

The book was found

An Overview Of Unconventional Oil And Natural Gas: Resources And Federal Actions



**Congressional
Research Service**

Informing the legislative debate since 1914

An Overview of Unconventional Oil and Natural Gas: Resources and Federal Actions

Michael Ratner
Specialist in Energy Policy

Mary Tiemann
Specialist in Environmental Policy

January 23, 2014

Congressional Research Service

7-5700

www.crs.gov

R43148

CRS REPORT
Prepared for Members and
Committees of Congress



Synopsis

The United States has seen a resurgence in petroleum production, mainly driven by technology improvements—hydraulic fracturing and directional drilling—developed for natural gas production from shale formations. Application of both of these technologies enabled natural gas to be economically produced from shale and other unconventional formations, and contributed to the United States becoming the world's largest natural gas producer in 2009. Use of these technologies has also contributed to the rise in U.S. oil production over the last few years. In 2009, annual oil production increased over 2008, the first annual rise since 1991, and has continued to increase each year since then. Between October 2007 and October 2013, U.S. monthly crude oil production rose by 2.7 million barrels per day, with about 92% of the increase coming from shale and related tight oil formations in Texas and North Dakota. Other tight oil plays are also being developed, and helped raise the prospect of energy independence, particularly for North America. The rapid expansion of oil and gas extraction using hydraulic fracturing—both in rural and more densely populated areas—has raised concerns about its potential environmental and health impacts. These concerns have focused primarily on potential impacts to groundwater and surface water quality, public and private water supplies, and air quality. States broadly regulate oil and gas exploration and production on non-federal lands. State laws and regulations governing unconventional oil and natural gas development have been evolving across the states in response to changes in production practices, largely in response to the use of high-volume hydraulic fracturing in combination with directional drilling. However, state regulations vary considerably, leading to calls for more federal regulation of unconventional oil and natural gas extraction activities. Although several federal environmental laws can apply to certain activities related to oil and gas production, proposals to expand federal regulation in this area have been highly controversial. Some advocates of a larger federal role point to a wide range of differences among state regulatory regimes, and argue that a national framework is needed to ensure a consistent minimum level of protection for surface and groundwater resources, and air quality. Others argue against more federal involvement, and point to the long-established state oil and natural gas regulatory programs, regional differences in geology and water resources, and concern over regulatory redundancy. The federal role in regulating oil and gas extraction activities—and hydraulic fracturing, in particular—has been the subject of considerable debate and legislative proposals for several years, but legislation has not been enacted. While congressional debate has continued, the Administration has pursued a number of regulatory initiatives related to unconventional oil and gas development under existing statutory authorities. This report focuses on the growth in U.S. oil and

natural gas production driven primarily by tight oil formations and shale gas formations. It also reviews selected federal environmental regulatory and research initiatives related to unconventional oil and gas extraction, including the Bureau of Land Management (BLM) proposed hydraulic fracturing rule and EPA actions.

Book Information

File Size: 1379 KB

Print Length: 52 pages

Simultaneous Device Usage: Unlimited

Publisher: Congressional Research Service (January 23, 2014)

Publication Date: January 23, 2014

Sold by:Â Digital Services LLC

Language: English

ASIN: B00E14YPQ6

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #1,650,328 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #101

inÂ Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Natural Gas #212 inÂ Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Petroleum #324 inÂ Kindle Store > Kindle eBooks > Business & Money > Industries > Oil & Energy

[Download to continue reading...](#)

An Overview of Unconventional Oil and Natural Gas: Resources and Federal Actions Cooking With Coconut Oil Vol. 1 - 50 Coconut Oil Recipes Promoting Health, Wellness, & Beauty - Coconut Oil Cookbook - Coconut Oil Uses - Coconut Oil (Coconut Oil Diet And Recipes) Unconventional Oil and Gas Resources: Exploitation and Development (Emerging Trends and Technologies in Petroleum Engineering) Essential Oils: 50 Essential Oil Dog & Cat Recipes From My Essential Oil Private Collection: Proven Essential Oil Recipes That Work! (Essential Oil Pet Private Collection Book 1) Diffuser Recipes: Essential Oil Diffuser Recipes For Weight Loss, Better Sleep & Fat Loss (Aromatherapy, Essential Oils, Detox, Cleanse, Healthy Living, ... Lavender Oil, Coconut Oil, Tea

Tree Oil) Una conquista arriesgada (Unconventional Courtship and Unconventional Union nÂ° 1)
(Spanish Edition) Coconut Oil and Apple Cider Vinegar: 28 Mind Blowing Uses for Coconut Oil and
Apple Cider Vinegar (The Apple Cider Vinegar and Coconut Oil Bible - Amazing Benefits, Many
Uses, and Natural Cures) Olive Oil: (Free Gift eBook Inside!) How it Heals and Mends the Body,
Beauty and Health Tips of Olive Oil (55 Beneficial Tips on How Olive Oil can Help You Today) 2013
Complete Guide to Hydraulic Fracturing (Fracking) for Shale Oil and Natural Gas: Encyclopedic
Coverage of Production Issues, Protection of Drinking Water, Underground Injection Control (UIC)
Federal Rules of Civil Procedure (2017 Edition): with Advisory Committee Notes, Overview of New
Amendments & Recent Cases on ESI Sanctions Manual de instalaciones hidraulicas, sanitarias,
gas, aire comprimido y vapor/ Manual of Hydraulic, Sanitary, Gas, Compressed Air and Steam
Installation (Spanish Edition) International Fuel Gas Code 2006 (International Fuel Gas Code)
Understanding Oil and Gas Shows and Seals in the Search for Hydrocarbons Operational Aspects
of Oil and Gas Well Testing, Volume 1 (Handbook of Petroleum Exploration and Production) Cases
and Materials on Oil and Gas Law Cases and Materials on Oil and Gas Law (American Casebook
Series) Oil and Gas Decommissioning: Law, Policy and Comparative Practice Handbook of Fire and
Explosion Protection Engineering Principles, Second Edition: for Oil, Gas, Chemical and Related
Facilities A Primer of Oilwell Drilling: A Basic Text of Oil and Gas Drilling Money in the Ground: Oil
and Gas Investments Explained

[Dmca](#)