

Unconventional Oil And Gas Resources Handbook Evaluation And Development

Oil and Gas Resources in China: A Roadmap to 2050 Potential Exploration, Development and Production of Oil and Gas Resources, Vandenberg Air Force Base (AFB), Mineral Resources Management Plan Unconventional Gas Resources Oil and Gas Resources, Reserves, and Productive Capacities Principles of Oil and Gas Production Oil and Gas Resources, Reserves, and Production Capacities High-cost Oil and Gas Resources North American Natural Gas Reserves and Resources Arctic National Wildlife Refuge (ANWR): Oil and gas production in Alaska An Overview of Unconventional Oil and Natural Gas Development of the Oil and Gas Resources of the United Kingdom Annual Report of the Public Printer ... Mineral-resource Assessments in Alaska Oil and gas resource assessment methodology Natural Gas Yuma District Resource Management Plan and Environmental Impact Statement Resources to Reserves 2013 The Politics of Mistrust The Future Supply of Oil and Gas Methods of Estimating the Volume of Undiscovered Oil and Gas Resources Guangdong Liu United States. Federal Energy Administration. Office of Policy and Analysis Roswell Hill Johnson United States. Federal Energy Administration Jerome D. Davis United States. Congress. Senate. Committee on Energy and Natural Resources. Subcommittee on Energy Regulation United States. Congress. House. Committee on Interior and Insular Affairs. Subcommittee on Water and Power Resources Congressional Research Congressional Research Service United States. Government Printing Office Wallace Hall Campbell United States. Congress. House. Committee on Resources. Subcommittee on Energy and Mineral Resources Vaclav Smil United States. Bureau of Land Management. Yuma District Office International Energy Agency Aaron B. Wildavsky Bruce Carlton Netschert

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methodology Natural Gas Yuma District Resource Management Plan and Environmental Impact Statement Resources to Reserves 2013 The Politics of Mistrust The Future Supply of Oil and Gas Methods of Estimating the Volume of Undiscovered Oil and Gas Resources *Guangding Liu United States. Federal Energy Administration. Office of Policy and Analysis Roswell Hill Johnson United States. Federal Energy Administration Jerome D. Davis United States. Congress. Senate. Committee on Energy and Natural Resources. Subcommittee on Energy Regulation United States. Congress. House. Committee on Interior and Insular Affairs. Subcommittee on Water and Power Resources Congressional Research Congressional Research Service United States. Government Printing Office Wallace Hall Campbell United States. Congress. House. Committee on Resources. Subcommittee on Energy and Mineral Resources Vaclav Smil United States. Bureau of Land Management. Yuma District Office International Energy Agency Aaron B. Wildavsky Bruce Carlton Netschert*

as one of the eighteen field specific reports comprising the comprehensive scope of the strategic general report of the chinese academy of sciences this sub report addresses long range planning for developing science and technology in the field of oil and gas resources they each craft a roadmap for their sphere of development to 2050 in their entirety the general and sub group reports analyze the evolution and laws governing the development of science and technology describe the decisive impact of science and technology on the modernization process predict that the world is on the eve of an impending s t revolution and call for china to be fully prepared for this new round of s t advancement based on the detailed study of the demands on s t innovation in china s modernization the reports draw a framework for eight basic and strategic systems of socio economic development with the support of science and technology work out china s s t roadmaps for the relevant eight basic and strategic systems in line with china s reality further detail s t initiatives of strategic importance to china s modernization and provide s t decision makers with comprehensive consultations for the development of s t innovation consistent with china s reality supported by illustrations and tables of data the reports provide researchers government officials and entrepreneurs with guidance concerning research directions the planning process and investment founded in 1949 the chinese academy of sciences is the nation s highest academic institution in natural sciences its major responsibilities are to conduct research in basic and technological sciences to undertake nationwide integrated surveys on natural resources and ecological environment to provide the country with scientific data and consultations for government s decision making to undertake government assigned projects with regard to key s t problems in the process of socio economic development to initiate personnel training and to promote china s high tech enterprises through its active engagement in these areas

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the united states has seen resurgence in petroleum production mainly driven by technology improvements especially hydraulic fracturing and directional drilling developed for natural gas production from shale formations application 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 between january 2008 and may 2014 u s monthly crude oil production rose by 3 2 million barrels per day with about 85 of the increase coming from shale and related tight oil formations in texas and north dakota other tight oil plays are also being developed helping raise the prospect of energy independence especially for north america the rapid expansion of tight oil and shale gas extraction using high volume hydraulic fracturing has raised concerns about its potential environmental and health impacts these concerns include potential direct impacts to groundwater and surface water quality water supplies and air quality in addition some have raised concerns about potential long term and indirect impacts from reliance on fossil fuels and resulting greenhouse gas emissions and influence on broader energy economics this report focuses mainly on actions related to controlling potential direct impacts states are the primary regulators of oil and gas production on non federal lands state laws and regulations governing oil and gas production have been evolving across the states in response to changes in production practices as producers have expanded into tight oil shale gas and other unconventional hydrocarbon formations however state rules vary considerably leading to calls for more federal oversight of unconventional oil and gas extraction activities and hydraulic fracturing specifically although provisions of 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

natural gas is the world's cleanest fossil fuel it generates less air pollution and releases less CO₂ per unit of useful energy than liquid fuels or coals with its vast supplies of conventional resources and nonconventional stores the extension of long distance gas pipelines and the recent expansion of liquefied natural gas trade a truly global market has been created for this clean fuel natural gas fuel for the 21st century discusses the place and prospects of natural gas in modern high energy societies vaclav smil presents a systematic survey of the qualities origins extraction processing and transportation of natural gas followed by a detailed appraisal of its many preferred traditional and potential uses and the recent emergence of the fuel as a globally traded commodity the unfolding diversification of sources particularly hydraulic fracturing and the role of natural gas in national and global energy transitions are described the book concludes with a discussion on the advantages risks benefits and costs of natural gas as a leading if not dominant fuel of the 21st century this interdisciplinary text will be of interest to a wide readership concerned with global energy affairs including professionals and academics in energy and environmental science policy makers consultants and advisors with an interest in the rapidly changing global energy industry

the availability of oil and gas for future generations continues to provoke international debate in 2005 the first edition of resources to reserves found that the known hydrocarbon resources were sufficient to sustain likely growth for the foreseeable future yet the book also predicted that developing oil and gas resources and bringing them to market would become more technically demanding resources to reserves 2013 a comprehensive update to the 2005 edition confirms these earlier findings and investigates whether oil and gas resources can be produced at a reasonable cost and in a timely manner while also protecting environmentally sensitive areas released amid a boom in shale gas and oil development in north america that is transforming the global energy landscape the book surveys the cutting edge technologies needed to find produce and bring these reserves to the market and it reviews the challenges on greenhouse gas emissions associated with fossil fuel production with renewed interest in coal as a potential source of liquid and gaseous fuels it also looks at technology advances for this fossil fuel

these chapters are excellent though not definitive interpretations of the history they selectively cover they offer fresh insightful plausible interpretations of the events and processes they describe for this reason alone this book deserves the serious attention of anyone interested in understanding how energy policy got where it is today understood in terms of players perspectives and social epistemology its contribution as a study about the persistence of policy conflict

under conditions of distrust among the major players is also solid enough because these conditions and consequences are made so arrestingly clear policy sciences volume 14 number 3 june 1982

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