. (thous.)	1,568
Crude oil production b/d (thous.)	4

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	353
Natural gas production (MMcf)	2,713

Mineral lease royalties, bonuses & rent

Oil	\$242,735
Gas	\$ 8,173
Total Royalties	\$271,688

Horizontal wells drilled

0

Average number of employees

Oil and natural gas extraction	235
Refining	12
Transportation	1,895
Wholesale	1,219
Retail	8,657
Pipeline construction	913
Oilfield machinery	0
Total petroleum industry	12,931

When it was first drilled in 1978, Nebraska's Chundy field produced 267,000 MCFs. In 2009, 6 new wells were drilled, bringing the year's total to 640,000 MCFs.



○ Counties with oil and/or gas production

Background Information

Counties

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

First year of production

Crude oil	1954
Natural gas	NA

Year and amount of peak production

Crude oil — 3,230 thous. bbls.	1988
Natural gas — 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 12/31/09 (excluding service wells)

Oil wells	122	13%
Gas wells	2	0%
Dry holes	796	87%
Total	920	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$) \$937,780

Cumulative production & new reserves

as of 12/31/09

	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

(2009)

Crude oil (\$/bbl.)	\$53.52
Natural gas (\$/Mcf)	NA

Wellhead value of production

(2009, in thous. \$)

Crude oil	24,352
Natural gas	NA
Total	24,352

Average natural gas price

(2009, \$/Mcf)

Residential consumers	\$13.18
Commercial consumers	\$10.92
Industrial consumers	\$11.22
Electric utilities	\$ 5.50
City Gate	\$13.18

Severance taxes paid

(2009, in thous. \$) \$538

Top producing counties

(2009 on a BOE basis)

County	% Production	
	State	US
Nye	82.90	0.01
Eureka	17.10	<0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	0	0	0
Gas	0	0	0
Dry	2	1	3
Total	2	1	3

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	NA	NA
Dry	10.9	5.9	16.8
Total	10.9	5.9	16.8

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

New-field wildcats drilled

	2
--	---

Footage (thous. ft.)

10.9

Average rotary rigs active

3

Permits

145

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	31st	35th
Production	27th	33rd
Reserves (2009)	NA	NA

Number of operators

6

Number of producing wells

(12/31/09)

Crude oil	71
Natural gas	0
Total	71

Average production

Crude oil (thous. b/d)	1.2
NGL (thous. b/d)	0
Natural gas (MMcf/day)	0

Total production

Crude oil (YTD bbls, in thous.)	455
Natural gas (YTD MMcf)	0

Natural gas marketed production

(MMcf)	0
--------	---

Average output per producing well

Crude oil (bbls.)	6,403
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

NA

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (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 12/31/09 (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	559	3,134,599	9,404

Marginal oil wells

Producing marginal wells	45
Crude oil production in bbls. (thous.)	110
Crude oil production b/d (thous.)	0

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral lease royalties, bonuses & rent

Oil	\$ 2,445,029
Gas	--
Total Royalties	\$39,948,912

Horizontal wells drilled

0

Average number of employees

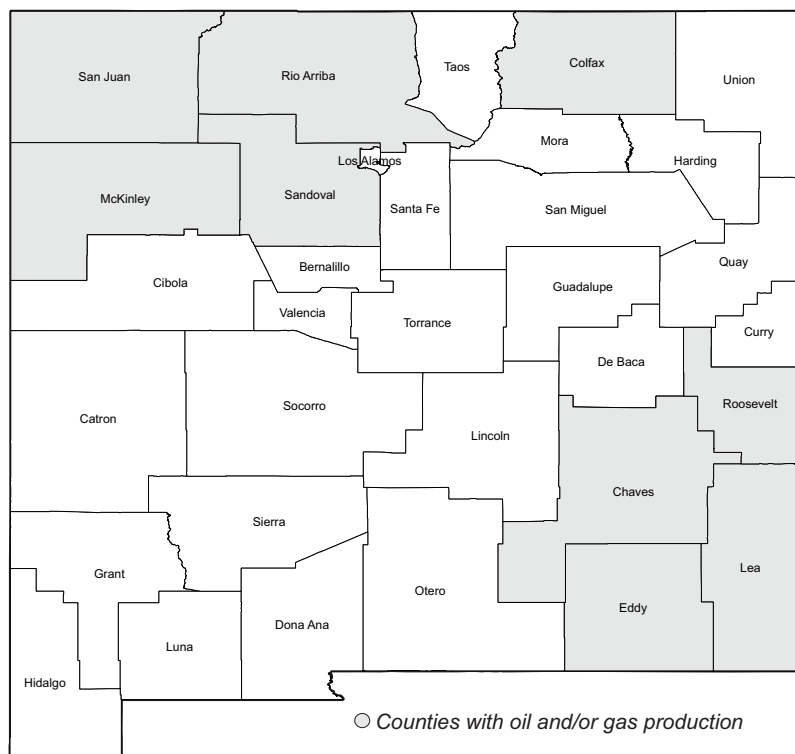
Oil and natural gas extraction	200
Refining	186
Transportation	0
Wholesale	739
Retail	7,830
Pipeline construction	203
Oilfield machinery	0
Total petroleum industry	9,158

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	9

First year of production

Crude oil	1911
Natural gas	1924

Year and amount of peak production

Crude oil — 129,227 thous. bbls.	1969
Natural gas — 1,689,125 MMcf	2001

Deepest producing well (ft.)

Crude oil	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 12/31/09 (excluding service wells)

Oil wells	51,902	46%
Gas wells	41,346	37%
Dry holes	18,736	17%
Total	111,984	100%

Cumulative crude oil wellhead value as of 12/31/09 (thous. \$)

\$70,944,954

Cumulative production & new reserves as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	7,279	3,356	10,635	83,536
Production	6,647	2,521	9,168	67,935

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$57.08
Natural gas (\$/Mcf)	\$ 4.17

Wellhead value of production (2009, in thous. \$)

Crude oil	\$ 3,490,214
Natural gas	\$ 5,767,127
Total	\$ 9,257,340

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$ 9.53
Commercial consumers	\$ 7.52
Industrial consumers	\$ 5.41
Electric utilities	NA
City Gate	\$ 4.07

Severance taxes paid (2009, in thous. \$)

\$1,361,238

Top producing counties (2009 on a BOE basis)

County	% Production	
	State	US
San Juan	36.33	1.78
Rio Arriba	23.80	1.17
Eddy	18.35	0.90
Lea	17.49	0.86
Chaves	2.04	0.10
Colfax	1.72	0.08
Roosevelt	0.17	0.01
Sandoval	0.09	<0.01
McKinley	0.02	<0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	18	559	577
Gas	10	422	432
Dry	20	33	53
Total	48	1,014	1,062

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	95.6	3,543.7	3,639.3
Gas	74.0	2,904.5	2,978.5
Dry	119.6	162.7	282.3
Total	289.1	6,610.9	6,900.0

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

New-field wildcats drilled	38
Footage (thous. ft.)	211.6

Average rotary rigs active	44
----------------------------	----

Permits	1,860
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	9th	9th
Production	8th	7th
Reserves (2009)	6th	6th

Number of operators	527
---------------------	-----

Number of producing wells

(12/31/09)

Crude oil	22,563
Natural gas	34,163
Total	56,726

Average production

Crude oil (thous. b/d)	153.8
NGL (thous. b/d)	14.7
Natural gas (MMcf/day)	3,222

Total production

Crude oil (YTD bbls, in thous.)	56,133
Natural gas (YTD MMcf)	1,176,047

Natural gas marketed production

(MMcf)	1,383,004
--------	-----------

Average output per producing well

Crude oil (bbls.)	2,488
Natural gas (Mcf)	34,425

Coalbed methane (YTD MMcf)	441,439
----------------------------	---------

Oil Wells	1
Gas Wells	5,942
Daily Average (MMcf) / Well	74,291.3

Heavy oil (YTD bbls, in thous.)	10
---------------------------------	----

Wells	30
Av. bbls per day	0
Av. bbls per well	341

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	99	-2	97
Production	53	72	125
Net annual change	46	-74	-28
Proved reserves	700	795	1,495

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	408	334	663
Production	181	1,264	1,350
Net annual change	227	-930	-687
Proved reserves	1,982	14,662	15,598

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	607	3,830,186	2,210,017
Gas	617	4,253,242	1,837,400
Dry	851	4,535,102	240,360

Marginal oil wells

Producing marginal wells	18,792
Crude oil production in bbls. (thous.)	22,752
Crude oil production b/d (thous.)	62

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	23,602
Natural gas production (MMcf)	293,344

Mineral lease royalties, bonuses & rent

Oil	\$ 288,630,758
Gas	\$ 392,973,110
Total Royalties	\$ 765,054,326

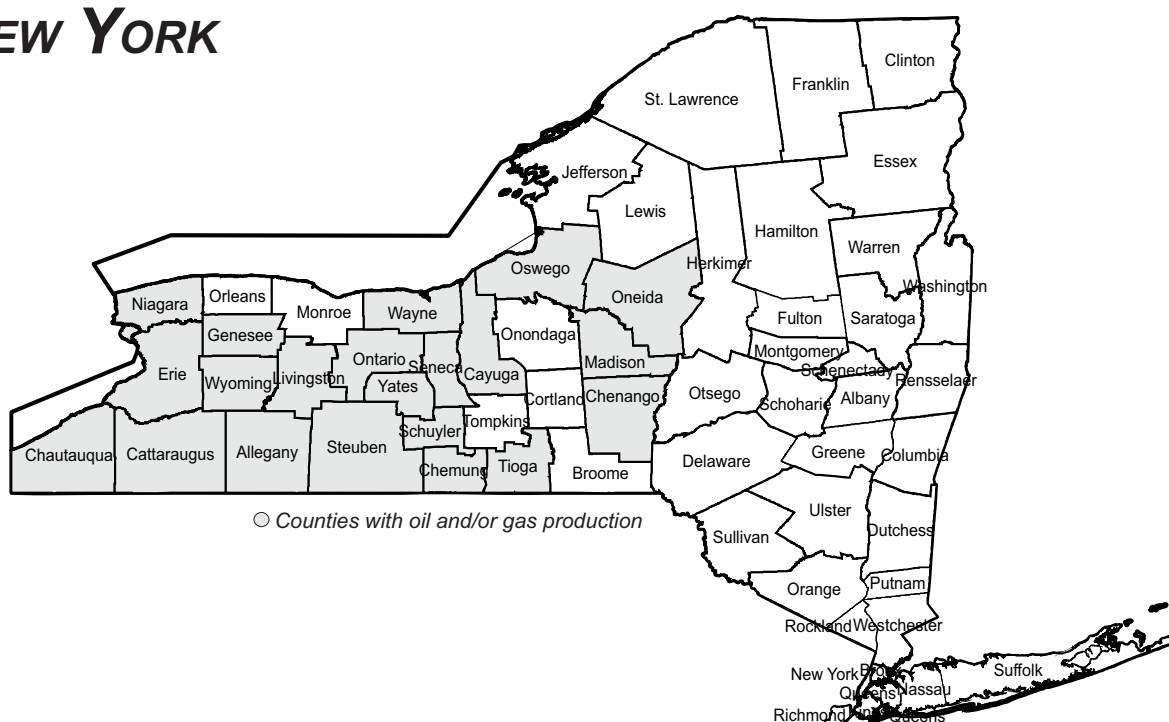
Horizontal wells drilled	139
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Average number of employees

Oil and natural gas extraction	13,275
Refining	866
Transportation	1,419
Wholesale	1,546
Retail	7,732
Pipeline construction	1,786
Oilfield machinery	113
Total petroleum industry	26,737

285 new wells were completed in New Mexico's Basin field in 2009, bringing the total to over 554,000,000 MCFs produced. This field was discovered in the early 1940s.

NEW YORK



Background Information

Counties

Number of counties	62
With oil and/or gas production	21

First year of production

Crude oil	1865
Natural gas	1821

Year and amount of peak production

Crude oil — 6,685 thous. bbls.	1882
Natural gas — 55,980 MMcf	2006

Deepest producing well (ft.)

Crude oil	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 12/31/09 (excluding service wells)

Oil wells	15,787	52%
Gas wells	10,586	35%
Dry holes	3,931	13%
Total	30,305	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$) \$1,237,346

Cumulative production & new reserves

as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	NA	NA	NA	1,516
Production	NA	NA	NA	1,334

Value of Oil and Gas

Average wellhead price

(2009)

Crude oil (\$/bbl.)	\$53.47
Natural gas (\$/Mcf)	\$ 4.21

Wellhead value of production

(2009, in thous. \$)

Crude oil	\$ 18,126
Natural gas	\$188,814
Total	\$206,941

Average natural gas price

(2009, \$/Mcf)

Residential consumers	\$15.05
Commercial consumers	\$10.72
Industrial consumers	\$ 9.52
Electric utilities	\$ 5.26
City Gate	\$ 7.35

Severance taxes paid

(2009, in thous. \$)

	--
--	----

Top 10 producing counties

(2009 on a BOE basis)

County	% Production	
	State	US
Steuben	29.58	0.04
Chemung	28.92	0.04
Chautauqua	15.48	0.02
Cattaraugus	5.78	0.01
Erie	5.32	0.01
Seneca	2.57	<0.01
Cayuga	2.48	<0.01
Schuyler	2.00	<0.01
Tioga	1.76	<0.01
Genesee	1.74	<0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	0	90	90
Gas	28	93	121
Dry	12	20	32
Total	40	203	243

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	0	144.9	144.9
Gas	106.4	266.0	372.3
Dry	58.2	44.6	102.8
Total	164.5	455.5	620.1

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

New-field wildcats drilled

	32
--	----

Footage (thous. ft.)	138.1
----------------------	-------

Average rotary rigs active

2

Permits

484

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	14th	15th
Production	28th	23rd
Reserves (2009)	NA	23rd

Number of operators

439

Number of producing wells

(12/31/09)

Crude oil	2,632
Natural gas	7,401
Total	10,033

Average production

Crude oil (thous. b/d)	0.6
NGL (thous. b/d)	0.2
Natural gas (MMcf/day)	110.4

Total production

Crude oil (YTD bbls, in thous.)	228
Natural gas (YTD MMcf)	40,309

Natural gas marketed production

(MMcf)

44,849

Average output per producing well

Crude oil (bbls.)	87
Natural gas (Mcf)	5,446

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

NA

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (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 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	-29	-129	-158
Production	0	35	35
Net annual change	-29	-164	-193
Proved reserves	0	196	196

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	453	729,027	65,612
Gas	364	1,121,204	135,666
Dry	670	2,152,639	68,884

Marginal oil wells

Producing marginal wells	2,340
Crude oil production in bbls. (thous.)	228
Crude oil production b/d (thous.)	1

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	7,085
Natural gas production (MMcf)	13,949

Mineral lease royalties, bonuses & rent

Oil	--
Gas	\$9,424
Total Royalties	\$9,424

Horizontal wells drilled

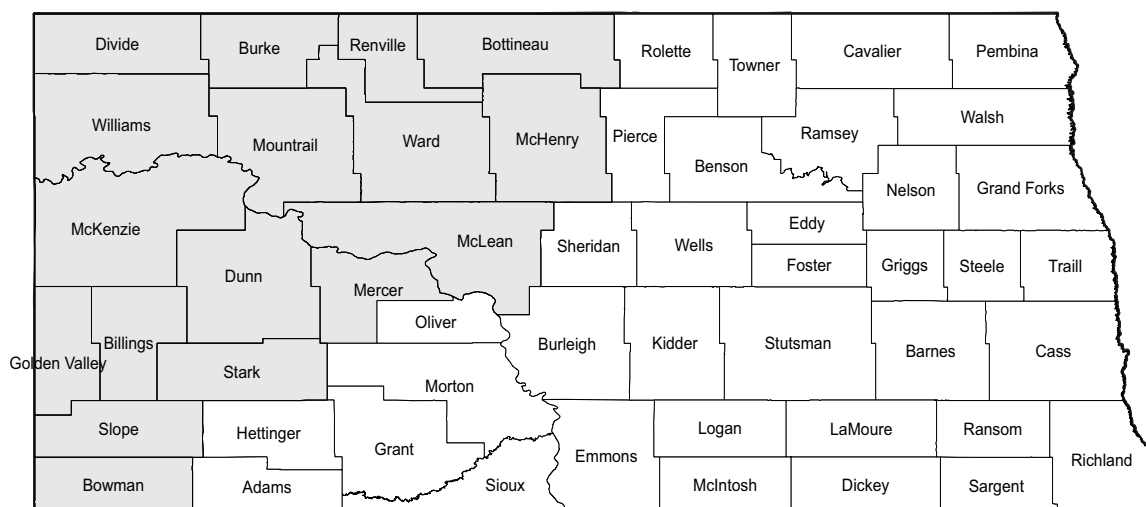
16

Average number of employees

Oil and natural gas extraction	1,404
Refining	388
Transportation	4,498
Wholesale	12,669
Retail	28,412
Pipeline construction	1,660
Oilfield machinery	0
Total petroleum industry	49,031

New York's Lake Shore field was discovered over 100 years ago, and with 44 new wells in 2009, it's still the highest producing gas field in the state.

NORTH DAKOTA



○ Counties with oil and/or gas production

Background Information

Counties

Number of counties	53
With oil and/or gas production	17

First year of production

Crude oil	1951
Natural gas	1907

Year and amount of peak production

Crude oil — 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.)

2009	22,740
------	--------

Cumulative number of total wells drilled as of 12/31/09 (excluding service wells)

Oil wells	11,349	61%
Gas wells	336	2%
Dry holes	6,803	37%
Total	18,488	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$) \$40,233,917

Cumulative production & new reserves

as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	2,763	325	3,088	3,571
Production	1,728	195	1,923	2,508

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$ 53.75
Natural gas (\$/Mcf)	\$ 3.74

Wellhead value of production (2009, in thous. \$)

Crude oil	\$ 4,285,810
Natural gas	\$ 222,040
Total	\$ 4,507,850

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$ 8.46
Commercial consumers	\$ 7.41
Industrial consumers	\$ 5.21
Electric utilities	NA
City Gate	\$ 5.16

Severance taxes paid (2009, in thous. \$)

	\$ 403,100
--	------------

Top 10 producing counties (2009 on a BOE basis)

County	% Production State	% Production US
Mountrail	37.66	0.57
Bowman	16.60	0.25
McKenzie	12.30	0.19
Dunn	11.00	0.17
Williams	7.45	0.11
Billings	4.93	0.08
Bottineau	2.42	0.04
Divide	1.89	0.03
Burke	1.72	0.03
Stark	1.51	0.02

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	118	462	580
Gas	0	2	2
Dry	17	9	26
Total	135	473	608

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	1,696.6	6,935.7	8,632.3
Gas	0	3.5	3.5
Dry	145.4	102.6	248.0
Total	1,842.0	7,041.7	8,883.7

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

New-field wildcats drilled

	83
--	----

Footage (thous. ft.)

1,068.4

Average rotary rigs active

50

Permits

788

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	19th	27th
Production	5th	22nd
Reserves (2009)	5th	19th

Number of operators

155

Number of producing wells

(12/31/09)

Crude oil	4,565
Natural gas	350
Total	4,915

Average production

Crude oil (thous. b/d)	206
NGL (thous. b/d)	11.2
Natural gas (MMcf/day)	50.2

Total production

Crude oil (YTD bbls, in thous.)	75,200
Natural gas (YTD MMcf)	18,338

Natural gas marketed production

(MMcf)

59,369

Average output per producing well

Crude oil (bbls.)	16,473
Natural gas (Mcf)	52,394

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

NA

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	557	61	618
Production	84	8	92
Net annual change	473	53	526
Proved reserves	1,046	116	1,162

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	665	37	620
Production	79	13	82
Net annual change	586	24	538
Proved reserves	1,070	143	1,079

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	933	13,887,020	8,054,472
Gas	1,368	2,359,507	4,719
Dry	911	8,688,205	225,893

Marginal oil wells

Producing marginal wells	2,359
Crude oil production in bbls. (thous.)	5,144
Crude oil production b/d (thous.)	14

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	222
Natural gas production (MMcf)	2,509

Mineral lease royalties, bonuses & rent

Oil	\$ 50,867,192
Gas	\$ 4,122,794
Total Royalties	\$145,178,382

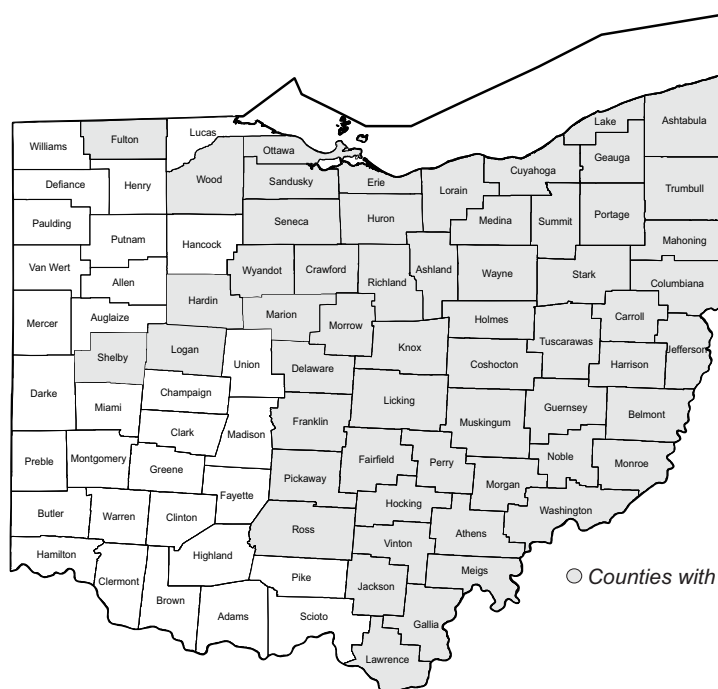
Horizontal wells drilled

578

Average number of employees

Oil and natural gas extraction	5,300
Refining	0
Transportation	338
Wholesale	1,692
Retail	4,162
Pipeline construction	579
Oilfield machinery	0
Total petroleum industry	12,071

When it was discovered in 1952, Beaver Lodge field produced less than 400,000 MCFs. In 2009 it was North Dakota's highest-producing field, at over 14,000,000 MCFs.



Background Information

Counties

Number of counties	88
With oil and/or gas production	57

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 12/31/09 (excluding service wells)

Oil wells	104,309	53%
Gas wells	55,259	28%
Dry holes	35,957	18%
Total	195,525	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$)	\$9,943,380
----------------------------	-------------

Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,128	NA	1,128	9,656
Production	1,103	NA	1,103	9,120

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$56.35
Natural gas (\$/Mcf)	\$ 4.36

Wellhead value of production (2009, in thous. \$)

Crude oil	\$ 328,746
Natural gas	\$ 387,273
Total	\$ 716,019

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$12.68
Commercial consumers	\$10.41
Industrial consumers	\$ 8.93
Electric utilities	\$ 4.40
City Gate	\$ 6.60

Severance taxes paid (2009, in thous. \$)

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Mahoning	8.66	0.02
Trumbull	8.37	0.02
Tuscarawas	7.73	0.02
Cuyahoga	6.62	0.02
Stark	5.05	0.01
Muskingum	5.05	0.01
Portage	4.83	0.01
Summit	4.75	0.01
Wayne	4.53	0.01
Geauga	3.63	0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	4	81	85
Gas	63	414	477
Dry	13	26	39
Total	80	521	601

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	9.0	248.7	257.7
Gas	278.0	1,551.5	1,829.5
Dry	53.5	84.1	137.6
Total	340.5	1,884.4	2,224.9

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

New-field wildcats drilled	12
Footage (thous. ft.)	44.4

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

Permits	722
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	5th	5th
Production	18th	20th
Reserves (2009)	16th	22nd

Number of operators	701
---------------------	-----

Number of producing wells

(12/31/09)

Crude oil	17,015
Natural gas	22,631
Total	39,646

Average production

Crude oil (thous. b/d)	9.8
NGL (thous. b/d)	1.9
Natural gas (MMcf/day)	158.8

Total production

Crude oil (YTD bbls, in thous.)	3,572
Natural gas (YTD MMcf)	57,949

Natural gas marketed production

(MMcf)	88,824
--------	--------

Average output per producing well

Crude oil (bbls.)	210
Natural gas (Mcf)	2,561

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	NA

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	3	NA	3
Production	3	NA	3
Net annual change	0	NA	0
Proved reserves	38	NA	38

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	8	-18	-10
Production	10	69	79
Net annual change	-2	-87	-89
Proved reserves	97	799	896

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	329	997,628	84,798
Gas	303	1,162,947	554,726
Dry	813	2,868,898	111,887

Marginal oil wells

Producing marginal wells	14,839
Crude oil production in bbls. (thous.)	3,147
Crude oil production b/d (thous.)	9

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	22,083
Natural gas production (MMcf)	48,039

Mineral lease royalties, bonuses & rent

Oil	\$ 282,364
Gas	\$ 445,704
Total Royalties	\$ 734,451

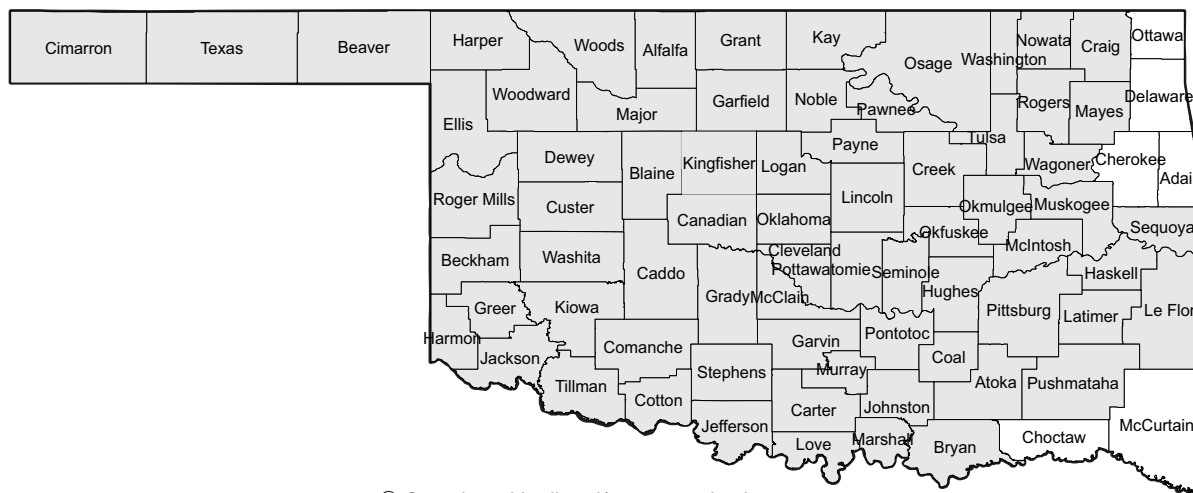
Horizontal wells drilled	4
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Average number of employees

Oil and natural gas extraction	5,068
Refining	2,325
Transportation	4,817
Wholesale	5,083
Retail	32,991
Pipeline construction	2,947
Oilfield machinery	172
Total petroleum industry	53,403

Canton Consolidated field in Ohio was discovered in the 1940s. Since then, gas production has grown over 600%. An additional 37 wells were completed in the field in 2009.

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 12/31/09 (excluding service wells)

Oil wells	245,063	52%
Gas wells	88,573	19%
Dry holes	136,766	29%
Total	470,402	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$)	\$121,607,117
----------------------------	---------------

Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	15,096	5,837	20,933	123,908
Production	14,622	4,614	19,236	115,913

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$56.56
Natural gas (\$/Mcf)	\$ 3.53

Wellhead value of production (2009 in thous. \$)

Crude oil	\$ 3,790,538
Natural gas	\$ 6,557,953
Total	\$10,348,491

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$ 11.39
Commercial consumers	\$10.60
Industrial consumers	\$12.55
Electric utilities	\$ 3.92
City Gate	\$ 7.15

Severance taxes paid (2009, in thous. \$)

	\$1,174,212
--	-------------

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Pittsburg	7.91	0.50
Roger Mills	6.32	0.40
Latimer	6.21	0.40
Caddo	5.58	0.36
Washita	5.39	0.34
Coal	5.25	0.33
Hughes	4.74	0.30
Beckham	3.88	0.25
Grady	3.50	0.22
Canadian	3.40	0.22

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	75	717	792
Gas	171	939	1,110
Dry	56	157	213
Total	302	1,813	2,115

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	587.9	3,477.6	4,065.4
Gas	1,701.6	8,550.9	10,252.5
Dry	352.9	656.7	1,009.5
Total	2,642.3	12,685.1	15,327.4

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

New-field wildcats drilled	102
Footage (thous. ft.)	928.8

Average rotary rigs active	94
----------------------------	----

Permits	2,513
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	2nd	2nd
Production	7th	4th
Reserves (2009)	7th	4th

Number of operators	3,435
---------------------	-------

Number of producing wells

(12/31/09)

Crude oil	38,502
Natural gas	39,817
Total	78,319

Average production

Crude oil (thous. b/d)	134.2
NGL (thous. b/d)	36.7
Natural gas (MMcf/day)	4,579.3

Total production

Crude oil (YTD bbls, in thous.)	48,999
Natural gas (YTD MMcf)	1,671,430

Natural gas marketed production

(MMcf)	1,857,777
--------	-----------

Average output per producing well

Crude oil (bbls.)	1,273
Natural gas (Mcf)	41,978

Coalbed methane (YTD MMcf)	42,870
----------------------------	--------

Oil Wells	0
Gas Wells	3,359
Daily Average (MMcf) / Well	12,762.7

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

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

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	87	148	235
Production	46	94	140
Net annual change	41	54	95
Proved reserves	622	1,165	1,787

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	253	3,744	3,714
Production	119	1,784	1,790
Net annual change	134	1,960	1,924
Proved reserves	1,092	23,115	22,769

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	404	2,074,412	1,642,934
Gas	711	6,563,344	7,285,312
Dry	526	2,494,194	531,263

Marginal oil wells

Producing marginal wells	34,118
Crude oil production in bbls. (thous.)	22,138
Crude oil production b/d (thous.)	61

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	28,692
Natural gas production (MMcf)	333,142

Mineral lease royalties, bonuses & rent

Oil	\$ 11,074,673
Gas	\$ 25,455,746
Total Royalties	\$ 53,679,369

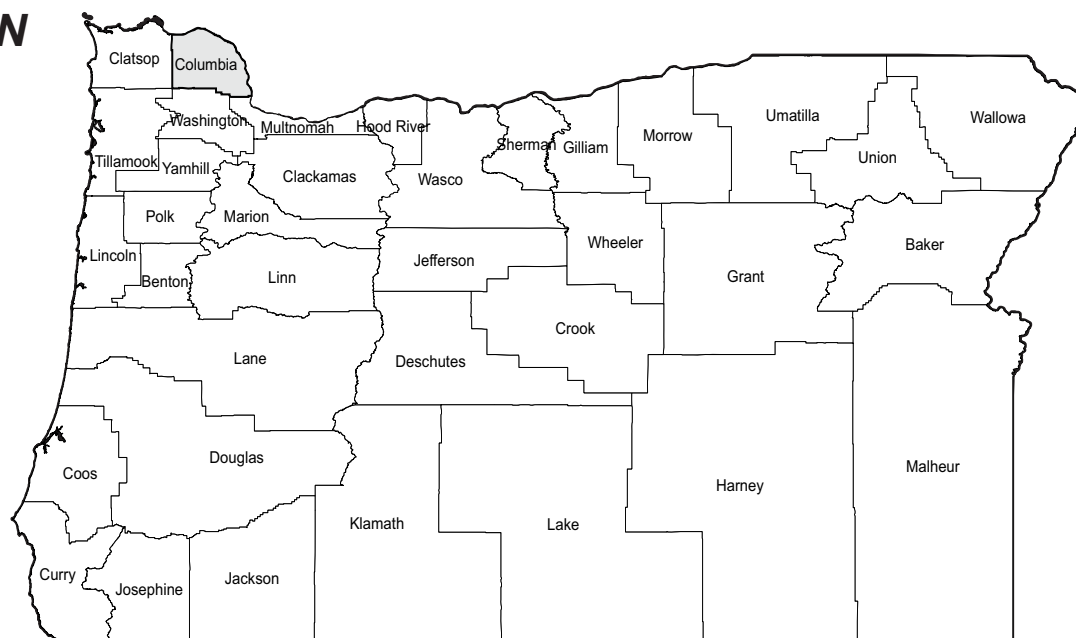
Horizontal wells drilled	674
--------------------------	-----

Average number of employees

Oil and natural gas extraction	42,068
Refining	2,118
Transportation	6,184
Wholesale	3,523
Retail	14,330
Pipeline construction	2,280
Oilfield machinery	6,862
Total petroleum industry	77,365

Discovered in 1966, drilling continued in 2009 in Oklahoma's Strong City District field with 21 new wells. The field produced over 72,000,000 MCFs in 2009.

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 12/31/09 (excluding service wells)

Oil wells	NA	NA
Gas wells	76	17%
Dry holes	374	83%
Total	450	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$)	NA
----------------------------	----

Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	NA	NA	NA	NA
Production	NA	NA	NA	72

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	NA
Natural gas (\$/Mcf)	\$4.00

Wellhead value of production (2009, in thous. \$)

Crude oil	NA
Natural gas	\$ 3,284
Total	\$ 3,284

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$14.52
Commercial consumers	\$11.86
Industrial consumers	\$ 9.70
Electric utilities	\$ 4.25
City Gate	\$ 7.79

Severance taxes paid (2009, in thous. \$)

	\$306
--	-------

Top producing counties (2009 on a BOE basis)

County	% Production
Columbia	100
State	US
	<0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	NA	0	NA
Gas	NA	3	3
Dry	NA	1	1
Total	NA	4	4

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	9.7	9.7
Dry	NA	2.2	2.2
Total	NA	11.9	11.9

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

New-field wildcats drilled

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

Average rotary rigs active

0

Permits

7

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	NA	31st
Production	NA	29th
Reserves (2009)	NA	NA

Number of operators

2

Number of producing wells

(12/31/09)

Crude oil	0
Natural gas	23
Total	23

Average production

Crude oil (thous. b/d)	0
NGL (thous. b/d)	0
Natural gas (MMcf/day)	2.2

Total production

Crude oil (YTD bbls, in thous.)	0
Natural gas (YTD MMcf)	818

Natural gas marketed production

(MMcf)	821
--------	-----

Average output per producing well

Crude oil (bbls.)	NA
Natural gas (Mcf)	35,567

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

NA

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (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 12/31/09 (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	677	2,187,758	6,563
Dry	423	944,227	944

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 12/31/09

Producing marginal wells	16
Natural gas production (MMcf)	234

Mineral lease royalties, bonuses & rent

Oil	--
Gas	--
Total Royalties	\$1,295,494

Horizontal wells drilled

0

Average number of employees

Oil and natural gas extraction	59
Refining	396
Transportation	1,222
Wholesale	1,567
Retail	9,893
Pipeline construction	241
Oilfield machinery	0
Total petroleum industry	13,378

100% of the gas production in Oregon comes from the Mist field. Since its discovery in the late 1970s the field has produced over 818,000 MCFs. Four new wells were drilled there in 2009.

PENNSYLVANIA



○ Counties with oil and/or gas production

Background Information

Counties

Number of counties	67
With oil and/or gas production	33

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 12/31/09 (excluding service wells)

Oil wells	58,649	42%
Gas wells	72,784	53%
Dry holes	6,964	5%
Total	138,399	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$)	\$6,093,723
----------------------------	-------------

Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,363	NA	1,363	20,551
Production	1,362	NA	1,362	13,756

Value of Oil and Gas

Average wellhead price

(2009)

Crude oil (\$/bbl.)	\$59.56
Natural gas (\$/Mcf)	NA

Wellhead value of production

(2009, in thous. \$)

Crude oil	\$210,902
Natural gas	NA
Total	\$210,902

Average natural gas price

(2009, \$/Mcf)

Residential consumers	\$14.74
Commercial consumers	\$11.83
Industrial consumers	\$ 9.42
Electric utilities	\$ 4.60
City Gate	\$ 7.81

Severance taxes paid

(2009, in thous. \$)

--

Top producing counties

(2009 on a BOE basis)

County	% Production	
	State	US
Greene	13.82	0.10
Washington	11.40	0.09
Susquehanna	10.18	0.08
Bradford	9.56	0.07
Westmoreland	7.40	0.06
Indiana	7.24	0.05
Fayette	5.68	0.04
Crawford	5.10	0.04
Armstrong	3.41	0.03
Tioga	3.10	0.02

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	41	878	919
Gas	360	1,444	1,804
Dry	1	5	6
Total	402	2,327	2,729

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	79.3	1,519.3	1,598.7
Gas	2,527.6	6,549.2	9,076.8
Dry	1.2	23.0	24.2
Total	2,608.1	8,091.5	10,699.7

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

New-field wildcats drilled

	185
Footage (thous. ft.)	1,544.1

Average rotary rigs active

42

Permits

5,445

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	8th	3rd
Production	20th	13th
Reserves (2009)	22nd	11th

Number of operators

242

Number of producing wells*

(12/31/09)

Crude oil	5,390
Natural gas	32,076
Total	37,466

Average production

Crude oil (thous. b/d)	2.1
NGL (thous. b/d)	2.2
Natural gas (MMcf/day)	619.2

Total production

Crude oil (YTD bbls, in thous.)	783
Natural gas (YTD MMcf)	226,017

Natural gas marketed production

(MMcf)	273,869
--------	---------

Average output per producing well

Crude oil (bbls.)	145
Natural gas (Mcf)	7,046

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

NA

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

* State data

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-3	25	22
Production	1	1	2
Net annual change	-4	24	20
Proved reserves	10	25	35

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	16	3,682	3,681
Production	10	264	273
Net annual change	6	3,418	3,408
Proved reserves	133	6,885	6,985

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	446	776,477	713,582
Gas	603	3,033,597	5,472,608
Dry	744	2,998,602	17,992

Marginal oil wells

Producing marginal wells	4,827
Crude oil production in bbls. (thous.)	783
Crude oil production b/d (thous.)	2

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	31,095
Natural gas production (MMcf)	101,553

Mineral lease royalties, bonuses & rent

Oil	\$ 0
Gas	\$55,624
Total Royalties	\$57,999

Horizontal wells drilled

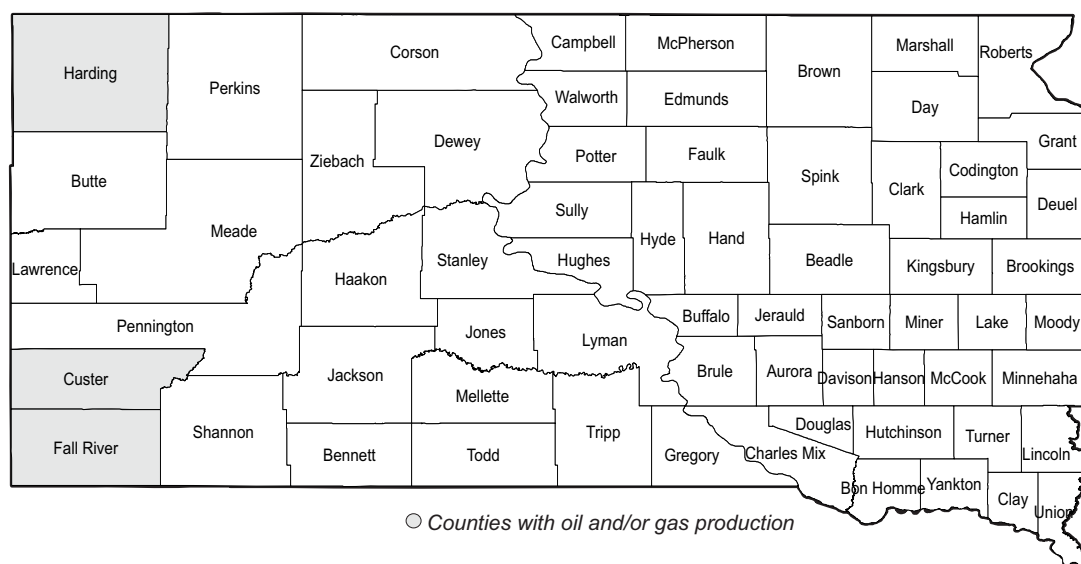
267

Average number of employees

Oil and natural gas extraction	7,868
Refining	5,096
Transportation	5,763
Wholesale	10,632
Retail	36,485
Pipeline construction	2,132
Oilfield machinery	312
Total petroleum industry	68,288

According to state data (DEP), Marcellus shale activity in 2009 added to an increase in permits and wells drilled. A total of 768 Marcellus shale wells were drilled accounting for over 30% of wells drilled. According to Baker Hughes, the rig count rose 83% from 2008.

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 — 1,697 thous. bbls. *	2008
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 12/31/09 (excluding service wells)

Oil wells	450	25%
Gas wells	144	8%
Dry holes	1,206	67%
Total	1,800	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$) \$1,290,445

Cumulative production & new reserves

as of 12/31/09

	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

(2009)

Crude oil (\$/bbl.)	\$50.75
Natural gas (\$/Mcf)	NA

Wellhead value of production

(2009, in thous. \$)

Crude oil	\$ 84,144
Natural gas	\$ 0
Total	\$ 84,144

Average natural gas price

(2009, \$/Mcf)

Residential consumers	\$ 9.14
Commercial consumers	\$ 7.42
Industrial consumers	\$ 6.07
Electric utilities	\$ 5.15
City Gate	\$ 5.07

Severance taxes paid

(2009, in thous. \$) \$5,894

Top producing counties

(2009 on a BOE basis)

County	% Production	
	State	US
Harding	98.64	0.04
Fall River	1.25	<0.01
Custer	0.11	<0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	0	10	10
Gas	2	6	8
Dry	5	1	6
Total	7	17	24

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	0	61.5	61.5
Gas	2.9	9.2	12.1
Dry	15.9	2.5	18.3
Total	18.8	73.2	92.0

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

New-field wildcats drilled

Footage (thous. ft.)	6
----------------------	---

Average rotary rigs active

2*

Permits

59

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	28th	28th
Production	25th	27th
Reserves (2009)	NA	NA

Number of operators

19

Number of producing wells

(12/31/09)

Crude oil	145
Natural gas	87
Total	232

Average production

Crude oil (thous. b/d)	4.5
NGL (thous. b/d)	0.1
Natural gas (MMcf/day)	4.8

Total production

Crude oil (YTD bbls, in thous.)	1,646
Natural gas (YTD MMcf)	1,752

Natural gas marketed production

(MMcf)	2,129
--------	-------

Average output per producing well

Crude oil (bbls.)	11,351
Natural gas (Mcf)	20,137

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

NA

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (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 12/31/09 (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	627	3,860,085	38,601
Gas	1,368	2,071,750	16,574
Dry	635	1,939,751	11,639

Marginal oil wells

Producing marginal wells	48
Crude oil production in bbls. (thous.)	139
Crude oil production b/d (thous.)	0

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	70
Natural gas production (MMcf)	416

Mineral lease royalties, bonuses & rent

Oil	\$1,298,413
Gas	\$ 218,377
Total Royalties	\$1,863,865

Horizontal wells drilled

10

Average number of employees

Oil and natural gas extraction	160
Refining	24
Transportation	267
Wholesale	1,190
Retail	5,831
Pipeline construction	170
Oilfield machinery	0
Total petroleum industry	7,642

Almost 100% of all oil and gas production in South Dakota is produced from the Buffalo Field. This field was discovered in 1954 and has produced almost 11,000,000 MCFs of gas. Also, seven new wells were drilled there in 2009.

TENNESSEE



Value of Oil and Gas

Average wellhead price*
(2009)

Crude oil (\$/bbl.)	\$53.01
Natural gas (\$/Mcf)	\$ 3.83

Wellhead value of production
(2009, in thous. \$)

Crude oil	\$14,207
Natural gas	\$20,981
Total	\$35,187

Average natural gas price
(2009, \$/Mcf)

Residential consumers	\$12.16
Commercial consumers	\$10.67
Industrial consumers	\$ 7.08
Electric utilities	\$ 4.70
City Gate	\$ 6.57

Severance taxes paid - FY	\$1,343
(2009, in thous. \$)	

Top producing counties (2009 on a BOE basis)

County	% Production	
	State	US
NA	NA	NA

NA	State NA	US NA
----	----------	-------

Oil wells	2,875	22%
Gas wells	3,727	29%
Dry holes	6,206	48%
Total	12,808	100%

Cumulative crude oil wellhead value
as of 12/31/09 (thous. \$) \$459.301

Cumulative production & new reserves				
as of 12/31/09)				
	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	NA	NA	NA	NA
Production	NA	NA	NA	NA

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	0	9	9
Gas	40	27	67
Dry	5	37	42
Total	45	73	118

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	0	12.5	12.5
Gas	190.1	96.9	287.0
Dry	8.7	56.0	64.7
Total	198.8	165.4	364.2

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

New-field wildcats drilled

	12
--	----

Footage (thous. ft.)

66.8

Average rotary rigs active

2

Permits

112

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	25th	22nd
Production	29th	24th
Reserves (2009)	NA	NA

Number of operators

--

Number of producing wells*

(12/31/09)

Crude oil	280
Natural gas	260
Total	540

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.)	268
Natural gas (YTD MMcf)	NA

Natural gas marketed production

(MMcf)

5,478

Average output per producing well

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

Coalbed methane (YTD MMcf)

Oil Wells	NA
Gas Wells	NA

Daily Average (MMcf) / Well

NA

Heavy oil (YTD bbls, in thous.)

NA

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

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

* World Oil for Number of Producing Wells

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (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 12/31/09 (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	513	709,591	6,386
Gas	318	1,361,760	91,238
Dry	697	1,073,180	45,074

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 12/31/09

Producing marginal wells	NA
Natural gas production (MMcf)	NA

Mineral lease royalties, bonuses & rent

Oil	--
Gas	--
Total Royalties	--

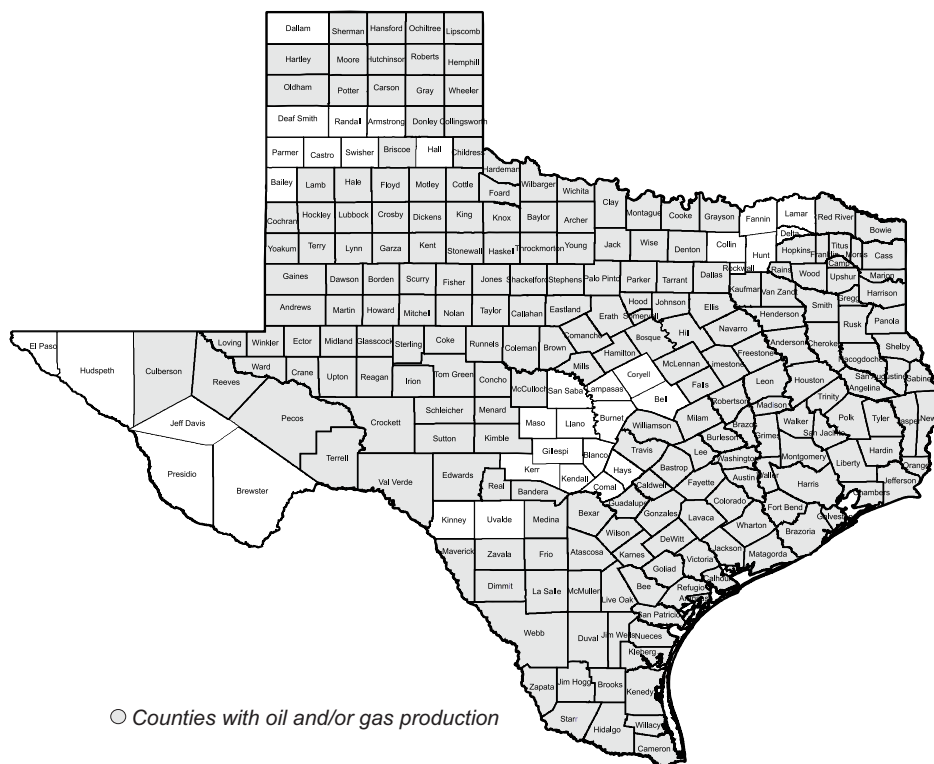
Horizontal wells drilled

29

Average number of employees

Oil and natural gas extraction	589
Refining	1,006
Transportation	2,173
Wholesale	3,316
Retail	21,544
Pipeline construction	532
Oilfield machinery	0
Total petroleum industry	29,160

During 2009, Tennessee's seven most productive oil wells accounted for 58,106 barrels, or nearly 21% of the state's total annual production.



Background Information

Counties

Number of counties	254
With oil and/or gas production	226

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	33,752
------	--------

Cumulative number of total wells drilled as of 12/31/09 (excluding service wells)

Oil wells	600,670	53%
Gas wells	206,261	18%
Dry holes	328,383	29%
Total	1,135,314	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$)	\$670,710,345
----------------------------	---------------

Cumulative production & new reserves

as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	73,821	21,920	95,741	470,253
Production	69,638	17,795	87,433	440,120

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$57.40
Natural gas (\$/Mcf)	\$ 3.81

Wellhead value of production (2009, in thous. \$)

Crude oil	\$23,177,948
Natural gas	\$25,980,287
Total	\$49,158,235

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$11.19
Commercial consumers	\$ 8.16
Industrial consumers	\$ 4.05
Electric utilities	\$ 3.96
City Gate	\$ 5.59

Severance taxes paid - FY (2009, in thous. \$)

Top 10 producing counties (2009 on a BOE basis)

County	% Production	State	US
Johnson	6.19	1.81	
Tarrant	6.09	1.78	
Panola	3.16	0.92	
Freestone	3.16	0.92	
Robertson	3.15	0.92	
Pecos	3.10	0.90	
Zapata	3.04	0.89	
Denton	2.62	0.77	
Wise	2.45	0.71	
Webb	2.26	0.66	

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	57	3,869	3,926
Gas	86	4,619	4,705
Dry	242	863	1,105
Total	385	9,351	9,736

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	412.6	23,535.5	23,948.1
Gas	897.7	48,365.5	49,263.1
Dry	1,844.5	5,171.3	7,015.8
Total	3,154.8	77,072.2	80,227.1

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

New-field wildcats drilled	233
Footage (thous. ft.)	1,909.5

Average rotary rigs active	432
----------------------------	-----

Permits	13,172
---------	--------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	1st	1st
Production	2nd	1st
Reserves (2009)	1st	1st

Number of operators	4,749
---------------------	-------

Number of producing wells

(12/31/09)

Crude oil	160,173
Natural gas	102,471
Total	262,644

Average production

Crude oil (thous. b/d)	956.4
NGL (thous. b/d)	136.1
Natural gas (MMcf/day)	18,941.6

Total production

Crude oil (YTD bbls, in thous.)	349,087
Natural gas (YTD MMcf)	6,913,702

Natural gas marketed production

(MMcf)	6,818,973
--------	-----------

Average output per producing well

Crude oil (bbls.)	2,179
Natural gas (Mcf)	67,470

Coalbed methane (YTD MMcf)	101
----------------------------	-----

Oil Wells	0
Gas Wells	7
Daily Average (MMcf) / Well	14,378.7

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

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

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	794	420	970
Production	343	358	701
Net annual change	451	62	513
Proved reserves	5,006	3,922	8,928

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	1,905	8,704	9,895
Production	702	6,716	7,017
Net annual change	1,203	1,988	2,878
Proved reserves	8,762	76,272	80,424

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	509	3,107,577	12,200,348
Gas	828	8,670,723	40,795,750
Dry	858	5,448,061	6,020,107

Marginal oil wells

Producing marginal wells	146,530
Crude oil production in bbls. (thous.)	151,249
Crude oil production b/d (thous.)	414

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	60,479
Natural gas production (MMcf)	681,630

Mineral lease royalties, bonuses & rent

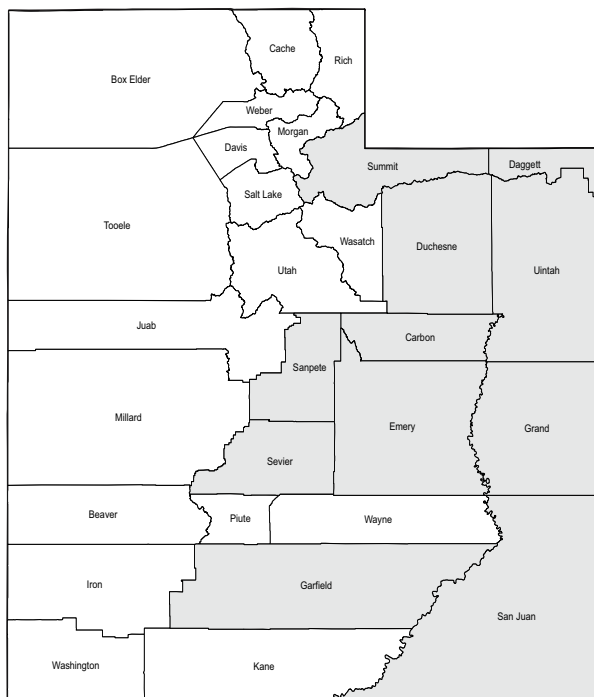
Oil	\$ 8,695,466
Gas	\$35,412,727
Total Royalties	\$63,281,199

Horizontal wells drilled	2,770
--------------------------	-------

Average number of employees

Oil and natural gas extraction	199,084
Refining	22,869
Transportation	21,257
Wholesale	16,125
Retail	69,480
Pipeline construction	26,304
Oilfield machinery	40,351
Total petroleum industry	395,470

The Spraberry field was discovered in 1935 and it has produced the most oil - over 39.4 million barrels. Over 2,700 horizontal wells were also drilled in Texas in 2009.



○ 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 12/31/09 (excluding service wells)

Oil wells	7,827	38%
Gas wells	8,059	38%
Dry holes	5,061	24%
Total	20,947	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$) \$22,713,739

Cumulative production & new reserves

as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	1,599	1,911	3,510	14,822
Production	1,248	469	1,717	7,505

Value of Oil and Gas

Average wellhead price

(2009)

Crude oil (\$/bbl.)	\$ 50.22
Natural gas (\$/Mcf)	\$ 3.38

Wellhead value of production

(2009, in thous. \$)

Crude oil	\$ 1,151,394
Natural gas	\$ 1,501,268
Total	\$ 2,652,662

Average natural gas price

(2009, \$/Mcf)

Residential consumers	\$ 8.95
Commercial consumers	\$ 7.57
Industrial consumers	\$ 5.62
Electric utilities	NA
City Gate	\$ 6.76

Severance taxes paid

(2009, in thous. \$) \$ 9,266

Top 10 producing counties

(2009 on a BOE basis)

County	% Production	
	State	US
Uintah	56.57	0.97
Carbon	18.21	0.31
Duchesne	10.12	0.17
San Juan	5.41	0.09
Sevier	3.44	0.06
Emery	3.16	0.05
Summit	1.65	0.03
Grand	1.10	0.02
Garfield	0.20	<0.01
Daggett	0.11	<0.01

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	20	215	235
Gas	8	371	379
Dry	16	11	27
Total	44	597	641

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	163.3	1,432.2	1,595.5
Gas	83.0	3,149.0	3,232.0
Dry	113.0	21.0	134.0
Total	359.3	4,602.2	4,961.5

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

New-field wildcats drilled

	27
--	----

Footage (thous. ft.) 224.4

Average rotary rigs active

18

Permits

1,285

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	21st	18th
Production	14th	9th
Reserves (2009)	9th	10th

Number of operators

114

Number of producing wells

(12/31/09)

Crude oil	3,548
Natural gas	6,323
Total	9,871

Average production

Crude oil (thous. b/d)	53.8
NGL (thous. b/d)	8.6
Natural gas (MMcf/day)	1,119.6

Total production

Crude oil (YTD bbls, in thous.)	19,646
Natural gas (YTD MMcf)	408,665

Natural gas marketed production

(MMcf)	444,162
--------	---------

Average output per producing well

Crude oil (bbls.)	5,537
Natural gas (Mcf)	64,632

Coalbed methane (YTD MMcf)

63,479

Oil Wells	2
Gas Wells	885
Daily Average (MMcf) / Well	71,727.6

Heavy oil (YTD bbls, in thous.)

539

Wells	108
Av. bbls per day	1.5
Av. bbls per well	4,993

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	132	93	225
Production	20	10	30
Net annual change	112	83	195
Proved reserves	398	206	604

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	313	840	1061
Production	33	423	447
Net annual change	280	417	614
Proved reserves	601	6,810	7,257

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	515	3,499,352	822,348
Gas	1,282	10,928,960	4,142,076
Dry	1,531	7,597,102	205,122

Marginal oil wells

Producing marginal wells	2,553
Crude oil production in bbls. (thous.)	5,535
Crude oil production b/d (thous.)	15

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	3,028
Natural gas production (MMcf)	44,089

Mineral lease royalties, bonuses & rent

Oil	\$135,291,279
Gas	\$133,237,087
Total Royalties	\$297,080,399

Horizontal wells drilled

13

Average number of employees

Oil and natural gas extraction	5,149
Refining	987
Transportation	1,220
Wholesale	905
Retail	9,244
Pipeline construction	544
Oilfield machinery	334
Total petroleum industry	18,383

Over 299 wells were completed in the Natural Buttes field in 2009. This field was discovered in the late 1960s and continues to be the top producing gas field in Utah, at over 223,000,000 MCFs produced.



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2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	NA	522	522
Dry	NA	NA	NA
Total	NA	522	522

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	NA	NA	NA
Gas	0	1,665.7	1,665.7
Dry	NA	NA	NA
Total	0	1,665.7	1,665.7

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

New-field wildcats drilled	0
Footage (thous. ft.)	0

Average rotary rigs active	4
----------------------------	---

Permits	750
---------	-----

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	30th	19th
Production	32nd	17th
Reserves (2009)	34th	14th

Number of operators*	22
----------------------	----

Number of producing wells

(12/31/09)

Crude oil	NA
Natural gas	7,068
Total	7,068

Average production

Crude oil (thous. b/d)	NA
NGL (thous. b/d)	NA
Natural gas (MMcf/day)	385.5

Total production

Crude oil (YTD bbls, in thous.)	0
Natural gas (YTD MMcf)	140,700

Natural gas marketed production

(MMcf)	140,738
--------	---------

Average output per producing well

Crude oil (bbls.)	NA
Natural gas (Mcf)	19,907

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	NA

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

* State Data

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (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 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	0	891	891
Production	0	178	178
Net annual change	0	713	713
Proved reserves	0	3,091	3,091

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	NA	NA	NA
Gas	443	1,414,699	738,473
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 12/31/09

Producing marginal wells	5,906
Natural gas production (MMcf)	78,627

Mineral lease royalties, bonuses & rent

Oil	--
Gas	\$240,486
Total Royalties	\$380,088

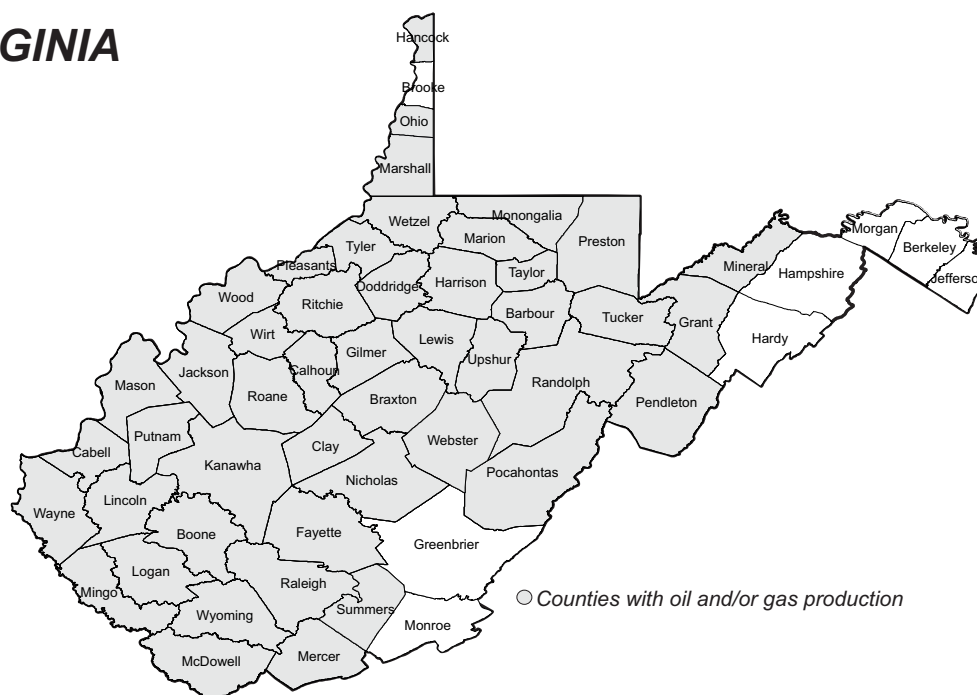
Horizontal wells drilled	31
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Average number of employees

Oil and natural gas extraction	1,718
Refining	0
Transportation	1,744
Wholesale	4,570
Retail	31,539
Pipeline construction	1,513
Oilfield machinery	0
Total petroleum industry	41,084

Keen Mountain field is Virginia's top producing gas field. It was discovered in the late 1970s. In 2009, 239 wells were drilled and over 68,500,000 MCFs were produced there.

WEST VIRGINIA



Background Information

Counties

Number of counties	55
With oil and/or gas production	47

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
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Cumulative number of total wells drilled as of 12/31/09 (excluding service wells)

Oil wells	17,409	19%
Gas wells	67,961	73%
Dry holes	8,182	9%
Total	93,554	100%

Cumulative crude oil wellhead value

as of 12/31/09 (thous. \$)	\$3,165,341
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Cumulative production & new reserves

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	608	501	1,109	26,603
Production	619	427	1,046	20,811

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$ 55.77
Natural gas* (\$/Mcf)	\$ 4.40

Wellhead value of production (2009, in thous. \$)

Crude oil	\$ 103,955
Natural gas	\$1,163,518
Total	\$1,267,474

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$14.75
Commercial consumers	\$14.24
Industrial consumers	\$ 5.55
Electric utilities	\$ 4.78
City Gate	\$ 7.06

Severance taxes paid (2009, in thous. \$)

Severance taxes paid	\$91,506
----------------------	----------

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
McDowell	8.42	0.07
Wyoming	8.00	0.07
Logan	6.85	0.06
Harrison	6.14	0.05
Kanawha	5.99	0.05
Doddridge	5.89	0.05
Lewis	5.55	0.05
Mingo	5.46	0.05
Raleigh	4.21	0.03
Lincoln	4.15	0.03

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	1	9	10
Gas	130	839	969
Dry	3	12	15
Total	134	860	994

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	3.8	39.0	42.8
Gas	839.0	4,535.7	5,374.7
Dry	22.9	29.5	52.4
Total	865.6	4,604.3	5,469.9

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

New-field wildcats drilled	25
Footage (thous. ft.)	168.6

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

Permits	1,703
---------	-------

Statewide rank

	Crude Oil	Natural Gas
Wells drilled	13th	19th
Production	23rd	14th
Reserves (2009)	21st	12th

Number of operators	577
---------------------	-----

Number of producing wells

(12/31/09)

Crude oil	2,284
Natural gas	47,569
Total	49,853

Average production

Crude oil (thous. b/d)	1.2
NGL (thous. b/d)	2.9
Natural gas (MMcf/day)	692.9

Total production

Crude oil (YTD bbls, in thous.)	446
Natural gas (YTD MMcf)	252,895

Natural gas marketed production

(MMcf)	264,436
--------	---------

Average output per producing well

Crude oil (bbls.)	195
Natural gas (Mcf)	5,316

Coalbed methane (YTD MMcf)	879
----------------------------	-----

Oil Wells	0
Gas Wells	97
Daily Average (MMcf) / Well	9,059.9

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

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

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

* State data

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	-3	9	6
Production	1	5	6
Net annual change	-4	4	0
Proved reserves	19	109	128

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	3	1,105	1,088
Production	2	282	278
Net annual change	1	823	810
Proved reserves	24	6,066	5,946

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	356	1,523,800	15,238
Gas	456	2,526,972	2,448,636
Dry	686	2,394,687	35,920

Marginal oil wells

Producing marginal wells	1,946
Crude oil production in bbls. (thous.)	421
Crude oil production b/d (thous.)	1

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	46,225
Natural gas production (MMcf)	188,459

Mineral lease royalties, bonuses & rent

Oil	--
Gas	\$ 578,952
Total Royalties	\$ 829,664

Horizontal wells drilled	177
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Average number of employees

Oil and natural gas extraction	5,323
Refining	890
Transportation	2,525
Wholesale	1,000
Retail	9,016
Pipeline construction	985
Oilfield machinery	0
Total petroleum industry	19,739

Operators started producing the McGraw field in West Virginia in the 1980s. In 2009 an additional 4 wells were completed bringing production to 7.8 million MCFs for the year.



○ 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 — 2,335,328 MMcf	2009

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 12/31/09 (excluding service wells)

Oil wells	34,080	31%
Gas wells	46,567	42%
Dry holes	30,349	27%
Total	110,996	100%

Cumulative crude oil wellhead value as of 12/31/09 (thous. \$)

\$80,484,471

Cumulative production & new reserves as of 12/31/09

	Crude Oil	NGL (mill. bbls.)	Total	Natural Gas (Bcf)
Reserves	7,296	2,610	9,906	70,864
Production	6,854	1,478	8,332	37,717

Value of Oil and Gas

Average wellhead price (2009)

Crude oil (\$/bbl.)	\$52.30
Natural gas (\$/Mcf)	\$ 3.40

Wellhead value of production (2009, in thous. \$)

Crude oil	\$ 2,684,716
Natural gas	\$ 7,940,115
Total	\$10,624,831

Average natural gas price (2009, \$/Mcf)

Residential consumers	\$ 9.39
Commercial consumers	\$ 8.01
Industrial consumers	\$ 5.79
Electric utilities	NA
City Gate	\$ 4.89

Severance taxes paid (2009, in thous. \$)

\$488,569

Top 10 producing counties (2009 on a BOE basis)

County	% Production	
	State	US
Sublette	45.40	3.87
Johnson	14.12	1.20
Sweetwater	7.81	0.67
Fremont	6.84	0.58
Campbell	6.67	0.57
Carbon	4.67	0.40
Lincoln	3.18	0.27
Sheridan	2.41	0.21
Uinta	2.32	0.20
Natrona	2.05	0.17

2009 Industry Statistics

Number of wells drilled

	Exploratory	Development	Total
Oil	8	89	97
Gas	12	1,704	1,716
Dry	25	48	73
Total	45	1,841	1,886

Total footage drilled

(thous. ft.)

	Exploratory	Development	Total
Oil	63.3	323.9	387.2
Gas	159.2	11,044.0	11,203.2
Dry	161.2	175.7	336.9
Total	383.7	11,543.6	11,927.3

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

New-field wildcats drilled	36
Footage (thous. ft.)	304.9

Average rotary rigs active	40
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Permits	2,027
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Statewide rank

	Crude Oil	Natural gas
Wells drilled	10th	7th
Production	9th	3rd
Reserves (2009)	8th	2nd

Number of operators	436
---------------------	-----

Number of producing wells

(12/31/09)

Crude oil	11,798
Natural gas	33,294
Total	45,092

Average production

Crude oil (thous. b/d)	105.4
NGL (thous. b/d)	35.7
Natural gas (MMcf/day)	6,572.9

Total production

Crude oil (YTD bbls, in thous.)	38,489
Natural gas (YTD MMcf)	2,399,101

Natural gas marketed production

(MMcf)	2,335,328
--------	-----------

Average output per producing well

Crude oil (bbls.)	3,262
Natural gas (Mcf)	72,058

Coalbed methane (YTD MMcf)	584,161
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Oil Wells	4
Gas Wells	20,647
Daily Average (MMcf) / Well	28,292.8

Heavy oil (YTD bbls, in thous.)	8,994
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Wells	2,067
Av. bbls per day	24.6
Av. bbls per well	4,351

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

2009 Latest Available Data

Petroleum reserves

as of 12/31/09 (mill. bbls.)

	Crude Oil	NGL	Total
New reserves	65	174	239
Production	38	77	115
Net annual change	27	97	124
Proved reserves	583	1282	1865

Natural gas reserves

as of 12/31/09 (Bcf)

	Associated Dissolved	Non- Associated	Dry Gas
New reserves	177	1,105	6,373
Production	38	2,288	2,233
Net annual change	139	4,210	4,140
Proved reserves	362	36,386	35,283

Cost of drilling and equipping wells

	Cost/ft. (\$)	Cost/ well (\$)	Total Cost (thous. \$)
Oil	601	2,398,107	232,616
Gas	1,223	7,981,762	13,696,703
Dry	1432	6,610,052	482,534

Marginal oil wells

Producing marginal wells	9,404
Crude oil production in bbls. (thous.)	12,696
Crude oil production b/d (thous.)	35

Marginal natural gas wells

as of 12/31/09

Producing marginal wells	19,788
Natural gas production (MMcf)	167,793

Mineral lease royalties, bonuses & rent

Oil	\$ 246,240,832
Gas	\$ 603,600,774
Total Royalties	\$1,884,720,800

Horizontal wells drilled	21
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Average number of employees

Oil and natural gas extraction	15,391
Refining	1,039
Transportation	1,072
Wholesale	698
Retail	3,918
Pipeline construction	3,214
Oilfield machinery	0
Total petroleum industry	25,332

20% of the gas production in Wyoming is produced in the Powder River Basin Coal Bed field. Over 1,500 wells were completed in this field in 2008.

ROTARY RIGS OPERATING

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	4	5	3	3	3	4	5	5	5	4
Alaska	8	13	11	10	10	9	8	8	8	8
Arkansas	4	2	1	2	6	9	24	45	51	44
California	24	36	23	22	24	27	33	35	42	23
Colorado	18	32	28	39	54	74	89	107	114	50
Florida	0	0	0	1	1	2	0	0	1	0
Hawaii	NA	NA	NA	NA	NA	1	0	0	0	1
Idaho	NA	NA	NA	NA	NA	0	0	0	0	0
Illinois	0	0	0	0	0	0	0	0	0	1
Indiana	0	0	0	0	0	0	0	0	2	2
Iowa	0	0	1	1	0	0	0	2	0	0
Kansas	22	23	8	9	7	7	10	14	11	20
Kentucky	5	6	5	4	5	5	7	9	10	10
Louisiana	194	214	163	157	167	182	188	177	167	150
Maryland	0	0	0	0	0	0	0	1	0	0
Michigan	3	1	1	3	3	3	2	2	1	0
Mississippi	11	14	8	8	10	10	10	14	13	10
Montana	7	10	8	14	20	24	22	17	11	3
Nebraska	1	0	0	0	1	0	0	0	0	0
Nevada	0	0	0	1	2	2	1	2	3	3
New Mexico	68	68	42	65	67	83	94	78	78	44
New York	3	5	4	3	5	4	6	6	6	2
North Dakota	13	14	10	14	15	21	32	39	68	50
Ohio	9	10	9	8	7	9	8	13	12	8
Oklahoma	99	130	91	129	159	152	179	188	200	94
Oregon	0	0	0	0	0	0	0	0	1	0
Pennsylvania	9	11	11	10	9	13	16	16	23	42
South Dakota	0	1	0	0	1	2	1	2	2	0
Tennessee	0	1	0	0	0	0	1	5	4	2
Texas	343	462	338	449	506	614	746	834	898	432
Utah	16	21	13	14	22	28	40	42	42	18
Virginia	2	2	2	1	1	2	1	3	5	4
Washington	0	1	0	0	0	0	1	0	1	1
West Virginia	14	18	13	16	15	17	27	32	27	22
Wyoming	41	55	40	54	74	78	99	74	74	40
TOTAL U.S.	918	1,156	830	1,032	1,192	1,381	1,649	1,769	1,880	1086
ONSHORE	779	1,002	716	923	1,095	1,287	1,559	1,696	1,814	1041
OFFSHORE	139	154	114	109	97	94	90	73	66	45

Source: Baker Hughes.

Note: Averages may not add up to total due to rounding.

NEW-FIELD WILDCAT WELLS DRILLED

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	17	19	16	17	22	17	26	35	24	32
Alaska	8	10	10	10	8	15	8	10	13	9
Arizona	1	0	1	0	1	4	1	1	0	0
Arkansas	13	18	10	10	14	10	34	39	30	11
California	41	39	27	27	30	29	18	17	18	8
Colorado	42	71	40	48	68	136	102	132	86	43
Florida	0	0	0	1	0	2	0	0	0	0
Georgia	0	1	0	0	0	0	0	0	0	0
Illinois	20	36	17	32	31	34	31	22	20	12
Indiana	5	19	9	17	19	19	39	33	30	34
Iowa	0	1	0	0	0	0	0	0	0	0
Kansas	147	212	153	158	169	225	275	249	305	208
Kentucky	27	98	87	133	176	242	313	227	168	95
Louisiana	83	63	75	62	60	58	52	52	30	19
Michigan	20	19	24	19	23	18	28	21	34	15
Mississippi	25	29	38	33	30	33	30	42	25	17
Missouri	1	3	2	0	0	0	0	0	0	0
Montana	56	90	95	120	148	160	140	107	81	30
Nebraska	15	12	14	15	16	19	21	22	55	17
Nevada	3	3	2	3	6	6	1	5	5	2
New Mexico	44	58	32	60	76	46	67	46	44	38
New York	24	40	36	26	54	30	30	45	50	32
North Dakota	19	19	9	4	26	44	101	98	87	83
Ohio	0	6	6	5	2	16	21	41	34	12
Oklahoma	66	102	70	96	104	108	181	256	273	102
Oregon	0	0	0	0	1	0	0	0	0	0
Pennsylvania	4	25	14	43	126	188	224	349	293	185
South Dakota	1	1	6	5	1	7	4	13	16	6
Tennessee	9	11	27	42	27	37	82	62	28	12
Texas	514	433	347	436	473	468	392	315	383	233
Utah	6	20	30	11	22	32	50	49	49	27
Virginia	8	4	8	8	3	2	10	28	8	0
Washington	1	3	0	0	0	0	0	2	0	0
West Virginia	10	33	30	18	29	27	43	56	53	25
Wyoming	77	80	74	82	90	80	77	62	52	36
Federal Offshore	108	102	68	83	82	72	62	58	52	70
TOTAL U.S.	1,415	1,680	1,377	1,624	1,937	2,184	2,463	2,494	2,346	1,383

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*

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	17	22	17	23	36	27	35	49	36	40
Alaska	8	14	17	12	13	19	14	18	14	10
Arizona	1	0	1	0	1	4	1	1	0	0
Arkansas	14	23	10	12	19	18	45	47	45	19
California	79	89	62	52	69	74	44	36	26	20
Colorado	88	137	57	81	104	206	159	177	124	56
Florida	0	0	0	1	0	2	0	0	0	0
Georgia	0	1	0	0	0	0	0	0	0	0
Illinois	50	48	33	44	47	50	72	84	61	51
Indiana	10	19	12	37	24	40	58	69	79	80
Iowa	0	1	0	0	0	0	0	0	0	0
Kansas	248	398	279	289	341	418	457	479	608	423
Kentucky	59	136	132	188	302	448	598	464	353	286
Louisiana	87	64	83	72	73	70	65	67	56	33
Michigan	23	25	30	23	27	24	34	31	52	24
Mississippi	33	33	43	41	34	44	40	53	32	19
Missouri	1	3	2	0	0	0	0	0	0	0
Montana	100	177	156	186	237	278	254	188	145	48
Nebraska	30	19	17	22	18	30	32	34	71	25
Nevada	3	4	2	3	6	6	1	4	4	2
New Mexico	94	115	75	100	103	98	118	75	69	48
New York	28	45	39	33	57	41	30	78	49	40
North Dakota	51	52	22	23	54	72	165	236	217	135
Ohio	27	36	31	27	28	56	66	147	116	80
Oklahoma	104	187	109	209	253	278	334	601	672	302
Pennsylvania	11	33	30	81	307	513	657	993	765	402
South Dakota	1	2	6	5	4	9	4	13	19	7
Tennessee	21	18	29	57	58	75	120	143	105	45
Texas	841	999	714	795	774	743	696	618	702	385
Utah	18	72	41	34	47	68	123	83	86	44
Virginia	9	5	14	10	2	7	20	53	14	0
Washington	0	3	0	0	0	0	0	2	0	0
West Virginia	28	76	89	41	146	200	215	285	250	134
Wyoming	143	179	151	141	130	132	119	86	79	45
Federal Offshore	107	105	69	83	84	77	59	67	118	87
TOTAL U.S.	2,286	3,142	2,384	2,644	3,404	4,136	4,623	5,187	4,974	3,065

Source: IHS.

Note: Data include oil wells, gas wells, and dry holes and may not total due to Federal Offshore data duplication.

DEVELOPMENT WELLS DRILLED

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	152	346	246	371	405	416	407	505	131	250
Alaska	128	164	179	165	193	155	121	133	25	135
Arizona	0	0	0	0	0	0	0	1	0	0
Arkansas	155	227	144	216	278	299	417	470	1,048	1,107
California	2,113	2,181	1,925	1,928	2,161	2,234	2,464	2,343	2,640	1,603
Colorado	955	1,392	1,332	1,511	1,892	2,506	2,845	3,269	3,790	2,431
Florida	4	0	1	0	0	1	0	0	1	1
Illinois	328	367	289	308	277	379	411	353	434	232
Indiana	53	117	81	145	125	128	72	80	134	93
Kansas	911	1,099	902	1,339	1,542	1,867	2,709	2,770	3,634	2,011
Kentucky	729	865	891	752	573	680	805	850	885	712
Louisiana	1,031	1,217	790	1,003	1,188	1,381	1,569	1,565	1,714	1,138
Michigan	374	414	337	353	403	505	524	450	450	194
Mississippi	192	242	168	240	237	255	253	280	241	144
Missouri	14	6	0	1	0	0	0	0	0	0
Montana	418	406	388	644	504	682	863	672	427	209
Nebraska	11	13	14	16	32	46	34	132	163	49
Nevada	1	3	2	0	0	0	0	0	1	1
New Mexico	1,461	1,574	1,200	1,526	1,686	1,812	1,914	1,763	1,619	1,014
New York	70	77	54	46	77	133	227	288	339	203
North Dakota	121	158	154	199	168	227	322	278	500	473
Ohio	547	690	493	493	525	539	637	684	890	521
Oklahoma	2,176	2,982	2,351	2,783	2,884	3,248	3,671	2,992	3,507	1,813
Oregon	0	0	0	0	0	0	0	0	1	4
Pennsylvania	1,591	2,232	2,183	2,505	2,290	2,908	3,611	3,210	3,425	2,327
South Dakota	10	9	6	3	8	34	21	36	25	17
Tennessee	165	103	81	198	146	163	168	32	137	73
Texas	6,931	8,052	6,534	8,592	9,522	10,800	12,272	13,784	16,033	9,351
Utah	414	549	383	381	554	709	880	877	1,116	597
Virginia	245	304	291	358	361	318	531	654	621	522
Washington	0	0	0	0	2	0	0	0	0	0
West Virginia	653	887	870	974	1,081	1,212	1,584	1,562	1,576	860
Wyoming	4,744	5,331	3,045	2,768	3,717	4,330	4,024	2,977	2,941	1,841
Federal Offshore	939	952	612	630	615	551	483	415	370	253
TOTAL U.S.	27,001	32,416	25,487	30,189	33,653	39,880	46,499	45,946	50,376	31,347

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

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	169	368	263	394	441	443	440	554	348	290
Alaska	136	178	196	176	206	173	132	148	145	145
Arizona	1	0	1	0	1	4	1	2	0	0
Arkansas	169	250	154	228	304	334	495	830	1,093	1,126
California	2,193	2,271	1,989	1,978	2,221	2,296	2,494	2,367	2,666	1,623
Colorado	1,043	1,529	1,389	1,593	1,992	2,710	3,003	3,440	3,914	2,487
Florida	4	0	1	0	0	3	0	0	1	1
Georgia	0	1	0	0	0	0	0	0	0	0
Illinois	379	414	322	354	324	424	478	437	495	283
Indiana	63	136	93	182	149	163	117	113	213	173
Iowa	0	1	0	0	0	0	0	0	0	0
Kansas	1,162	1,499	1,183	1,631	1,887	2,283	3,161	3,249	4,242	2,434
Kentucky	787	986	1,016	925	842	949	1,294	1,269	1,238	998
Louisiana	1,118	1,281	873	1,075	1,261	1,451	1,633	1,630	1,770	1,171
Michigan	397	439	367	376	430	528	558	482	502	218
Mississippi	225	275	211	281	270	299	293	332	273	163
Missouri	15	9	2	1	0	0	0	0	0	0
Montana	518	583	544	831	752	969	1,118	862	572	257
Nebraska	41	32	31	38	50	75	65	165	234	74
Nevada	4	7	4	3	3	5	1	2	5	3
New Mexico	1,556	1,689	1,275	1,624	1,789	1,906	2,028	1,838	1,688	1,062
New York	96	123	92	78	136	160	242	350	388	243
North Dakota	172	210	176	222	221	300	487	519	717	608
Ohio	573	725	520	515	549	577	684	806	1,006	601
Oklahoma	2,279	3,170	2,460	2,992	3,135	3,524	3,995	3,588	4,179	2,115
Oregon	0	0	0	0	0	0	0	0	1	4
Pennsylvania	1,601	2,263	2,212	2,575	2,496	3,344	4,260	4,169	4,190	2,729
South Dakota	11	11	12	8	12	41	25	48	44	24
Tennessee	186	119	107	252	202	234	285	71	242	118
Texas	7,779	9,052	7,240	9,378	10,284	11,532	13,409	14,392	16,735	9,736
Utah	433	621	424	416	601	777	1,005	961	1,202	641
Virginia	254	309	305	368	363	324	545	705	635	522
Washington	0	1	0	0	2	0	0	2	0	0
West Virginia	681	963	958	1,015	1,225	1,408	1,791	1,824	1,826	994
Wyoming	4,886	5,509	3,196	2,911	3,843	4,460	4,134	3,061	3,020	1,886
Federal Offshore	1,135	1,158	758	807	786	716	638	555	488	340
TOTAL U.S.	29,287	35,558	27,871	32,833	37,057	44,016	51,122	51,133	55,350	34,412

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

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	502	494	481	485	502	557	493	488	506	507
Alaska	2,243	2,304	2,310	2,283	2,384	2,505	2,465	2,402	2,479	2,518
Arizona	28	27	24	24	21	23	25	22	24	23
Arkansas	2,244	5,498	4,385	2,718	2,143	2,138	2,505	2,487	1,494	1,488
California	46,654	47,148	46,811	47,060	47,666	48,239	49,705	50,591	52,268	51,866
Colorado	5,400	5,322	5,272	5,133	5,140	5,088	5,049	4,999	5,038	4,942
Florida	79	73	72	96	67	76	65	64	66	59
Kansas	42,358	41,774	41,629	41,261	40,167	40,024	40,349	40,782	41,661	41,792
Louisiana	19,604	18,530	17,996	17,991	17,569	17,463	17,999	17,751	18,156	17,315
Michigan	3,688	3,845	3,672	3,790	3,761	3,887	3,847	3,875	3,755	3,774
Mississippi	1,742	1,768	1,616	1,664	1,685	1,647	1,788	1,937	2,082	3,872
Montana	3,741	4,409	3,662	3,713	3,918	4,052	4,272	4,873	5,033	4,535
Nebraska	1,270	1,250	1,224	1,222	1,224	1,211	1,229	1,211	1,234	1,199
Nevada	69	69	71	71	68	71	68	74	75	71
New Mexico	18,809	19,512	19,420	19,652	20,034	20,553	21,219	21,644	22,134	22,563
New York	3,627	2,876	3,213	3,117	3,095	3,270	2,767	3,190	2,816	2,632
North Dakota	3,418	3,481	4,224	3,519	3,779	3,506	3,512	4,841	4,198	4,565
Ohio	16,760	17,277	17,529	17,165	17,147	17,436	17,867	16,192	17,742	17,015
Oklahoma	61,074	60,923	58,088	53,530	52,326	51,869	54,408	51,160	41,382	38,502
Pennsylvania	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,390
South Dakota	144	144	143	143	145	162	153	163	151	145
Texas	163,487	161,943	158,410	154,932	152,693	152,045	153,455	154,569	158,433	160,173
Utah	2,142	2,201	2,163	2,217	2,433	2,685	2,953	3,107	3,351	3,548
West Virginia	1,263	1,708	2,188	1,469	2,099	2,115	2,107	2,613	2,485	2,284
Wyoming	11,910	11,921	11,716	11,688	11,743	12,147	12,813	12,094	12,011	11,798
Federal Offshore	4,240	4,235	4,127	3,957	3,840	3,631	3,146	3,554	3,574	3,289
TOTAL U.S.	416,496	418,732	410,446	398,900	395,649	396,400	404,259	404,683	402,148	405,865

Source: IHS. Total includes onshore and offshore counts.

* State Data

PRODUCING NATURAL GAS WELLS

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	3,698	3,891	4,130	4,460	4,784	5,122	5,523	5,728	6,070	6,214
Alaska	NA	NA	NA	NA	NA	NA	NA	NA	190	203
Arizona	7	7	8	6	7	4	5	5	5	4
Arkansas	3,336	3,454	3,510	3,704	3,959	4,298	4,481	4,955	5,913	6,652
California	1,359	1,484	1,416	1,467	1,497	1,579	1,715	1,806	1,840	1,841
Colorado	16,824	18,137	19,280	20,821	22,693	25,570	28,407	31,920	36,805	39,296
Kansas	18,069	16,684	17,827	16,998	17,740	18,417	19,891	20,978	21,908	22,140
Kentucky	10,225	10,541	11,038	11,510	12,298	11,754	12,771	16,140	13,727	0
Louisiana	13,907	8,405	8,250	8,367	8,734	9,385	10,679	11,245	11,879	12,859
Michigan	7,234	7,642	7,957	8,282	8,524	9,009	9,444	9,792	10,050	10,349
Mississippi	765	913	992	1,151	1,284	1,469	1,574	1,714	1,786	2,112
Montana	4,115	4,419	4,603	4,864	5,299	5,716	6,200	6,206	6,277	6,705
Nebraska	99	102	104	108	112	115	117	195	328	356
New Mexico	23,213	24,506	25,454	26,687	28,160	29,723	31,246	32,535	33,625	34,163
New York	5,713	6,120	5,544	6,517	6,707	6,661	6,764	7,138	7,391	7,401
North Dakota	92	100	97	111	133	208	371	303	347	350
Ohio	22,011	22,585	22,426	22,613	22,212	22,151	23,123	20,507	23,384	22,631
Oklahoma	26,297	27,829	29,077	30,551	32,214	34,081	36,358	38,164	39,800	39,817
Oregon	18	18	16	16	16	14	13	12	21	23
Pennsylvania	NA	NA	NA	NA	NA	NA	NA	NA	NA	32,076
South Dakota	58	58	58	58	60	60	62	64	84	87
Texas	61,388	64,760	66,747	70,056	74,550	79,879	86,272	93,126	100,631	102,471
Utah	2,353	2,792	3,118	3,392	3,715	4,171	4,781	5,257	6,040	6,323
Virginia	2,682	2,891	3,142	3,421	3,856	4,238	5,007	5,748	6,322	7,068
West Virginia	29,977	39,465	40,846	39,763	41,309	44,172	41,364	47,476	44,974	47,569
Wyoming	11,115	15,705	19,269	21,099	23,749	26,475	29,875	31,747	33,628	33,294
Federal Offshore	4,628	4,672	4,374	4,277	4,137	3,878	3,367	3,487	3,255	2,756
TOTAL U.S.	269,183	287,180	299,283	310,299	327,749	348,333	369,410	396,248	402,553	444,760

Source: IHS. Data not available for certain states.

* Alaska is not included as produced natural gas is re-injected in order to maintain reservoir pressure.

* Previous year data may be revised.

CRUDE OIL PRODUCTION

<i>(thous. bbls.)</i>	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	5,983	5,415	5,163	4,970	4,662	5,197	5,276	4,951	5,560	5,054
Alaska	355,149	351,466	359,496	362,371	335,740	335,740	269,150	262,427	248,800	236,522
Arizona	55	58	61	45	50	48	53	41	50	45
Arkansas	6,454	6,873	6,470	6,586	5,845	5,388	5,292	5,249	5,791	5,202
California	271,027	260,545	255,195	247,393	239,485	228,811	222,874	217,986	214,120	206,195
Colorado	13,884	13,209	12,771	12,682	12,014	11,764	11,357	10,756	10,875	10,192
Florida	4,624	4,406	3,644	3,263	2,875	2,585	2,349	2,080	1,985	696
Illinois	10,906	10,198	11,127	11,707	10,699	8,899	10,324	9,609	9,430	9,099
Indiana	2,035	2,073	1,969	1,870	1,729	1,595	1,714	1,723	1,855	1,803
Kansas	34,238	33,957	33,056	33,711	33,802	33,897	35,621	36,434	39,575	39,448
Kentucky	1,545	1,490	1,381	1,347	1,210	1,215	1,181	2,618	1,034	1,004
Louisiana	75,860	71,204	60,626	58,658	56,983	50,835	49,443	52,528	48,626	47,487
Michigan	7,502	7,070	6,583	6,230	5,763	5,744	5,686	5,394	6,023	5,846
Mississippi	18,564	18,040	16,781	15,678	15,635	16,402	16,103	19,034	20,859	21,915
Montana	15,719	16,172	16,940	19,309	24,674	32,655	36,027	34,815	31,480	27,771
Nebraska	2,953	2,911	2,746	2,810	2,520	2,405	2,297	2,333	2,389	2,234
Nevada	621	571	553	492	463	446	426	410	436	455
New Mexico	61,659	60,957	58,293	57,004	56,723	54,530	53,661	53,300	54,648	56,133
New York	0	0	0	94	110	92	188	267	294	228
North Dakota	32,042	30,653	29,876	28,413	30,142	34,092	36,763	42,249	58,384	75,200
Ohio	4,935	5,532	4,917	4,521	4,264	4,250	4,372	3,958	4,175	3,572
Oklahoma	62,930	61,248	58,543	56,770	54,899	52,288	53,947	51,093	53,234	48,999
Oregon	0	0	0	0	0	0	0	0	0	0
Pennsylvania	NA	NA	NA	NA	NA	NA	NA	NA	NA	783
South Dakota	1,162	1,246	1,209	1,239	1,356	1,415	1,394	1,653	1,642	1,646
Texas	400,930	380,943	365,891	359,907	351,459	347,614	346,079	341,763	352,904	349,087
Utah	14,156	13,913	12,610	12,089	13,718	15,298	15,965	16,957	18,438	19,646
West Virginia	538	706	571	768	586	676	788	1,030	987	446
Wyoming	52,987	48,963	46,020	43,174	41,689	41,452	42,287	41,992	40,054	38,489
Federal Offshore	470,192	473,252	496,663	505,364	476,795	427,167	431,321	427,571	395,233	543,395
TOTAL U.S.	1,928,649	1,883,071	1,869,155	1,858,465	1,785,890	1,722,500	1,661,939	1,650,220	1,628,881	1,758,592
DAILY AVG.	5,270	5,159	5,121	5,092	4,879	4,719	4,553	4,521	4,450	4,818

Source: IHS.

Notes: Daily Average derived from IHS data.

NATURAL GAS PRODUCTION

(MMcf)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	396,775	381,831	370,977	355,701	324,437	301,634	290,530	264,468	252,449	230,405
Alaska	NA	NA	NA	NA	NA	NA	NA	NA	NA	149,289
Arizona	281	239	236	183	218	154	522	590	457	626
Arkansas	149,085	149,662	147,897	153,236	170,222	182,452	192,991	262,629	442,536	674,387
California	86,347	89,748	78,277	83,695	75,362	81,952	90,504	89,845	84,317	80,584
Colorado	758,839	803,229	912,289	997,085	1,062,396	1,120,614	1,217,865	1,273,254	1,476,152	1,536,385
Kansas	528,307	490,685	464,540	431,149	405,594	386,067	378,032	371,782	379,647	362,162
Kentucky	76,073	77,031	81,344	83,452	85,668	79,419	85,840	95,247	95,013	0
Louisiana	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	1,471,968
Michigan	215,038	203,038	192,482	178,082	170,023	161,614	159,295	151,701	145,875	137,571
Mississippi	110,869	132,500	142,950	157,847	170,157	183,103	206,269	268,328	331,699	336,382
Montana	64,740	74,416	79,235	78,092	87,046	91,456	93,199	88,833	78,197	78,366
Nebraska	861	871	894	1,183	1,217	939	898	1,282	2,814	2,713
New Mexico	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	1,176,047
New York	18,476	30,181	36,252	35,725	45,785	53,535	39,741	54,586	46,221	40,309
North Dakota	12,896	14,744	14,485	12,823	13,329	13,150	17,216	18,546	21,099	18,338
Ohio	74,125	72,225	70,426	68,428	66,562	60,451	62,021	55,657	61,208	57,949
Oklahoma	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	1,671,430
Oregon	1,596	1,115	840	734	468	457	624	371	663	818
Pennsylvania	NA	NA	NA	NA	NA	NA	NA	NA	NA	226,017
South Dakota	598	538	510	523	509	428	438	453	1,222	1,752
Texas	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	6,913,702
Utah	244,989	265,032	260,714	257,510	264,789	281,368	321,626	348,601	403,310	408,665
Virginia	71,458	71,468	76,828	80,086	85,752	89,217	102,798	112,224	127,373	140,700
West Virginia	161,940	190,798	194,328	183,091	195,084	215,145	205,051	234,103	237,956	252,895
Wyoming	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	2,399,101
Fed. Offshore	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	1,914,239
TOTAL U.S.	17,505,967	17,943,976	17,452,158	17,514,132	17,474,227	17,121,757	17,637,562	18,460,111	19,709,570	20,282,800

Source: IHS. Data not available for certain states. Data is dry natural gas production.

* Alaska data is not included as produced natural gas is re-injected in order to maintain reservoir pressure.

PRODUCING MARGINAL OIL WELLS

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	295	305	300	304	320	387	320	308	317	323
Alaska	101	136	145	151	140	144	153	163	177	161
Arizona	25	24	22	23	19	22	24	21	23	22
Arkansas	2,002	5,334	4,141	2,427	1,910	1,925	2,256	2,264	1,266	1,277
California	30,194	31,274	31,314	31,770	33,010	34,338	36,161	37,433	39,453	39,521
Colorado	4,504	4,454	4,455	4,344	4,384	4,334	4,331	4,302	4,304	4,252
Florida	9	7	13	33	11	15	8	12	12	38
Illinois	5,500	5,102	5,166	5,107	5,148	4,964	5,270	7,062	7,109	7,092
Indiana	1,142	1,114	1,108	1,043	1,051	995	1,061	1,790	1,792	1,796
Kansas	41,716	41,141	40,933	40,607	39,386	39,250	39,602	39,921	40,575	40,657
Kentucky	1,060	1,034	995	981	965	947	994	1,375	1,415	1,424
Louisiana	14,894	15,737	15,377	15,587	15,129	15,288	15,680	15,533	16,086	15,301
Michigan	3,306	3,520	3,386	3,502	3,508	3,665	3,640	3,689	3,590	3,588
Mississippi	864	867	793	822	850	883	965	1,033	1,126	1,141
Montana	2,810	3,465	2,714	2,731	2,817	2,853	2,943	2,945	3,066	3,085
Nebraska	1,190	1,172	1,154	1,140	1,177	1,157	1,182	1,152	1,178	1,131
Nevada	35	38	39	42	40	45	45	51	49	45
New Mexico	15,324	15,893	15,916	16,181	16,602	17,114	17,777	18,278	18,576	18,792
New York	NA	NA	NA	2,249	2,164	1,966	2,077	2,279	2,513	2,340
North Dakota	2,035	2,085	2,819	2,163	2,412	2,164	2,183	2,249	2,321	2,359
Ohio	14,812	15,251	15,762	15,162	15,308	15,360	15,803	16,225	15,679	14,839
Oklahoma	56,384	56,346	53,846	49,700	48,542	47,937	48,269	47,029	35,010	34,118
Pennsylvania	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,827
South Dakota	57	54	52	61	64	75	71	70	54	48
Texas	146,200	145,415	142,031	139,807	138,498	138,295	140,374	142,134	145,240	146,530
Utah	1,315	1,360	1,421	1,442	1,582	1,756	1,982	2,116	2,367	2,553
West Virginia	1,143	1,544	2,016	1,201	1,722	1,480	1,689	1,975	2,124	1,946
Wyoming	9,248	9,360	9,237	9,355	9,473	9,911	10,528	9,775	9,688	9,404
Federal Offshore	630	669	707	640	648	755	621	609	676	583
TOTAL U.S.	356,795	362,701	355,862	348,575	346,876	348,021	356,209	361,793	355,786	359,193

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.)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	703	748	752	754	740	809	706	693	708	698
Alaska	185	252	288	243	264	193	322	287	364	350
Arizona	30	39	34	32	24	37	40	27	37	32
Arkansas	3,103	4,095	3,212	2,881	3,042	3,046	2,882	2,898	1,895	1,875
California	62,439	63,431	62,603	62,889	64,825	66,663	69,810	71,058	73,049	71,214
Colorado	3,768	3,881	4,212	4,199	4,188	4,028	3,983	3,666	3,848	3,713
Florida	23	20	35	46	27	25	20	37	28	26
Illinois	5,551	5,068	5,227	5,267	5,104	4,249	5,159	5,791	5,732	5,702
Indiana	1,186	1,178	1,102	1,063	1,020	916	1,085	1,372	1,272	1,308
Kansas	25,835	25,504	25,250	25,016	24,607	24,541	25,301	24,810	25,673	25,709
Kentucky	804	799	753	698	701	677	671	773	740	761
Louisiana	10,617	10,342	10,043	9,773	9,547	10,029	9,543	9,915	9,781	9,398
Michigan	3,304	3,460	3,367	3,374	3,427	3,443	3,425	3,289	3,395	3,289
Mississippi	1,997	1,994	1,855	1,966	2,010	2,121	2,207	2,324	2,522	2,514
Montana	3,413	3,457	3,344	3,350	3,352	3,508	3,531	3,540	3,676	3,685
Nebraska	1,981	1,857	1,826	1,777	1,842	1,711	1,676	1,575	1,620	1,568
Nevada	71	89	92	90	91	103	117	130	114	110
New Mexico	20,064	20,549	20,516	20,825	21,045	21,788	22,312	22,646	22,850	22,752
New York	NA	NA	NA	94	110	92	193	270	294	228
North Dakota	4,572	4,658	4,648	4,815	4,531	4,601	4,811	4,955	5,224	5,144
Ohio	4,042	4,364	4,152	3,871	3,669	3,716	3,732	3,723	3,740	3,147
Oklahoma	41,413	41,037	39,526	37,636	36,618	34,834	35,189	34,423	23,856	22,138
Pennsylvania	NA	NA	NA	NA	NA	NA	NA	NA	NA	783
South Dakota	198	194	166	208	217	229	212	179	138	139
Texas	153,498	151,564	147,152	145,505	142,581	142,740	145,877	147,623	151,286	151,249
Utah	2,872	2,875	3,010	3,110	3,391	3,908	4,168	4,816	5,332	5,535
West Virginia	330	351	370	343	384	422	463	581	582	421
Wyoming	13,785	13,611	13,344	13,383	13,289	13,448	13,349	13,409	13,375	12,696
Fed Offshore	1,398	1,574	1,675	1,527	1,528	1,889	1,372	1,416	1,679	1,313
TOTAL U.S.	367,182	366,993	358,554	354,735	352,166	353,755	362,155	366,229	362,808	357,497

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

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	2,199	2,403	2,591	2,889	3,187	3,639	4,164	4,563	5,023	5,280
Arizona	3	3	5	2	2	2	2	2	2	1
Arkansas	2,019	2,149	2,208	2,383	2,519	2,736	2,892	2,996	3,346	3,406
California	685	676	693	701	720	777	836	899	987	1,014
Colorado	12,675	13,356	13,738	14,729	16,105	18,560	20,477	22,939	25,918	27,794
Kansas	10,967	10,223	12,044	11,891	13,531	15,083	17,196	18,776	20,006	20,501
Kentucky	10,074	10,405	10,868	11,329	12,129	11,616	12,617	8,444	NA	NA
Louisiana	10,026	4,343	4,164	4,219	4,330	4,645	4,851	5,146	5,454	5,684
Michigan**	4,853	5,670	6,278	7,028	7,454	8,143	8,663	9,220	9,808	10,066
Mississippi	389	447	506	684	808	933	1,063	1,194	1,286	1,299
Montana	3,634	3,854	4,002	4,262	4,533	4,790	5,272	5,334	5,625	6,187
Nebraska	97	99	101	105	108	111	114	176	325	353
New Mexico	14,010	14,853	15,601	16,501	17,636	19,191	20,460	21,995	23,068	23,602
New York	5,590	6,147	6,282	6,165	6,421	6,429	6,640	6,898	7,076	7,085
North Dakota	64	65	60	73	79	104	156	188	210	222
Ohio	21,402	22,060	21,908	22,159	21,845	22,082	24,992	20,001	22,862	22,083
Oklahoma	16,135	17,605	18,924	20,321	21,716	23,393	24,955	26,707	28,135	28,692
Oregon	10	9	9	10	11	11	10	9	15	16
Pennsylvania	NA	NA	NA	NA	NA	NA	NA	NA	NA	31,095
South Dakota	56	58	57	57	59	60	62	63	72	70
Texas	36,844	39,070	40,295	42,003	44,648	47,299	50,945	54,462	58,127	60,479
Utah	1,055	1,268	2,105	1,650	1,802	2,105	2,394	2,657	2,925	3,028
Virginia	2,003	2,260	2,440	2,702	3,085	3,438	4,117	4,802	5,251	5,906
West Virginia	29,366	38,704	40,052	38,843	40,451	43,242	40,544	46,507	43,844	46,225
Wyoming	4,664	7,162	9,591	11,127	13,443	15,526	18,060	19,592	20,554	19,788
Federal Offshore	739	771	818	809	796	890	723	735	892	713
TOTAL U.S.*	189,559	203,660	214,694	222,642	237,418	254,805	272,205	275,861	290,811	330,589

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.

PRODUCING MARGINAL NATURAL GAS WELLS

MARGINAL NATURAL GAS PRODUCTION

(Mmcf)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	33,921	37,297	39,224	44,565	47,877	53,491	60,237	66,314	71,335	73,061
Arizona	25	4	60	37	28	30	26	21	17	17
Arkansas	28,215	28,883	30,392	30,260	33,485	36,095	38,061	39,750	43,409	42,460
California	7,831	8,619	8,730	8,910	9,084	9,713	10,121	11,405	12,000	12,090
Colorado	129,869	141,619	153,957	172,671	195,752	219,516	244,131	259,934	292,816	308,372
Kansas	129,410	149,617	165,687	178,241	202,041	222,510	240,039	250,779	264,373	262,210
Kentucky	69,400	71,156	74,072	75,513	78,805	73,076	78,304	NA	NA	87,570
Louisiana	40,557	38,498	38,898	39,256	40,053	43,622	47,268	50,148	54,796	58,113
Michigan	87,452	98,625	104,662	114,313	117,082	123,811	124,848	128,265	126,805	120,181
Mississippi	5,837	7,091	8,692	11,223	12,821	13,051	14,679	16,053	16,358	15,122
Montana	30,391	32,251	35,138	37,138	37,945	40,639	43,571	43,672	47,551	53,071
Nebraska	744	803	790	871	833	745	809	1,282	2,741	2,713
New Mexico	181,395	189,482	198,763	210,703	229,172	247,133	261,701	274,675	288,130	293,344
New York	12,181	12,152	11,770	11,015	10,892	10,885	11,582	12,755	13,604	13,949
North Dakota	440	446	570	679	967	1,726	2,262	22,64	2,342	2,509
Ohio	56,226	57,316	56,954	55,331	53,979	50,250	52,003	47,802	52,085	48,039
Oklahoma	211,217	225,447	240,546	257,931	270,739	288,113	304,086	320,222	331,595	333,142
Oregon	154	79	112	113	117	138	158	134	258	234
Pennsylvania	NA	NA	NA	NA	NA	NA	NA	NA	NA	101,553
South Dakota	523	538	473	483	466	428	438	420	488	416
Texas	421,242	445,556	456,420	479,600	508,976	538,749	583,720	623,976	664,340	681,630
Utah	15,922	19,656	21,997	25,294	27,679	30,932	35,244	36,895	41,334	44,089
Virginia	28,446	31,964	35,408	36,924	40,141	43,994	53,268	61,584	70,117	78,627
West Virginia	126,932	157,127	162,879	152,036	161,214	175,204	167,499	189,735	185,857	188,459
Wyoming	56,571	88,040	110,670	136,706	157,753	174,246	187,707	195,370	191,676	167,793
Federal Offshore	9,158	10,033	10,078	9,897	9,722	11,030	8,802	9,109	10,182	7,556
TOTAL U.S.*	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	2,908,750

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 2009

State	No. of Wells Drilled	Footage Drilled	Depth per Well (ft.)	Total Cost	Cost per Well (\$)	Cost per Foot
Alabama	290	989,477	3,412	841,082,000	2,900,283	850.03
Alaska	145	925,097	6,380	4,384,800,000	30,240,000	4,739.83
Arkansas	1,126	8,672,201	7,702	697,060,000	619,059	80.38
California	1,623	4,152,472	2,559	3,411,560,000	2,102,009	821.57
Colorado	2,487	18,591,942	7,476	20,652,165,000	8,304,047	1,110.81
Florida	1	1,104	1,104	2,219,000	2,219,000	2,009.96
Illinois	283	691,527	2,444	243,457,000	860,272	352.06
Indiana	173	377,917	2,184	314,446,000	1,817,607	832.05
Kansas	2,434	7,073,884	2,906	1,342,065,000	551,382	189.72
Kentucky	998	3,124,937	3,131	1,372,570,000	1,375,321	439.23
Louisiana	1,171	11,765,905	10,048	12,749,454,000	10,887,664	1,083.59
Michigan	218	533,740	2,448	543,092,000	2,491,248	1,017.52
Mississippi	163	1,372,437	8,420	1,574,984,000	9,662,479	1,147.58
Montana	257	899,147	3,499	600,029,000	2,334,743	667.33
Nebraska	74	332,000	4,486	282,905,000	3,823,041	852.12
Nevada	3	16,827	5,609	9,404,000	3,134,667	558.86
New Mexico	1,062	6,900,008	6,497	4,287,778,000	4,037,456	621.42
New York	243	620,047	2,552	270,163,000	1,111,782	435.71
North Dakota	608	8,883,675	14,611	8,285,084,000	13,626,783	932.62
Ohio	601	2,224,880	3,702	751,411,000	1,250,268	337.73
Oklahoma	2,115	15,327,420	7,247	9,459,509,000	4,472,581	617.16
Oregon	4	11,920	2,980	7,508,000	1,877,000	629.87
Pennsylvania	2,729	10,699,677	3,921	6,204,182,000	2,273,427	579.85
South Dakota	24	91,978	3,832	66,813,000	2,783,875	726.40
Tennessee	118	364,187	3,086	142,698,000	1,209,305	391.83
Texas	9,736	80,227,058	8,240	59,016,205,000	6,061,648	735.61
Utah	641	4,961,458	7,740	5,169,546,000	8,064,814	1,041.94
Virginia	522	1,665,699	3,191	738,473,000	1,414,699	443.34
West Virginia	994	5,469,885	5,503	2,499,794,000	2,514,883	457.01
Wyoming	1,886	11,927,286	6,324	14,411,853,000	7,641,492	1,208.31
Federal Offshore	340	3,421,044	10,062	25,247,502,000	74,257,359	7,380.06
Exploratory	2,890	19,124,545	6,617	21,550,154,058	7,456,801	1,126.83
Developmental	30,179	193,192,291	6,402	164,029,659,767	5,435,225	849.05
TOTAL U.S.	33,069	212,316,836	6,420	185,579,813,825	5,611,897	874.07

Source: IHS.

CRUDE OIL REVENUES

(thous. \$.)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	288,927	216,362	201,879	228,197	288,714	418,677	475,658	510,000	729,774	397,192
Alaska	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	12,813,555
Arizona	1,576	1,287	1,363	1,252	1,917	2,605	3,383	2,892	4,692	2,620
Arkansas	193,015	165,657	157,896	191,995	246,862	322,656	358,122	387,492	552,642	306,798
California	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	11,620,044
Colorado	533,177	410,026	448,493	648,257	892,277	1,263,025	1,492,282	1,557,808	2,184,103	1,482,195
Florida	134,339	NA	NA	NA	NA	NA	NA	NA	NA	NA
Illinois	343,477	239,786	287,296	340,354	425,520	522,598	616,283	630,927	880,862	504,444
Indiana	58,555	47,436	45,970	52,929	67,006	88,112	102,666	113,067	170,787	100,393
Kansas	970,478	799,674	772,543	973,514	1,326,556	1,806,486	2,165,442	2,439,357	3,644,711	2,147,236
Kentucky	91,719	66,892	60,251	69,059	93,817	125,356	136,492	169,558	240,351	144,121
Louisiana	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	4,078,018
Michigan	222,345	167,339	170,946	190,370	250,848	297,815	310,113	347,791	595,852	332,701
Mississippi	520,508	412,627	398,312	455,644	635,176	877,318	1,030,079	1,400,185	2,090,849	1,354,193
Missouri	2,667	1,854	2,045	2,169	3,269	4,239	4,989	4,862	8,312	5,001
Montana	429,207	368,707	383,620	553,711	952,616	1,730,144	2,055,693	2,251,347	2,837,788	1,466,568
Nebraska	82,707	69,164	65,640	78,876	96,319	126,393	133,622	146,529	210,648	114,032
Nevada	14,084	9,798	9,904	12,098	14,807	19,078	24,836	26,194	39,885	24,352
New Mexico	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	3,490,214
New York*	6,006	3,778	4,112	4,163	6,698	10,764	20,260	26,395	42,375	18,126
North Dakota*	922,349	746,323	748,481	860,714	1,224,352	1,867,871	2,262,555	2,942,287	5,566,976	4,285,810
Ohio*	180,747	136,450	135,750	159,132	221,392	302,212	340,990	371,431	551,097	328,746
Oklahoma	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	3,790,538
Pennsylvania	43,200	40,208	55,512	71,780	100,200	215,388	232,137	255,710	349,400	210,902
South Dakota*	32,971	29,982	29,087	35,799	52,109	74,405	72,279	104,529	148,352	84,144
Tennessee	9,093	7,708	6,020	8,260	13,162	14,765	10,956	18,565	31,655	14,207
Texas	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	23,177,948
Utah	446,095	367,421	326,446	378,212	575,651	898,821	1,069,227	1,219,610	1,904,587	1,151,394
West Virginia	37,968	27,401	31,164	37,432	51,391	84,011	110,309	105,883	151,447	103,955
Wyoming	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	2,684,716
TOTAL U.S.	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	110,254,185

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. \$.)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	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	1,019,645
Alaska**	807,831	938,166	986,831	1,180,314	1,613,895	2,314,590	2,574,952	2,440,521	2,944,486	1,163,436
Arizona	1,288	1,265	783	1,918	1,695	1,596	3,593	3,917	3,708	2,271
Arkansas	897,688	832,352	717,089	876,827	1,062,552	1,383,270	1,737,984	1,867,611	3,893,925	2,332,235
California	1,811,350	2,618,320	1,051,799	1,699,569	1,807,542	2,366,396	2,039,402	2,033,399	2,484,410	1,095,237
Colorado	2,763,455	3,138,071	2,258,760	4,591,234	5,622,814	8,418,829	7,361,265	5,678,549	2,702,429	4,812,015
Florida	11,424	NA	NA	NA	NA	NA	NA	NA	NA	NA
Illinois	387	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indiana	3,155	3,490	4,071	7,920	21,426	28,560	17,555	20,843	35,634	19,954
Kansas	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	1,120,030
Kentucky	257,682	390,636	265,660	397,740	495,802	634,718	841,676	701,462	960,857	NA
Louisiana	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	5,915,679
Maryland	128	133	132	216	213	342	366	NA	NA	NA
Michigan	723,597	954,375	592,868	950,318	999,772	1,383,894	NA	2,241,113	1,532,255	602,645
Mississippi	292,241	422,636	345,719	686,912	369,348	451,962	414,032	492,182	850,441	328,826
Montana	198,618	253,959	205,719	320,881	436,397	709,021	624,033	668,371	843,968	310,454
Nebraska	2,753	2,609	1,806	4,609	4,753	4,922	NA	7,557	19,170	8,637
New Mexico	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	5,767,127
New York*	66,589	138,935	111,552	208,872	321,429	429,300	399,137	486,237	449,861	188,814
North Dakota	210,538	193,204	155,741	196,596	315,202	441,479	360,380	365,149	525,286	222,040
Ohio*	426,808	454,486	466,274	564,282	601,665	754,213	668,941	668,641	668,681	387,273
Oklahoma	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	6,557,953
Oregon	3,266	4,063	3,323	3,275	1,817	1,930	2,745	2,155	4,147	3,284
Pennsylvania	346,500	446,209	538,098	NA	NA	NA	NA	NA	NA	NA
South Dakota	5,881	3,762	3,024	5,493	6,001	7,380	6,163	7,184	13,053	NA
Tennessee	4,704	7,200	6,991	9,412	14,490	21,010	18,055	26,135	41,595	20,981
Texas	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	25,980,287
Utah	883,255	999,374	546,731	1,101,718	1,456,558	2,156,757	1,912,277	1,452,939	2,666,431	1,501,268
Virginia*	284,034	329,965	453,915	397,612	NA	NA	NA	NA	NA	NA
West Virginia	855,810	790,583	654,457	814,718	928,892	1,563,234	1,617,050	1,585,922	1,822,189	1,163,518
Wyoming	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	7,940,115
TOTAL U.S.	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	79,287,260

Source: EIA wellhead price and marketed production data.

* State data used when EIA not available.

** Alaska natural gas is reinjected.

ABANDONMENTS/WELL SUMMARY

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	60	38	19	34	29	19	78	20	2	NA
Arizona	0	0	0	0	0	4	0	0	0	NA
Arkansas	142	92	66	108	69	76	73	125	119	NA
California	1,647	1,478	2,521	2,501	1,629	2,496	1,999	2,119	1,519	NA
Colorado	178	193	152	215	212	206	282	104	946	NA
Florida	0	0	0	0	0	0	1	2	4	NA
Illinois	647	699	715	659	554	557	853	735	609	NA
Indiana	80	101	127	102	80	27	159	374	275	NA
Kansas	844	1,877	2,020	2,270	1,473	2,379	1,318	885	955	NA
Kentucky	310	262	289	312	263	236	503	240	288	NA
Louisiana	933	1,169	1,127	1,500	898	951	750	791	207	NA
Michigan	166	196	220	177	196	136	87	108	79	NA
Mississippi	128	93	144	106	90	59	34	91	8	NA
Missouri	12	1	4	12	4	7	11	27	0	NA
Montana	202	160	124	169	113	159	227	222	197	NA
Nebraska	67	85	108	81	55	19	15	20	32	NA
New Mexico	223	338	389	263	752	640	420	575	572	NA
New York	94	59	106	115	83	75	19	110	122	NA
North Dakota	78	89	57	40	50	28	71	18	15	NA
Ohio	598	624	581	500	572	818	577	598	492	NA
Oklahoma	1,247	975	1,139	1,056	956	1,407	1,090	1,090	3,546	NA
Pennsylvania	420	324	358	328	306	320	100	323	342	NA
South Dakota	0	0	1	2	0	2	0	0	0	NA
Tennessee	138	57	53	86	50	25	34	250	0	NA
Texas	5,486	6,305	6,579	6,902	6,718	6,160	6,417	5,030	733	NA
Utah	36	42	22	17	57	73	65	125	105	NA
Virginia	0	9	9	60	45	44	98	0	0	NA
West Virginia	314	420	246	327	335	308	285	276	0	NA
Wyoming	172	139	329	241	517	570	635	706	0	NA
TOTAL U.S.	14,222	15,825	17,505	18,183	16,106	17,782	16,201	14,970	11,169	NA

Source: IOGCC.

Note: 2009 data for oil and gas wells plugged and abandoned as of January 1, 2009. Some state data may be estimated.

WELL SUMMARY

ABANDONMENTS/WELL SUMMARY

Year	Horizontal Wells	Direct Wells	Vertical Wells
2000	1,377	2,886	25,206
2001	1,556	3,921	30,900
2002	1,346	2,993	24,343
2003	1,884	3,868	27,996
2004	2,599	4,767	30,829
2005	3,529	4,958	36,311
2006	4,640	4,916	42,350
2007	6,353	5,428	40,590
2008	8,293	6,366	40,753
2009	6,729	4,442	21,856

SEVERANCE AND PRODUCTION TAXES

(thous. \$)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	68,341	107,024	53,235	92,695	101,184	132,300	177,280	139,380	192,752	111,004
Alaska	759,000	558,772	519,368	1,093,356	651,900	863,000	1,199,500	2,208,400	6,879,000	3,112,000
Arizona	6,060	7,026	6,510	8,377	9,899	10,022	7,979	6,761	5,488	3,214
Arkansas	9,476	9,546	6,608	8,355	9,802	15,078	15,078	14,928	21,427	28,209
California	215,696	239,921	189,306	214,473	188,753	268,796	328,876	471,185	467,130	400,000
Colorado	24,641	54,384	48,914	23,613	107,145	134,050	196,668	126,244	139,551	273,028
Florida	6,046	8,258	5,197	5,469	6,084	8,278	9,527	9,288	13,386	7,995
Indiana	653	572	567	590	845	1,119	1,215	1,350	2,082	1,213
Kansas	56,900	109,232	59,895	84,212	116,677	148,855	148,855	131,217	421,100	388,600
Kentucky	11,414	20,678	14,610	17,800	22,170	28,630	42,586	38,538	55,036	33,172
Louisiana	354,314	478,805	454,429	480,749	677,320	714,729	885,402	981,229	1,017,654	895,855
Maryland	1	2	1	1	1	4	4	3	777	5
Michigan	40,012	61,279	35,967	54,651	56,186	66,749	88,143	67,796	103,928	44,434
Mississippi	23,751	11,817	28,201	43,413	62,631	84,409	6,809	8,364	129,821	109,514
Montana	43,770	92,818	50,304	75,454	114,218	180,077	204,129	242,776	327,932	172,189
Nebraska	2,108	1,868	1,455	1,845	2,191	2,926	2,796	2,894	5,855	2,874
Nevada	341	174	182	248	356	527	577	576	907	538
New Mexico	345,300	355,370	479,109	571,862	737,200	926,884	1,169,271	987,921	1,282,483	1,361,237
North Dakota	71,275	66,800	62,300	66,846	73,914	157,500	166,147	185,970	534,700	403,100
Ohio	3,090	2,884	2,799	2,900	2,691	2,615	2,554	2,452	2,501	2,569
Oklahoma	410,412	745,236	417,103	600,980	701,156	875,653	1,168,598	1,001,328	1,266,655	1,174,211
Oregon	146	119	145	89	72	79	90	117	364	305
South Dakota	1,051	1,566	1,239	1,522	1,658	2,507	3,256	3,153	5,527	5,894
Tennessee	532	380	498	592	592	813	1,041	1,838	1,952	1,342
Texas	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	2,292,249
Utah	17,313	42,106	20,603	28,689	39,356	57,116	77,074	70,178	70,919	9,265
West Virginia	18,048	34,549	28,382	30,475	41,544	53,557	84,947	80,294	87,606	91,505
Wyoming	567,445	581,532	327,497	370,381	504,731	713,456	660,461	595,031	947,880	488,568
TOTAL U.S.	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	11,414,100

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.)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	27.63	23.18	23.39	28.97	38.79	53.26	63.16	71.10	96.71	55.25
Alaska	23.76	18.35	19.54	23.93	33.17	47.21	57.03	63.81	90.19	54.41
Arizona*	26.72	21.82	21.63	26.63	36.86	52.09	61.51	67.26	90.24	56.96
Arkansas	26.98	21.82	21.50	26.57	36.67	50.86	58.67	64.25	90.91	53.07
California	24.72	20.00	21.69	26.29	34.32	48.26	54.78	64.73	90.21	56.11
Colorado	28.85	24.82	25.29	30.71	40.38	55.34	63.80	67.04	90.80	52.33
Florida	29.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Illinois	28.14	23.76	23.84	29.10	38.74	51.20	59.70	65.66	93.48	55.47
Indiana	27.91	23.46	23.43	28.38	38.18	51.02	59.31	65.47	91.92	55.65
Kansas	28.16	23.56	23.61	28.68	39.18	53.41	60.74	66.85	92.08	54.41
Kentucky	26.47	22.53	22.49	27.21	36.82	49.45	58.33	63.60	90.87	55.24
Louisiana	28.85	24.36	24.68	30.31	40.08	53.57	63.88	71.18	100.74	59.10
Michigan	28.12	22.69	23.68	29.18	39.14	53.67	60.89	66.87	95.75	56.39
Mississippi	26.23	21.13	22.11	27.46	37.03	49.58	59.35	68.65	94.60	58.29
Missouri*	28.37	20.37	21.53	26.45	37.15	49.87	57.34	60.77	83.96	53.20
Montana	27.82	23.16	22.76	28.66	38.53	52.66	56.69	64.64	89.96	52.96
Nebraska	27.97	23.67	23.62	28.63	38.42	52.38	57.77	62.78	87.99	50.93
Nevada*	22.68	17.13	17.91	24.54	31.98	42.68	58.30	64.20	91.48	53.52
New Mexico	28.80	23.72	24.11	29.52	39.25	52.84	61.74	68.94	96.23	57.08
New York	28.60	22.76	24.92	28.91	39.40	54.64	63.51	69.46	109.78	53.47
North Dakota	28.19	23.55	24.15	29.27	39.30	52.38	56.69	65.30	88.68	53.75
Ohio	27.49	22.55	22.61	28.18	38.27	53.47	62.89	68.09	96.43	56.35
Oklahoma	29.08	24.68	24.49	29.72	39.95	54.46	63.11	69.31	96.15	56.56
Pennsylvania	28.80	24.82	24.86	29.60	39.48	54.57	64.02	70.00	96.76	59.56
South Dakota	28.18	23.89	23.96	28.94	38.40	50.65	51.85	62.78	87.42	50.75
Tennessee*	26.28	21.96	21.89	26.56	36.46	45.57	57.06	65.37	92.02	53.01
Texas	28.60	23.41	23.77	29.13	38.79	52.61	61.31	68.30	96.85	57.40
Utah	28.53	24.09	23.87	28.88	39.35	53.98	59.70	62.48	86.58	50.22
Virginia*	NA	NA	NA	26.23	NA	NA	NA	NA	NA	NA
West Virginia	27.12	22.35	22.55	28.06	38.38	53.75	63.07	67.27	95.07	55.77
Wyoming	26.89	21.55	21.96	26.63	35.10	45.63	53.25	58.34	86.07	52.30
TOTAL U.S.	26.72	21.84	22.51	27.56	36.77	50.28	59.69	66.52	94.02	56.35

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)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	3.99	4.23	3.48	5.93	6.66	9.28	7.57	7.44	9.65	4.32
Alaska	1.76	1.99	2.13	2.41	3.42	4.75	5.79	5.63	7.39	2.93
Arizona*	3.50	4.12	2.60	4.33	5.12	6.86	5.70	5.98	7.09	3.19
Arkansas	5.23	4.99	4.43	5.17	5.68	7.26	6.43	6.61	8.72	3.43
California	4.81	6.93	2.92	5.04	5.65	7.45	6.47	6.62	8.38	3.96
Colorado	3.67	3.84	2.41	4.54	5.21	7.43	6.12	4.57	6.94	3.21
Florida*	1.76	NA	NA	NA	NA	NA	NA	NA	NA	NA
Illinois*	2.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indiana	3.51	3.28	3.11	5.41	6.30	9.11	6.01	5.78	7.58	4.05
Kansas	3.21	3.66	2.61	4.33	4.94	6.51	5.61	5.69	6.85	3.16
Kentucky	3.16	4.78	3.01	4.54	5.26	6.84	8.83	7.35	8.42	NA
Louisiana	3.68	3.99	3.20	5.64	5.96	8.72	6.93	7.02	8.73	3.82
Maryland	3.75	4.15	5.98	4.50	6.25	7.43	7.63	NA	NA	NA
Michigan*	2.44	3.47	2.16	4.01	3.85	5.30	NA	8.46	5.63	3.92
Mississippi	3.30	3.93	3.06	5.13	5.83	8.54	6.84	6.70	8.80	3.73
Montana	2.84	3.12	2.39	3.73	4.51	6.57	5.53	5.72	7.50	3.16
Nebraska	2.26	2.16	1.52	3.17	3.22	4.29	NA	4.86	6.22	2.97
New Mexico	3.43	3.89	2.68	4.56	4.97	6.91	6.18	6.88	8.40	4.17
New York	3.75	5.00	3.03	5.78	6.98	7.78	7.13	8.85	8.94	4.21
North Dakota	3.94	3.53	2.73	3.53	5.73	8.40	6.52	6.67	8.55	3.74
Ohio	4.06	4.54	4.52	5.90	6.65	9.03	7.75	7.59	7.88	4.36
Oklahoma	3.63	4.03	2.94	4.97	5.52	7.21	6.32	6.24	7.56	3.53
Oregon	2.69	3.66	3.97	4.48	3.89	4.25	4.42	5.27	5.33	4.00
Pennsylvania*	2.31	3.41	3.41	NA	NA	NA	NA	NA	NA	NA
South Dakota	3.56	3.42	2.95	4.98	5.49	7.44	6.40	7.22	7.94	NA
Tennessee	4.09	3.60	3.41	5.22	6.90	9.55	6.78	6.63	8.85	3.83
Texas	3.93	4.12	3.16	5.18	5.83	7.55	6.60	6.98	8.51	3.81
Utah*	3.28	3.52	1.99	4.11	5.24	7.16	5.49	3.86	6.15	3.38
Virginia*	3.97	4.29	3.16	4.65	NA	NA	NA	NA	NA	NA
West Virginia*	3.24	4.12	3.44	4.34	4.71	7.07	7.17	6.86	7.42	4.40
Wyoming	3.34	3.49	2.70	4.13	4.96	6.86	5.85	4.65	6.86	3.40
TOTAL U.S.	3.68	4.00	2.95	4.88	5.46	7.33	6.39	6.25	7.96	3.67

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
2009	59.49	59.17	59.29

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	46.1	258.9
2007	234.5	45.6	280.1
2008	277.5	49.1	326.6
2009	188.8	46.2	235.0

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
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
2009	19,121	175,214	135,044	753,358	119,114	40,137	12,198	99,998	1,354,182

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 Jet Fuel	Fuel Oil		Average Of Four Products		Crude Oil
			Distillate (¢/gal.)	Residual	(¢/gal.)	(\$/bbl.)	
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	258.60	302.00	297.00	186.60	261.05	109.64	94.04
2009	176.70	171.90	171.30	170.70	163.38	68.62	56.35

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.)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	105.4	103.9	108.1	107.1	117.1	115.3	124.0	122.8	117.0	109.7
Alaska	48.5	50.7	48.7	50.0	58.9	58.7	60.3	57.0	49.2	45.4
Arizona	94.6	95.7	97.8	99.3	103.6	108.7	110.9	109.9	106.8	99.9
Arkansas	73.1	70.4	70.1	69.6	71.7	70.7	68.5	69.1	67.8	64.8
California	654.1	661.7	685.8	701.2	693.1	705.3	709.1	713.3	678.9	657.2
Colorado	83.5	86.9	83.3	86.7	93.7	92.6	96.0	97.6	94.1	89.8
Connecticut	81.2	76.6	70.8	79.8	86.0	82.7	75.0	73.2	67.3	65.7
Delaware	24.9	26.7	26.1	26.6	25.5	26.9	23.2	22.9	21.6	17.7
Dist.of Columbia	6.3	6.1	6.1	5.4	5.6	5.3	4.3	4.2	3.6	3.7
Florida	354.2	352.7	345.4	351.4	382.7	390.1	371.0	359.1	330.3	310.8
Georgia	193.7	193.0	192.5	196.1	206.3	213.3	204.6	199.7	187.8	196.1
Hawaii	40.6	41.5	44.8	46.7	49.1	51.3	51.6	52.9	42.6	40.8
Idaho	30.7	28.6	29.1	25.6	28.8	29.5	30.6	30.6	29.3	28.4
Illinois	248.6	243.0	237.7	243.2	255.7	276.1	262.0	261.0	251.5	239.6
Indiana	164.9	151.9	161.6	166.6	164.7	163.3	161.9	159.0	152.4	146.2
Iowa	82.4	78.8	82.4	76.4	86.5	88.3	88.9	85.4	83.0	83.6
Kansas	79.3	73.7	71.1	83.8	81.8	64.8	65.0	81.0	77.5	76.8
Kentucky	130.8	123.0	133.0	125.8	139.0	138.1	137.0	136.1	127.7	125.3
Louisiana	327.7	325.8	331.5	300.9	310.5	297.9	305.1	286.6	261.7	264.6
Maine	47.1	40.7	41.3	47.3	46.6	47.6	42.9	43.0	38.7	38.0
Maryland	102.1	103.9	100.7	104.7	108.8	112.5	103.4	103.0	99.4	101.7
Massachusetts	138.2	135.4	130.8	133.1	135.5	136.8	123.5	124.9	120.4	110.2
Michigan	201.5	194.0	198.1	193.4	197.4	198.4	183.3	183.9	170.0	163.6
Minnesota	125.6	125.0	126.3	129.2	133.0	134.1	130.2	131.2	125.5	117.2
Mississippi	85.0	89.1	80.4	89.1	88.5	84.2	86.0	84.6	78.0	75.9
Missouri	129.0	137.0	138.5	140.5	142.8	142.2	141.1	141.9	134.5	127.4
Montana	29.7	28.5	29.3	28.6	32.2	33.5	35.6	38.2	33.6	32.0
Nebraska	42.0	41.0	42.9	43.3	44.5	43.2	43.3	43.8	42.3	40.4
Nevada	43.4	45.9	43.8	44.4	48.3	51.2	54.0	53.6	49.9	46.2
New Hampshire	34.0	31.1	32.8	36.6	37.7	35.4	32.1	32.0	32.1	31.1
New Jersey	226.6	232.2	229.5	222.9	229.8	239.9	225.6	238.8	227.0	201.7
New Mexico	45.8	45.3	45.8	46.1	47.8	47.7	49.6	53.2	49.8	47.8
New York	309.0	297.6	287.6	319.0	337.1	331.0	292.6	295.4	283.2	266.8
North Carolina	180.8	177.0	172.8	176.4	183.8	185.8	181.0	182.1	180.3	165.0
North Dakota	22.5	26.4	23.3	22.6	25.0	25.7	25.4	26.5	26.3	24.1
Ohio	242.3	240.2	244.4	251.7	250.7	247.5	248.8	248.5	238.0	221.9
Oklahoma	95.4	106.4	101.6	99.6	98.2	105.6	111.5	104.5	103.7	91.2
Oregon	69.2	65.0	67.3	65.3	67.9	69.3	70.6	70.0	68.4	68.4
Pennsylvania	259.7	264.4	260.2	267.3	276.0	279.2	267.3	264.5	252.6	243.7
Rhode Island	17.8	18.3	18.0	18.6	18.1	17.9	17.2	16.9	17.3	18.1
South Carolina	88.5	95.1	94.9	97.4	112.3	108.1	109.2	106.2	103.7	103.7
South Dakota	22.1	20.9	22.7	21.3	21.6	22.4	22.1	22.7	22.1	22.7
Tennessee	130.8	136.8	142.7	144.6	148.8	153.1	152.6	151.4	139.9	143.8
Texas	1,125.0	1,113.7	1,151.0	1,160.7	1,200.1	1,162.5	1,199.9	1,208.0	1,121.8	1,142.4
Utah	49.2	48.2	47.6	49.9	50.6	53.0	56.9	55.6	53.0	49.6
Vermont	16.6	17.0	16.2	16.3	17.9	17.3	17.0	16.7	15.7	16.3
Virginia	164.6	168.9	164.2	177.1	189.7	189.9	181.5	183.2	170.4	160.3
Washington	152.6	142.6	136.2	133.6	136.9	141.1	146.0	152.2	145.8	140.9
West Virginia	39.4	48.3	50.2	47.7	53.0	51.9	53.0	52.4	49.4	40.0
Wisconsin	124.9	116.3	117.6	112.2	118.3	117.4	114.4	114.8	111.6	104.0
Wyoming	26.2	28.9	27.8	28.9	28.4	28.9	30.6	31.2	31.8	29.9
Total U.S.	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	6,851.6

Source: Energy Information Administration.

NATURAL GAS CONSUMPTION

(MMcf.)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Alabama	353,620	332,711	379,456	350,983	382,663	353,193	391,103	420,399	410,275	461,939
Alaska	427,289	408,960	419,131	414,234	406,319	432,972	373,849	369,966	341,887	342,266
Arizona	205,466	240,812	250,734	272,921	349,622	321,584	358,068	392,954	399,188	368,927
Arkansas	251,339	227,943	242,325	246,916	215,124	213,609	233,869	226,440	234,900	244,190
California	2,509,130	2,464,565	2,273,192	2,269,405	2,406,889	2,248,256	2,315,720	2,395,674	2,405,264	2,328,507
Colorado	367,967	463,738	459,397	436,253	440,378	470,321	450,832	504,775	504,784	520,206
Connecticut	159,723	146,278	177,587	154,075	162,642	168,067	172,682	180,181	166,800	184,303
Delaware	48,391	50,113	52,216	46,177	48,057	46,904	43,190	48,155	48,162	50,152
Dist. of Columbia	33,474	29,802	32,898	32,814	32,227	32,085	29,049	32,966	31,881	32,398
Florida	541,943	543,143	689,337	689,986	734,178	778,209	891,611	917,245	942,700	1,055,368
Georgia	413,887	351,109	383,546	379,761	394,986	412,560	420,469	441,107	425,042	462,918
Hawaii	2,841	2,818	2,734	2,732	2,774	2,795	2,783	2,850	2,701	2,608
Idaho	72,701	80,279	71,481	69,868	75,335	74,540	75,709	81,937	88,515	84,919
Illinois	1,030,645	951,616	1,049,879	998,486	953,207	969,642	893,998	965,591	1,000,501	946,017
Indiana	570,585	501,711	539,034	527,037	526,701	531,111	496,303	535,795	551,423	506,623
Iowa	232,573	224,336	226,457	230,161	226,819	241,340	238,454	293,274	325,772	315,186
Kansas	312,369	272,500	304,992	281,346	256,779	255,123	264,253	286,538	282,904	284,013
Kentucky	225,174	208,974	227,920	223,226	225,470	234,080	211,048	229,798	225,295	206,534
Louisiana	1,536,732	1,306,502	1,426,433	1,307,548	1,346,429	1,309,730	1,292,762	1,376,702	1,313,694	1,263,647
Maine	44,779	95,733	101,536	70,832	72,565	57,835	49,605	56,530	61,194	69,823
Maryland	212,147	178,376	196,276	197,024	194,725	202,509	182,294	201,053	196,069	197,314
Massachusetts	343,324	349,103	393,194	403,991	372,532	378,068	370,664	408,704	406,719	395,919
Michigan	963,155	906,001	966,354	924,819	916,629	913,827	803,336	798,126	779,603	731,474
Minnesota	362,031	340,911	371,583	371,261	359,898	367,825	352,570	388,335	425,351	394,140
Mississippi	300,653	332,589	343,890	265,842	282,051	301,663	307,305	364,068	355,007	364,381
Missouri	284,772	283,793	275,628	262,529	263,945	268,040	252,697	272,536	296,059	264,631
Montana	67,959	65,051	69,532	68,473	66,829	68,355	73,879	73,822	76,422	75,587
Nebraska	126,965	121,984	120,333	118,922	115,011	119,070	129,885	150,809	171,005	162,988
Nevada	189,207	176,835	176,596	185,846	214,984	227,149	249,608	254,406	264,596	275,197
New Hampshire	24,950	23,398	24,901	54,147	61,172	70,484	62,549	62,132	71,178	59,935
New Jersey	605,298	564,923	598,602	612,890	620,806	602,388	547,206	618,965	614,908	620,852
New Mexico	266,479	266,283	235,098	221,021	223,575	220,717	223,635	234,236	246,665	240,389
New York	1,244,837	1,171,898	1,199,632	1,101,618	1,098,056	1,080,215	1,097,160	1,187,060	1,180,357	1,142,156
North Carolina	233,717	207,108	235,376	218,642	224,796	229,715	223,032	237,354	243,090	244,962
North Dakota	56,533	60,819	66,726	60,907	59,986	53,050	53,336	59,453	63,096	54,562
Ohio	891,003	804,243	830,958	848,388	825,753	825,961	742,360	806,350	792,246	738,596
Oklahoma	538,626	491,458	508,298	540,103	538,576	582,536	624,400	658,379	687,988	656,657
Oregon	224,893	229,665	202,164	212,556	234,997	232,562	222,608	251,927	268,484	248,778
Pennsylvania	702,883	634,794	675,583	689,992	696,175	691,591	659,754	752,401	749,883	804,075
Rhode Island	88,427	95,607	87,805	78,456	72,609	80,764	77,204	87,972	89,256	92,766
South Carolina	160,438	141,785	184,803	146,641	163,787	172,032	174,806	175,701	170,076	190,541
South Dakota	37,940	37,077	41,577	43,881	41,679	42,555	40,739	53,938	65,257	66,185
Tennessee	270,664	255,990	255,515	257,315	231,133	230,338	221,626	221,118	229,934	216,505
Texas	4,421,871	4,278,662	4,328,007	4,074,323	3,932,971	3,526,378	3,459,578	3,543,065	3,568,041	3,384,370
Utah	165,023	159,299	163,379	154,125	155,891	160,275	187,399	219,700	224,220	214,163
Vermont	10,427	7,919	8,367	8,400	8,685	8,372	8,056	8,867	8,624	8,637
Virginia	268,791	237,853	258,202	262,970	277,434	299,746	274,175	319,913	299,364	319,067
Washington	286,676	312,114	233,716	249,599	262,485	264,754	263,395	272,613	298,140	310,111
West Virginia	147,871	141,090	146,455	126,986	122,267	117,136	113,085	115,973	111,479	105,275
Wisconsin	393,617	359,784	385,310	394,711	383,316	410,250	372,462	398,370	409,378	387,064
Wyoming	101,314	98,569	112,872	115,358	107,060	108,314	108,481	140,912	142,705	141,337
Total U.S.	23,333,121	22,238,624	23,007,017	22,276,502	22,388,975	22,010,596	21,684,641	23,097,139	23,268,050	22,839,160

Source: Energy Information Administration. Total Consumption - includes Lease & Plant Fuel and Pipeline and Distribution Use.

ENERGY CONSUMPTION BY STATE

ENERGY CONSUMPTION BY STATE

Trillion BTU	Petroleum	Natural Gas	Coal	Nuclear	Renewable Energy	Other*	Total	% Petroleum and Natural Gas
Alabama	583.9	473.9	631	415.4	272.9	-470.3	1,906.8	55.48
Alaska	255.7	344	14.5	0	16.3	0	630.4	95.13
Arizona	520.8	376.7	413.3	320.7	103.5	-280.7	1,454.3	61.71
Arkansas	343.1	248.1	264.1	158.7	126.5	-85.7	1,054.8	56.05
California	3,508.3	2,391.4	52.4	332.2	712.7	1,008.5	8,005.5	73.70
Colorado	471.8	522.4	350.2	0	75.3	32.5	1,452.2	68.46
Connecticut	341.3	187.8	26.3	174.2	38.2	20.7	788.4	67.11
Delaware	91.4	51.7	33.9	0	5.8	71.9	254.7	56.18
Dist. Of Columbia	19.2	33.5	.3	0	0.6	128.7	182.4	28.89
Florida	1,623.6	1,081.8	581.5	304.6	273.5	430.1	4,295.2	62.99
Georgia	1,027.5	475.4	723.4	331.4	215.4	176.2	2,949.3	50.96
Hawaii	230.7	0.2	19	0	20	0	269.8	85.58
Idaho	151	86.8	8.4	0	141.6	121	509	46.72
Illinois	1,243.3	946.4	1,015	998.7	172.7	-561	3,815.1	57.40
Indiana	767.9	511	1,365.4	0	119.4	-141	2,622.6	48.76
Iowa	415.4	284	444.6	48.9	291.5	-66	1,418.5	49.31
Kansas	384	289.4	356.1	91.7	66	-102.9	1,084.3	62.10
Kentucky	663.2	214	937.1	0	80.1	-17.8	1,876.6	46.74
Louisiana	1,374.5	1,300.3	252.5	175.5	118.2	145.3	3,366.3	79.46
Maine	200.8	73	1.7	0	144.9	10.1	430.5	63.60
Maryland	527	204.4	266.9	152.2	60.7	218.2	1,429.3	51.17
Massachusetts	575.7	408.6	92.1	56.4	61.7	231.6	1,426	69.03
Michigan	825.6	746.8	735.9	228.6	158.4	1.3	2,696.6	58.31
Minnesota	604.3	405.5	328.7	129.6	199.8	141.5	1,809.5	55.81
Mississippi	407.5	371.3	141.7	115	55.9	47.2	1,138.7	68.39
Missouri	658	266.5	765.6	107.2	83.2	-62.7	1,817.8	50.86
Montana	171.9	76.4	172.8	0	119.9	-129.6	411.5	60.34
Nebraska	210.3	164.9	249.6	98.7	87.5	-51.9	759.1	49.43
Nevada	242.7	283.7	83.8	0	54.6	42.7	707.6	74.39
New Hampshire	158.8	62	32.8	92.2	44.5	-87.3	303	72.87
New Jersey	1,078.6	638.4	59.6	359.1	54.8	203.2	2,393.6	71.73
New Mexico	247.3	247.1	306.2	0	35.6	-166.2	670.1	73.78
New York	1,423.4	1,166.1	156	454.8	445.2	172.9	3,818.5	67.81
North Carolina	839.6	250.6	678.7	427.3	179.2	170.1	2,545.4	42.83
North Dakota	125.7	51.9	423.3	0	63.8	-237.9	426.8	41.61
Ohio	1,165.2	768.3	1,267.3	159.1	114.1	159.7	3,633.7	53.21
Oklahoma	488.7	678.3	373.3	0	89.2	-138.9	1,490.6	78.29
Oregon	361.7	254.7	33.2	0	416.9	0.1	1,066.5	57.80
Pennsylvania	1,280.6	833.7	1,223.9	808.8	155.4	-648.4	3,654.1	57.86
Rhode Island	95.8	94.9	0	0	6.5	22.1	219.3	86.96
South Carolina	541.8	197	372	545.5	122.9	-198.2	1,581	46.73
South Dakota	116.6	66.3	37.5	0	106.5	32.9	359.9	50.82
Tennessee	752	222.6	477.7	282	196.8	204.9	2,136	45.63
Texas	5,445.7	3,462.2	1,497.9	434.1	356.6	101	11,297.4	78.85
Utah	266.9	223.6	365	0	21.4	-122.4	754.5	65.01
Vermont	82.2	8.7	0	56.1	29.1	-18	158.1	57.50
Virginia	834	330.3	334.6	295.1	144.9	446.9	2,385.8	48.80
Washington	756.6	319.4	84	69.4	846.8	-43.3	2,032.9	52.93
West Virginia	212.6	113.9	742.9	0	41.3	-395.1	715.6	45.63
Wisconsin	532.1	392.5	425.9	132.7	161.4	100	1,744.6	53.00
Wyoming	164.9	145.7	473.9	0	36	-300.2	520.3	59.70
Total U.S.	35,411.4	23,348.2	19,693.2	8,356	7,545.7	116.2	94,446.9	62.21

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 - 2009

State	Mining Oil & Gas Extraction	Refining Petroleum Refining	Oils & Greases	Transportation Pipelines, Except Gas	Pipeline Construction	Gas Distribution	Wholesale Petroleum Products	Retail Gasoline Stations	Total Industry
Alabama	1,903	ND	1,639	710	1,359	2,392	3,085	17,152	28,240
Alaska	12,949	ND	410	ND	434	ND	530	1,726	16,049
Arizona	764	12	3	262	367	ND	1,925	15,787	19,120
Arkansas	6,267	566	500	870	1,417	838	2,193	11,587	24,238
California	18,882	13,779	937	2,947	7,396	1,265	10,240	50,156	107,200
Colorado	19,206	606	58	990	2,684	1,188	2144	12,263	39,359
Connecticut	25	ND	299	173	206	1,325	5,096	5,945	13,069
Delaware	20	ND	ND	ND	33	ND	755	2,248	3,056
Dist. of Columbia	ND	ND	ND	ND	ND	ND	ND	419	419
Florida	841	188	268	251	687	1,867	6,035	36,821	46,982
Georgia	206	60	203	386	1,654	1,745	3,953	27,254	35,461
Hawaii	14	ND	510	ND	91	ND	671	2,469	3,755
Idaho	94	ND	ND	ND	123	ND	778	5,561	6,556
Illinois	2,579	3,102	1,578	1,087	1,771	4,879	5,266	25,994	46,273
Indiana	368	ND	3,380	514	1,839	2,035	3,476	21,177	32,901
Iowa	13	ND	332	377	229	520	1,695	17,625	20,791
Kansas	7,396	1,423	261	835	1,438	1,889	2,134	9,614	24,990
Kentucky	2,286	ND	422	1,004	806	785	3,036	17,472	25,811
Louisiana	47,803	9,530	1,425	2,438	18,069	1,711	3,768	18,239	111,683
Maine	ND	ND	394	98	30	57	3,821	7,097	11,497
Maryland	629	97	96	ND	1,309	668	3,099	9,411	15,309
Massachusetts	110	ND	816	161	268	3,070	6,909	11,506	22,840
Michigan	2,401	484	670	1,018	1,108	2,375	4,750	23,186	35,992
Minnesota	127	ND	2,149	367	1,869	1,682	2,858	22,400	31,452
Mississippi	4,984	2,034	105	676	2,047	953	2,224	14,436	27,562
Missouri	227	134	439	299	779	3,132	3,653	24,362	33,025
Montana	2,229	1,069	25	441	355	355	879	5,386	10,739
Nebraska	235	ND	12	166	913	1,729	1,219	8,657	12,931
Nevada	200	ND	186	ND	203	ND	739	7,830	9,158
New Hampshire	29	ND	226	ND	ND	206	2,734	4,676	7,871
New Jersey	303	2,279	505	327	1,085	3,952	5,472	14,807	28,730
New Mexico	13,275	ND	866	222	1,786	1,197	1,546	7,732	26,737
New York	1,404	33	355	363	1,660	4,135	12,669	28,412	49,031
North Carolina	487	124	185	171	919	2,061	6,216	27,143	37,306
North Dakota	5,300	ND	ND	338	579	ND	1,692	4,162	12,071
Ohio	5,068	1,627	698	1,001	2,947	3,816	5,083	32,991	53,403
Oklahoma	42,068	1,642	476	1,907	2,280	4,277	3,523	14,330	77,365
Oregon	59	ND	396	ND	241	1,222	1,567	9,893	13,378
Pennsylvania	7,868	2,460	2,636	2,006	2,132	3,757	10,632	36,485	68,288
Rhode Island	ND	ND	ND	ND	79	ND	1,057	1,841	2,977
South Carolina	185	17	148	ND	122	874	2,275	16,699	20,320
South Dakota	160	7	17	65	170	202	1,190	5,831	7,642
Tennessee	589	ND	1,006	372	532	1,801	3,316	21,544	29,160
Texas	199,084	22,031	838	14,017	26,304	7,240	16,125	69,480	395,470
Utah	5,149	987	ND	300	544	920	905	9,244	18,383
Vermont	21	ND	ND	ND	ND	ND	1,675	3,793	5,489
Virginia	1,718	ND	ND	391	1,513	1,353	4,570	31,539	41,084
Washington	288	1,809	84	206	907	1,382	3,199	13,582	21,457
West Virginia	5,323	ND	890	1,598	985	927	1,000	9,016	19,739
Wisconsin	65	ND	143	329	637	751	3,271	22,931	28,127
Wyoming	15,391	1,011	28	820	3,214	252	698	3,918	25,332
Total U.S.	438,076	75,588	14,675	42,285	98,501	116,785	178,567	824,261	1,849,098

INDUSTRY EMPLOYMENT-2009

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 pro- ducing 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
<i>Worldwide rank from BP and World Oil for wells drilled.</i>	

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
= 5,631 cubic feet of natural gas
= 0.22 ton of bituminous coal

One cubic foot of natural gas:

= 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
= 25,437 cubic feet of natural gas

One metric ton of crude oil:

= 2,205 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 - A range of petroleum products heavier than gasoline or jet fuel that includes heating 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) or Natural Gas Plant Liquids - Hydrocarbons, such as LPG or natural gasoline, found with natural gas that are recoverable by absorption, cryogenic expansion or other means.

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 ship fuel and 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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