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america has vaulted to the forefront of production of oil and gas due to the technological combination of hydraulic fracturing fracking and horizontal drilling this technology has enabled the united states to tap into its vast reserves of shale oil and gas which in 2014 drove the united states to produce the most crude oil annually since 1986 fracking has been employed in the oil and gas industry since 1947 and is a well stimulation technique in which an artificial fracture is created and then fluid and propping agents are pumped into the production casing through the perforations or open hole and into the targeted formation at pressures high enough to cause the rock

within the targeted formation to fracture citing public concern about whether fracking can contaminate underground water sources whether there is adequate management of well and whether chemicals used for fracking should be disclosed the bureau of land management blm undertook a rulemaking process to address fracking on federal lands the final rule was announced on march 20 2015 and was to become effective on june 24 2015 four states colorado north dakota utah and wyoming energy trade associations and two tribes the southern utes and the ute tribe of uintah and ouray county have filed lawsuits challenging the blm s final rule on hydraulic fracturing

there is a strong need for innovation and the development of viable renewable energy sources recent technological advances now allow natural gas supplies previously believed inaccessible or nonexistent to be discovered mined and processed for both industrial and consumer use the technology a controversial process that is alternatively called h

hydraulic fracturing was first developed in the united states during the 1940s and has since spread internationally a proven technology that is reaching deeper and tighter formations hydraulic fracturing now delivers hydrocarbons from fields previously considered economically unviable essentials of hydraulic fracturing focuses on consolidating the fundamental basics of fracturing technology with advances in extended horizontal wellbores and fracturing applications it provides the essentials required to understand fracturing behavior and offers advice for applying that knowledge to fracturing treatment design and application essentials of hydraulic fracturing is a long awaited text for petroleum engineering students industry wide hydraulic fracturing training courses or seminars and practicing fracturing treatment engineers features include understanding of fracture propagation geometry and

fracture conductivity and how it affects treatment results a focus on safety and environmental prudence economic optimization of fracturing treatments fracturing fluid system and propping agent performance important considerations in designing the fracture treatment for both vertical and horizontal wellbores algorithms and examples pertinent to treatment design and analysis pre and post fracturing approaches and diagnostics for evaluating treatment performance hydraulic fracturing model construction and applicability comparative design examples construction of spreadsheet calculations key to treatment designs

this book explores the history techniques and materials used in the practice of induced hydraulic fracturing one of today's hottest topics for the production of natural gas while examining the environmental and economic impact you can't squeeze blood from a turnip but you can release trapped natural gas from rock at least that is what is being accomplished now throughout north america natural gas that is primarily methane has been proven to be an excellent fuel source it can be safely burned to create heat to power engines boilers in factories and homes as well as powering turbines for generating electricity projections on natural gas volumes trapped underground suggest a nearly inexhaustible supply of this product yet with such abundance comes controversy a popular and economical technique relies on the gas from subterranean sources and requires fracturing rock bed this process is actually carried out naturally every day with water or magma magma may flow into rock beds superheating water to generate steam the resulting pressure of the expanding water molecules can be so great it can lift and separate thousands of tons of rock deep beneath the earth's surface this same practice can be carried out artificially induced using high powered pumps and various liquid compounds this technique combined with new horizontal

directional drilling machines have enabled the harvest and distribution of natural gas but at what cost does this practice contribute to greenhouse gas does it create earthquakes does it contaminate the groundwater supply these are important issues surrounding hydraulic fracturing and they are covered here in detail

hydraulic fracturing impacts and technologies a multidisciplinary perspective serves as an introduction to hydraulic fracturing and provides balanced coverage of its benefits and potential negative effects presenting a holistic assessment of hydraulic fracturing and its environmental impacts this book chronicles the history and development of un

the primary focus of today s hearing is our study on hydraulic fracturing and hydraulic fracturing so far as i understand it or fracking is the process by which water sand and a small amount of additives are pumped into a well to create enough pressure to fracture formations deep within the earth that is pretty simple but that is what they wrote out for me to say here advances in this 60 year old technology combined with horizontal drilling have transformed the production of natural gas along with the natural gas industry access to shale gas that was until recently uneconomical and technically unrecoverable is driving state and local economic growth all around the country with providing new sources of domestic energy to meet growing demand as with all energy development deep gas drilling is not without risk and concerns about potential environmental effects this has to be examined

hydraulic fracturing is a unique oil and gas reservoir stimulation technique that has positioned itself as the industry s choice for developing tight shale oil and gas fields together with horizontal well this technology unlocks impervious shale rocks releasing crude oil and natural gas that otherwise would not have been possible by using

conventional exploration and production methods this detailed 2nd edition has many illustrations giving readers solid foundation in the procedures issues benefits and reverse benefits associated with current shale reservoir development using hydraulic fracturing fracking book contents among others include a concise explanation on natural gas crude oil conventional and unconventional formation preparation for hydraulic fracturing well drilling process well completion process perforation horizontal well the preferred well configuration for fracking hydraulic fracturing procedures etc offshore fracking quietly on the rise common misconception of fracking technique environmental concerns of hydraulic fracturing benefits and reverse benefits of hydraulic fracturing winners and losers when oil and gas prices fall eco friendly alternatives to hydraulic fracturing those who use this book include technical nontechnical persons students and all that are following the trend in the global oil and gas industry readers are given a good footing on the procedures issues and benefits concerning hydraulic fracturing fracking

mechanics of hydraulic fracturing comprehensive single volume reference work providing an overview of experimental results and predictive methods for hydraulic fracture growth in rocks mechanics of hydraulic fracturing experiment model and monitoring provides a summary of the research in mechanics of hydraulic fractures during the past two decades plus new research trends to look for in the future the book covers the contributions from theory modeling and experimentation including the application of models to reservoir stimulation mining preconditioning and the formation of geological structures the four expert editors emphasize the variety of diverse methods and tools in hydraulic fracturing and help the reader understand hydraulic fracture mechanics in complex geological situations to aid in reader comprehension

practical examples of new approaches and methods are presented throughout the book key topics covered in the book include prediction of fracture shapes sizes and distributions in sedimentary basins plus their importance in petroleum industry real time monitoring methods such as micro seismicity and trace tracking how to uncover geometries of fractures like dikes and veins fracture growth of individual foundations and its applications researchers and professionals working in the field of fluid driven fracture growth will find immense value in this comprehensive reference on hydraulic fracturing mechanics

a guide to environmental and communication issues related to fracking and the best approach to protect communities environmental considerations associated with hydraulic fracturing operations offers a much needed resource that explores the complex challenges of fracking by providing an understanding of the environmental and communication issues that are inherent with hydraulic fracturing the book balances the current scientific knowledge with the uncertainty and risks associated with hydraulic fracking in addition the authors offer targeted approaches for helping to keep communities safe the authors include an overview of the historical development of hydraulic fracturing and the technology currently employed the book also explores the risk prevention and mitigation factors that are associated with fracturing the authors also include legal cases regulatory issues and data on the cost of recovery the volume presents audit checklists for gathering critical information and documentation to support the reliability of the current environmental conditions related to fracking operations and the impact fracking can have on a community this vital resource contains the technical information and mitigation recommendations for safety and environmental issues related to hydraulic fracturing offers an historical overview of

conventional and unconventional oil and gas drilling explains the geologic and technical issues associated with fracking of tight sand and shale formations presents numerous case studies from the united states epa and other agencies discusses issues of co produced waste water and induced seismicity from the injection of wastewater written for environmental scientists geologists engineers regulators city planners attorneys foresters wildlife biologists and others environmental considerations associated with hydraulic fracturing operations offers a comprehensive resource to the complex environmental and communication issues related to fracking

this book examines the underlying mechanics of creating a fracture from vertical or deviated wellbores and the propagation of a hydraulic fracture in the reservoir

examines the history uses and effects of hydraulic fracturing

natural gas plays a key role in our nation s clean energy future the united states has vast reserves of natural gas that are commercially viable as a result of advances in horizontal drilling and hydraulic fracturing technologies which enable greater access to gas in rock formations deep underground these advances have spurred a significant increase in the production of both natural gas and oil across the country responsible development of america s oil and gas resources offers important economic energy security and environmental benefits however as the use of hydraulic fracturing has increased so have concerns about its potential human health and environmental impacts especially for drinking water in response to public concern the us house of representatives requested that the us environmental protection agency epa conduct scientific research to examine the relationship between hydraulic fracturing and drinking water resources in 2011 the epa began research under its plan to study the

potential impacts of hydraulic fracturing on drinking water resources the purpose of the study is to assess the potential impacts of hydraulic fracturing on drinking water resources if any and to identify the driving factors that may affect the severity and frequency of such impacts scientists are focusing primarily on hydraulic fracturing of shale formations to extract natural gas with some study of other oil and gas producing formations including tight sands and coalbeds the epa has designed the scope of the research around five stages of the hydraulic fracturing water cycle each stage of the cycle is associated with a primary research question water acquisition what are the possible impacts of large volume water withdrawals from ground and surface waters on drinking water resources chemical mixing what are the possible impacts of hydraulic fracturing fluid surface spills on or near well pads on drinking water resources well injection what are the possible impacts of the injection and fracturing process on drinking water resources flowback and produced water what are the possible impacts of flowback and produced water collectively referred to as hydraulic fracturing wastewater surface spills on or near well pads on drinking water resources wastewater treatment and waste disposal what are the possible impacts of inadequate treatment of hydraulic fracturing wastewater on drinking water resources this report describes 18 research projects underway to answer these research questions and presents the progress made as of september 2012 for each of the projects information presented as part of this report cannot be used to draw conclusions about potential impacts to drinking water resources from hydraulic fracturing the research projects are organized according to five different types of research activities analysis of existing data scenario evaluations laboratory studies toxicity assessments and case studies

since the first edition of fracking was published hydraulic fracturing has continued to be

hotly debated credited with bringing the us and other countries closer to energy independence and blamed for tainted drinking water and earthquakes hydraulic fracturing fracking continues to be one of the hottest topics and fiercely debated issues in the energy industry and in politics covering all of the latest advances in fracking since the first edition was published this expanded and updated revision still contains all of the valuable original content for the engineer or layperson to understand the technology and its ramifications useful not only as a tool for the practicing engineer solve day to day problems that come with working in hydraulic fracturing it is also a wealth of information covering the possible downsides of what many consider to be a very valuable practice many others consider it dangerous and it is important to see both sides of the argument from an apolitical logical standpoint while induced hydraulic fracturing utilizes many different engineering disciplines this book explains these concepts in an easy to understand format the primary use of this book shall be to increase the awareness of a new and emerging technology and what the various ramifications can be the reader shall be exposed to many engineering concepts and terms all of these ideas and practices shall be explained within the body a science or engineering background is not required

this book provides a systematic scientific approach to the understanding of hydraulic fracturing fracking as a hydrocarbon extraction technology and its impact on the environment the book addresses research from the past decade to assess how fracking can affect air water landscapes and ecosystems and presents the subject in the context of the history of fracking and shale gas development in the united states describing what is known and not known about environmental impacts and the broader implications of fossil energy use climate change and technology development in 9

chapters the author lays out how and why hydraulic fracturing was developed what driving forces existed at the beginning of the so called shale revolution how success was achieved and when and why public acceptance of the technology changed the intended audience is scientific people who are concerned about fracking but perhaps do not know all that much about it it is also intended for lay people who would be interested in understanding the technical details of the process and what effects it might or might not be having on the environment the book is written at a level that is both understandable and technically correct a further goal is to give some useful insights even to experienced petroleum geologists and engineers who have been doing fracking for many years

fracking or hydraulic fracturing to give its proper name has become part of our lives recently due to the massive exploitation of america s shale oil and gas fields along the way it has stirred up controversy with passionate opponents fighting against the oil companies the fight has generated a lot of heat but not much understanding this guide written by some one who knows what he is talking about takes a detached neutral view of the subject without pushing a view for or against it provides the factual background you need to form an opinion of your own an informed and neutral introductionlike most people i have heard of fracking but did i really understand what it was to answer honestly no i knew it had something to do with mining and was perhaps destructive to the land to me it was just one of those words of the moment this guide has given me a real sense and understanding of what fracking is it allowed me someone who has no experience in this field to learn about the pros and cons of fracking without having the good and bad of it forced down my throat if you want an informed and neutral introduction into fracking then this is the guide for you debbie

prewer

hydraulic fracturing in unconventional reservoirs theories operations and economic analysis second edition presents the latest operations and applications in all facets of fracturing enhanced to include today s newest technologies such as machine learning and the monitoring of field performance using pressure and rate transient analysis this reference gives engineers the full spectrum of information needed to run unconventional field developments covering key aspects including fracture clean up expanded material on refracturing and a discussion on economic analysis in unconventional reservoirs this book keeps today s petroleum engineers updated on the critical aspects of unconventional activity helps readers understand drilling and production technology and operations in shale gas through real field examples covers various topics on fractured wells and the exploitation of unconventional hydrocarbons in one complete reference presents the latest operations and applications in all facets of fracturing

hydraulic fracturing is a technique used to recover oil and natural gas from underground low permeability rock formations hydraulic fracturing involves pumping fluids primarily water and a small portion of chemicals along with sand or other proppant under high pressure into rock formations to crack them and allow the resources inside to flow to a production well the technique has been the subject of controversy because of the potential effects that hydraulic fracturing and related oil and gas production activities may have on the environment and health this book focuses on selected legal issues related to the use of hydraulic fracturing it examines some of the requirements for hydraulic fracturing contained in major federal environmental laws and also provides an overview of issues involving state pre emptio of local zoning

authority as well as state law

natural gas plays a key role in our nation's clean energy future recent advances in drilling technologies including horizontal drilling and hydraulic fracturing have made vast reserves of natural gas economically recoverable in the us responsible development of america's oil and gas resources offers important economic energy security and environmental benefits hydraulic fracturing is a well stimulation technique used to maximize production of oil and natural gas in unconventional reservoirs such as shale coalbeds and tight sands during hydraulic fracturing specially engineered fluids containing chemical additives and proppant are pumped under high pressure into the well to create and hold open fractures in the formation these fractures increase the exposed surface area of the rock in the formation and in turn stimulate the flow of natural gas or oil to the wellbore as the use of hydraulic fracturing has increased so have concerns about its potential environmental and human health impacts many concerns about hydraulic fracturing center on potential risks to drinking water resources although other issues have been raised in response to public concern the us congress directed the us environmental protection agency epa to conduct scientific research to examine the relationship between hydraulic fracturing and drinking water resources this study plan represents an important milestone in responding to the direction from congress epa is committed to conducting a study that uses the best available science independent sources of information and a transparent peer reviewed process that will ensure the validity and accuracy of the results the agency will work in consultation with other federal agencies state and interstate regulatory agencies industry non governmental organizations and others in the private and public sector in carrying out this study stakeholder outreach as the study is being conducted will

continue to be a hallmark of our efforts just as it was during the development of this study plan the overall purpose of this study is to elucidate the relationship if any between hydraulic fracturing and drinking water resources more specifically the study has been designed to assess the potential impacts of hydraulic fracturing on drinking water resources and to identify the driving factors that affect the severity and frequency of any impacts based on the increasing development of shale gas resources in the us and the comments epa received from stakeholders this study emphasizes hydraulic fracturing in shale formations portions of the research however are also intended to provide information on hydraulic fracturing in coalbed methane and tight sand reservoirs the scope of the research includes the hydraulic fracturing water use lifecycle which is a subset of the greater hydrologic cycle for the purposes of this study the hydraulic fracturing water lifecycle begins with water acquisition from surface or ground water and ends with discharge into surface waters or injection into deep wells specifically the water lifecycle for hydraulic fracturing consists of water acquisition chemical mixing well injection flowback and produced water collectively referred to as hydraulic fracturing wastewater and wastewater treatment and waste disposal

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