



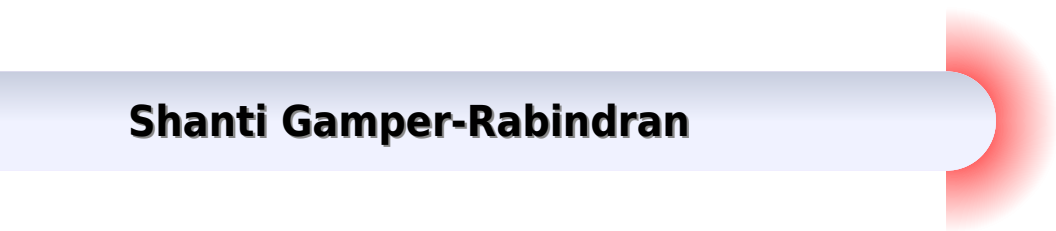
UNDER THE SURFACE

FRACKING, FORTUNES,
AND THE FATE OF THE
MARCELLUS SHALE

TOM WILBER

Under The Surface Fracking Fortunes And The Fate Of The Marcellus Shale

Shanti Gamper-Rabindran



Under The Surface Fracking Fortunes And The Fate Of The Marcellus Shale:

Under the Surface Tom Wilber, 2012-05-08 For the updated paperback edition of *Under the Surface* Tom Wilber has written a new chapter and epilogue covering developments since the book's initial publication. Chief among these are the home rule movement and accompanying social and legal events leading up to an unprecedented ban of fracking in New York state and the outcome of the federal EPA's investigation of water pollution just across the state border in Dimock Pennsylvania. The industry with powerful political allies effectively challenged the federal government's attempts to intervene in drilling communities in Pennsylvania, Wyoming and Texas with water problems. But it met its match in a grassroots movement known as fractivism that sprouted from seeds sown in upstate New York community halls and grew into one of the state's most influential environmental movements since Love Canal. Wilber weaves a narrative tracing the consequences of shale gas development in northeast Pennsylvania and central New York through the perspective of various stakeholders. Wilber's evenhanded treatment explains how the revolutionary process of fracking has changed both access to our domestic energy reserves and the lives of people living over them. He gives a voice to all constituencies including farmers and landowners tempted by the prospects of wealth but wary of the consequences, policymakers struggling with divisive issues concerning free enterprise, ecology and public health, and activists coordinating campaigns based on their respective visions of economic salvation and environmental ruin. Throughout the book Wilber illustrates otherwise dense policy and legal issues in human terms and shows how ordinary people can affect extraordinary events.

Under the Surface Tom Wilber, 2015-09-22 For the updated paperback edition of *Under the Surface* Tom Wilber has written a new chapter and epilogue covering developments since the book's initial publication. Chief among these are the home rule movement and accompanying social and legal events leading up to an unprecedented ban of fracking in New York state and the outcome of the federal EPA's investigation of water pollution just across the state border in Dimock Pennsylvania. The industry with powerful political allies effectively challenged the federal government's attempts to intervene in drilling communities in Pennsylvania, Wyoming and Texas with water problems. But it met its match in a grassroots movement known as fractivism that sprouted from seeds sown in upstate New York community halls and grew into one of the state's most influential environmental movements since Love Canal. Wilber weaves a narrative tracing the consequences of shale gas development in northeast Pennsylvania and central New York through the perspective of various stakeholders. Wilber's evenhanded treatment explains how the revolutionary process of fracking has changed both access to our domestic energy reserves and the lives of people living over them. He gives a voice to all constituencies including farmers and landowners tempted by the prospects of wealth but wary of the consequences, policymakers struggling with divisive issues concerning free enterprise, ecology and public health, and activists coordinating campaigns based on their respective visions of economic salvation and environmental ruin. Throughout the book Wilber illustrates otherwise dense policy and legal issues in human terms and

shows how ordinary people can affect extraordinary events When Fracking Comes to Town Sabina E. Deitrick, Ilia Murtazashvili, 2022-01-15 *When Fracking Comes to Town* traces the response of local communities to the shale gas revolution. Rather than cast communities as powerless to respond to oil and gas companies and their landmen, it shows that communities have adapted their local rules and regulations to meet the novel challenges accompanying unconventional gas extraction through fracking. The multidisciplinary perspectives of this volume's essays tie together insights from planners, legal scholars, political scientists, and economists. What emerges is a more nuanced perspective of shale gas development and its impacts on municipalities and residents. Unlike many political debates that cast fracking in black and white terms, this book's contributors embrace the complexity of local responses to fracking. States adapted legal institutions to meet the new challenges posed by this energy extraction process, while under-resourced municipal officials and local planning offices found creative ways to alleviate pressure on local infrastructure and reduce harmful effects of fracking on the environment. The essays in *When Fracking Comes to Town* tell a story of community resilience with the rise and decline of shale gas production. Contributors: Ennio Piano, Ann M. Eisenberg, Pamela A. Mischen, Joseph T. Palka Jr., Adelyn Hall, Carla Chifos, Teresa C. Rдова, Rebecca Matsco, Anna C. Osland, Carolyn G. Loh, Gavin Roberts, Sandeep Kumar Rangaraju, Frederick Tannery, Larry McCarthy, Erik R. Pages, Mark C. White, Martin Romitti, Nicholas G. McClure, Ion Simonides, Jeremy G. Weber, Max Harleman, Heidi Gorovitz, Robertson.

Fractured Communities Anthony E. Ladd, 2018-03-23 While environmental disputes and conflicts over fossil fuel extraction have grown in recent years, few issues have been as contentious in the twenty-first century as those surrounding the impacts of unconventional natural gas and oil development using hydraulic drilling and fracturing techniques more commonly known as fracking on local communities. In *Fractured Communities*, Anthony E. Ladd and other leading environmental sociologists present a set of crucial case studies analyzing the differential risk perceptions, socio-environmental impacts, and mobilization of citizen protest or quiescence surrounding unconventional energy development and hydraulic fracking in a number of key U.S. shale regions. *Fractured Communities* reveals how this contested terrain is expanding, pushing the issue of fracking into the mainstream of the American political arena.

Environmental Sociology John Hannigan, 2014-03-26 The third edition of John Hannigan's classic undergraduate text has been fully updated and revised to highlight contemporary trends and controversies within global environmental sociology. *Environmental Sociology* offers a distinctive, balanced treatment of environmental issues, reconciling Hannigan's much-cited model of the social construction of environmental problems and controversies with an environmental justice perspective that stresses inequality and toxic threats to local communities.

The Politics of Shale Gas in Eastern Europe Andreas Goldthau, 2018-03-29 Uses a policy regime approach to conduct a comparative analysis of the public policies of shale gas in Eastern Europe.

The Environmental Case Judith A. Layzer, 2015-09-18 Answers to environmental issues are not black and white. Debates around policy are often among those with fundamentally different values and the way that problems and solutions are defined.

plays a central role in shaping how those values are translated into policy The Environmental Case captures the real world complexity of creating environmental policy and this much anticipated Fourth Edition contains fifteen carefully constructed cases Through her analysis Editor Judith Layzer systematically explores the background players contributing factors and outcomes of each case and gives readers insight into some of the most interesting and controversial issues in U S environmental policymaking

The Shale Dilemma Shanti Gamper-Rabindran, 2017-11-30 The US shale boom and efforts by other countries to exploit their shale resources could reshape energy and environmental landscapes across the world But how might those landscapes change Will countries with significant physical reserves try to exploit them Will they protect or harm local communities and the global climate Will the benefits be shared or retained by powerful interests And how will these decisions be made The Shale Dilemma brings together experts working at the forefront of shale gas issues on four continents to explain how countries reach their decisions on shale development Using a common analytical framework the authors identify both local factors and transnational patterns in the decision making process Eight case studies reveal the trade offs each country makes as it decides whether to pursue delay or block development Those outcomes in turn reflect the nature of a country s political process and the power of interest groups on both sides of the issue The contributors also ask whether the economic arguments made by the shale industry and its government supporters have overshadowed the concerns of local communities for information on the effects of shale operations and for tax policies and regulations to ensure broad based economic development and environmental protection As an informative and even handed account The Shale Dilemma recommends practical steps to help countries reach better more transparent and more far sighted decisions

The Political Economy of Fracking Ilia Murtazashvili, Ennio Piano, 2018-12-07 Over the past two decades fracking has led to a revolution in shale gas production For some shale gas promised economic opportunities cheaper energy bills and an alternative to coal For others shale gas was fool s gold Critics contend that the shale boom has occurred in a regulatory Wild West that the response has been fractured and ineffective or that the harmful environmental and health consequences exceed the benefits from shale gas production The Political Economy of Fracking argues that the criticism of the shale revolution has been misplaced The authors use insights from a diversity of perspectives in political economy to understand why the shale boom occurred who won in the race for shale and who was left behind The book explains how private property rights and entrepreneurs led to the shale boom It contends that polycentric governance which encourages a diversity of regulatory responses is a virtue because it generates knowledge about the most appropriate ways to regulate shale development Private property rights and political institutions that provide for local self governance also helped to ensure that the benefits of shale gas production exceeded its costs The authors make the case for fracking shale gas using evidence from shale producing countries from around the world comparing them to those that have fallen behind in the shale race They show that private property rights and markets have been a source of innovation and dynamism and that a diversity of

regulatory responses is appropriate to govern shale gas development This book is insightful reading for academics and professionals interested in the shale boom the fracking industry in general and regulatory policy **Our Energy Future** Don Albrecht, 2014-07-25 Rapid changes in energy production and consumption are having major socioeconomic implications for the communities of rural America Technological developments in horizontal drilling hydraulic fracturing fracking nuclear energy biofuels wind and solar energy have significantly increased domestic energy production and the production of energy from renewable sources has encouraged energy efficiency Yet severe concerns persist and policy decisions on energy issues will have profound implications for all Americans and rural communities where consequences are experienced most directly Thus the time is appropriate for a careful exploration of the socioeconomic implications of our energy future The purpose of this book is to present timely and scientifically sound information on energy policy socioeconomic aspects of energy production and consumption with a focus on rural areas The book presents the latest research by top scholars with the goal of clarifying options and providing the basis for informed policy decisions **Beyond the Mountains** Drew A. Swanson, 2018 Beyond the Mountains explores the ways in which Appalachia often served as a laboratory for the exploration and practice of American conceptions of nature The region operated alternately as frontier wilderness rural hinterland region of subsistence agriculture bastion of yeoman farmers and place to experiment with modernization In these various takes on the southern mountains scattered across time and space both mountain residents and outsiders consistently believed that the region's environment made Appalachia distinctive for better or worse With chapters dedicated to microhistories focused on particular commodities Drew A Swanson builds upon recent Appalachian studies scholarship emphasizing the diversity of a region so long considered a homogenous backwater While Appalachia has a recognizable and real coherence rooted in folkways agriculture and politics among other things it is also a region of varied environments people and histories These discrete stories are however linked through the power of conceptualizing nature and work together to reveal the ways in which ideas and uses of nature often created a sense of identity in Appalachia Delving into the environmental history of the region reveals that Appalachian environments rather than separating the mountains from the broader world often served to connect the region to outside places **Up to Heaven and Down to Hell** Colin Jerolmack, 2022-08-23 A riveting portrait of a rural Pennsylvania town at the center of the fracking controversy Shale gas extraction commonly known as fracking is often portrayed as an energy revolution that will transform the American economy and geopolitics But in greater Williamsport Pennsylvania fracking is personal Up to Heaven and Down to Hell is a vivid and sometimes heartbreaking account of what happens when one of the most momentous decisions about the well being of our communities and our planet whether or not to extract shale gas and oil from the very land beneath our feet is largely a private choice that millions of ordinary people make without the public's consent The United States is the only country in the world where property rights commonly extend up to heaven and down to hell which means that landowners have the exclusive right to lease their subsurface mineral

estates to petroleum companies Colin Jerolmack spent eight months living with rural communities outside of Williamsport as they confronted the tension between property rights and the commonwealth In this deeply intimate book he reveals how the decision to lease brings financial rewards but can also cause irreparable harm to neighbors to communal resources like air and water and even to oneself Up to Heaven and Down to Hell casts America s ideas about freedom and property rights in a troubling new light revealing how your personal choices can undermine your neighbors liberty and how the exercise of individual rights can bring unintended environmental consequences for us all

Reconceptualizing STEM Education

Richard A. Duschl,Amber S. Bismack,2016-01-08 Reconceptualizing STEM Education explores and maps out research and development ideas and issues around five central practice themes Systems Thinking Model Based Reasoning Quantitative Reasoning Equity Epistemic and Ethical Outcomes and STEM Communication and Outreach These themes are aligned with the comprehensive agenda for the reform of science and engineering education set out by the 2015 PISA Framework the US Next Generation Science Standards and the US National Research Council s A Framework for K 12 Science Education The new practice focused agenda has implications for the redesign of preK 12 education for alignment of curriculum instruction assessment STEM teacher education and professional development postsecondary further and graduate studies and out of school informal education In each section experts set out powerful ideas followed by two eminent discussant responses that both respond to and provoke additional ideas from the lead papers In the associated website highly distinguished nationally recognized STEM education scholars and policymakers engage in deep conversations and considerations addressing core practices that guide STEM education

Federalism and the Making of America David Brian Robertson,2017-09-14 Though Americans rarely appreciate it federalism has profoundly shaped their nation s past present and future Federalism the division of government authority between the national government and the states affects the prosperity security and daily life of every American Some of the most spectacular political conflicts in American history have been fought on the battlefield of federalism including states rights to leave the union government power to regulate business and responses to the problems of race poverty pollution abortion and gay rights In the second edition of this nuanced and comprehensive text David Brian Robertson shows that past choices shape present circumstances and that a deep understanding of American government public policy political processes and society requires an understanding of the key steps in federalism s evolution in American history New to the Second Edition Emphasizes that federalism is a battleground that shapes every life inAmerica Extensively revised and updated including new coverage of recent controversies like Ferguson immigration climate change Obamacare gay rights the minimum wage political polarization voter identification fracking and marijuana legalization Brings together the newest developments in history political science law and related disciplines to show how federalism influences government and politics today Includes chapter opening vignettes that deal with contemporary cases and policy challenges

The Fracking War Michael J. Fitzgerald ,2014-03-19 Veteran investigative reporter Jack Stafford leaves California to take

a job with a newspaper in Upstate New York where he discovers a citizen rebellion modeling itself after Edward Abbey's The Monkey Wrench Gang In The Fracking War activists use sabotage to defend against what they perceive as industrial terrorism perpetrated by multinational corporations environmentally damaging practice of hydrofracking for natural gas and oil Set in the pristine Finger Lakes wine country of New York and neighboring Pennsylvania Stafford and the newspaper staff witness the tragic impacts of hydrofracking the health risks water and air pollution and a rapid increase in crime The fictional events of The Fracking War were pulled from newspaper headlines offering a glimpse into an escalating conflict between citizens who want to protect their communities and the out of control expansion of the natural gas industry's controversial method of extracting natural gas

Fracking the Neighborhood Jessica Smartt Gullion, 2017-09-08 What happens when natural gas drilling moves into an urban area how communities in North Texas responded to the environmental and health threats of fracking When natural gas drilling moves into an urban or a suburban neighborhood a two hundred foot high drill appears on the other side of a back yard fence and diesel trucks clog a quiet two lane residential street Children seem to be having more than the usual number of nosebleeds There are so many local cases of cancer that the elementary school starts a cancer support group In this book Jessica Smartt Gullion examines what happens when natural gas extraction by means of hydraulic fracturing or fracking takes place not on wide open rural land but in a densely populated area with homes schools hospitals parks and businesses Gullion focuses on fracking in the Barnett Shale the natural gas rich geological formation under the Dallas Fort Worth metroplex She gives voice to the residents for the most part educated middle class and politically conservative who became reluctant anti drilling activists in response to perceived environmental and health threats posed by fracking Gullion offers an overview of oil and gas development and describes the fossil fuel culture of Texas the process of fracking related health concerns and regulatory issues including the notorious Halliburton loophole She chronicles the experiences of community activists as they fight to be heard and to get the facts about the safety of fracking Touted as a greener alternative and a means to reduce dependence on foreign oil natural gas development is an important part of American energy policy Yet as this book shows it comes at a cost to the local communities who bear the health and environmental burdens

Pedaling the Sacrifice Zone James S. Guignard, 2015-09-24 Before the dust settles as many as 100 000 natural gas wells may be drilled into the Marcellus Shale on more than 20 000 well pads in Pennsylvania Living on seven acres above the shale Jimmy Guignard tells his story as an English professor grappling with the meaning of place and the power of words as he watches the rural landscape his family calls home be transformed into an industrial sacrifice zone From the vantage point of an avid and experienced cyclist Guignard tracks the takeover chalking up thousands of miles pedaling through Tioga and surrounding counties Encountering increased truck traffic on the roads crossing pipeline construction on the trails and passing a growing number of flaring gas wells the author's rides begin to shape his academic work in ways he found surprising and sobering Juggling his roles as disinterested

professor anxious father and citizen and reluctant activist he reveals how the rhetoric of industry politicians and locals reshaped his understanding of teaching and his faith in the force of language **Fuel under Fire** Margaret J.

Goldstein,2015-08-01 Every day people on Earth use about 90 million barrels of petroleum oil and natural gas to fuel cars buses airplanes farm equipment and factories to heat their homes and to manufacture detergents paints plastics and countless other products To get that petroleum oil and gas companies search all over the planet from northernmost Canada to deep under the ocean Because it is such a valuable commodity petroleum has become known as black gold And because of global dependence on this natural resource scholars say we are living in the Age of Oil Alongside its benefits petroleum has serious drawbacks It is not a renewable resource and many of Earth s most easily accessed petroleum deposits have been used up Companies have begun to search for oil in more difficult to reach places using controversial methods Extracting processing and refining oil is often environmentally destructive Oil spills and other accidents can contaminate soil and water kill wildlife and make people sick On a larger scale burning fossil fuels such as petroleum releases large amounts of carbon dioxide into the air leading to climate change Even as governments activists and researchers explore a wide range of conservation measures and alternative fuel sources the world continues to run on petroleum And the struggle to balance the pros and cons of this coveted resource will play a decisive role in the planet s future The Palgrave Handbook of Managing

Fossil Fuels and Energy Transitions Geoffrey Wood,Keith Baker,2019-11-12 This Handbook is the first volume to comprehensively analyse and problem solve how to manage the decline of fossil fuels as the world tackles climate change and shifts towards a low carbon energy transition The overall findings are straight forward and unsurprising although fossil fuels have powered the industrialisation of many nations and improved the lives of hundreds of millions of people another century dominated by fossil fuels would be disastrous Fossil fuels and associated greenhouse gas emissions must be reduced to a level that avoids rising temperatures and rising risks in support of a just and sustainable energy transition Divided into four sections and 25 contributions from global leading experts the chapters span a wide range of energy technologies and sources including fossil fuels carbon mitigation options renewables low carbon energy energy storage electric vehicles and energy sectors electricity heat and transport They cover varied legal jurisdictions and multiple governance approaches encompassing multi and inter disciplinary technological environmental social economic political legal and policy perspectives with timely case studies from Africa Asia Australia Europe North America South America and the Pacific Providing an insightful contribution to the literature and a much needed synthesis of the field as a whole this book will have great appeal to decision makers practitioners students and scholars in the field of energy transition studies seeking a comprehensive understanding of the opportunities and challenges in managing the decline of fossil fuels **Oil** Xiaobing Li,Michael

Molina,2014-10-14 Despite ongoing efforts to find alternatives oil is still one of the most critical and valuable commodities on earth This two volume set provides extensive background information on key topics relating to oil profiles countries that are

major producers and consumers of oil and examines relevant political issues. Aside from air and water, oil is perhaps the most valuable natural resource. Oil supplies the tremendous energy needs of the modern world. What exactly is oil? Where does it come from? How does it get consumed and who is using it? This encyclopedia provides clear answers to these questions and more, offering students entries on the fundamentals of the oil industry and profiles of the countries that play a major role in oil production and consumption. Volume 1 presents topical entries on critical concepts, key terms, major oil spills and disasters, and important organizations and individuals relating to the oil industry. Entries define terms such as barrel and reserve, cover incidents such as the BP oil spill, and explain the significance of organizations such as OPEC. The second volume spotlights specific countries that are major producers, consumers, exporters, and importers of oil, from the United States to Russia, Saudi Arabia to Venezuela. Each profile shows readers the importance of oil in that country through a brief background, history, data on its oil usage or production, information about major trading partners, and an explanation of political issues.

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