

Well Control

Energy Institute (Great Britain)

Well Control for Completions and Interventions Howard Crumpton, 2018-04-04 Well Control for Completions and Interventions explores the standards that ensure safe and efficient production flow, well integrity and well control for oil rigs, focusing on the post-Macondo environment where tighter regulations and new standards are in place worldwide. Too many training facilities currently focus only on the drilling side of the well's cycle when teaching well control, hence the need for this informative guide on the topic. This long-awaited manual for engineers and managers involved in the well completion and intervention side of a well's life covers the fundamentals of design, equipment and completion fluids. In addition, the book covers more important and distinguishing components, such as well barriers and integrity envelopes, well kill methods specific to well completion, and other forms of operations that involve completion, like pumping and stimulation (including hydraulic fracturing and shale), coiled tubing, wireline, and subsea intervention. Provides a training guide focused on well completion and intervention Includes coverage of subsea and fracturing operations Presents proper well kill procedures Allows readers to quickly get up-to-speed on today's regulations post-Macondo for well integrity, barrier management and other critical operation components

Universal Well Control Gerald Raabe, C. Scott Jortner, 2021-11-03 Universal Well Control gives today's drilling and production engineers a modern guide to effectively and responsibly manage rig operations. In a post-Macondo industry, well control continues to require higher drilling costs, a waste of natural resources, and the possibility of a loss of human life when kicks and blowouts occur. The book delivers updated photos, practice examples and methods that are critical to modern well control information, ensuring engineers and personnel stay safe, environmentally responsible and effective. Complete with all phases of well control, the book covers kick detection, kick control, loss of control and blowout containment and killing. A quick tips section is included, along with templated, step-by-step methods to replicate for non-routine shut-in methods. Bonus equipment animations are included, along with a high number of visuals. Specialized methods are covered, including dual gradient drilling and managed pressure drilling. Provides a practical training guide that is focused on well control, including expanded subsea coverage Includes well kill procedures, with added kill sheets and bonus video equipment animations Helps readers understand templated steps for non-routine shut-in methods, such as the lubricate and bleed method and variable mud volume

Practical Well Control Jim Fitzpatrick, 1991

An Introduction to Well Control Calculations for Drilling Operations Dave Cormack, 2017-08-10 This book removes the mystery and pressure from calculations by equipping readers with the tools they need to understand calculations and how they work. This is done by using straight-forward language and showing fully worked out, rig-based examples throughout. The book comprises of mini lessons which are never more than two pages long and a complete lesson is always in view when the book is open in front of you. Lessons progress in a logical manner and once the book is finished, the reader is ready for any calculations that could be encountered at well control school. It is a great tool for rig crew members who are afraid of calculations or have not done any math since school. I found it easy to follow with clear explanations and it flowed from topic to topic. A definite addition to the rig crews training toolbox. Malcolm Lodge (at the time of writing Technical Director of the Well Control Institute)

Blowout and Well Control Handbook Robert D. Grace, 2017-05-26 Blowout and Well Control Handbook, Second Edition, brings the engineer and rig personnel up to date on all the useful methods, equipment, and project details needed to solve daily well control challenges. Blowouts are the most expensive and one of the most preventable accidents in the oil and gas industry. While some rig crews experience frequent well control incidents, some go years before seeing the real thing. Either way, the crew must always be prepared with quick understanding of the operations and calculations necessary to maintain well control. Updated to cover the lessons learned and new technology following the Macondo incident, this fully detailed reference will cover detection of influxes and losses in equipment and methods, a greater emphasis on kick tolerance considerations, an expanded section on floating drilling and deepwater floating drilling procedures, and a new blowout case history from Bangladesh. With updated photos, case studies, and practice examples, Blowout and Well Control Handbook, Second Edition will continue to deliver critical and modern well control information to ensure engineers and personnel stay safe, environmentally-responsible, and effective on the rig. Features updated and new case studies including a chapter devoted to the lessons learned and new procedures following Macondo Teaches new technology such as liquid packer techniques and a new chapter devoted to relief well design and operations Improves on both offshore and onshore operations with expanded material and photos on special conditions, challenges, and control procedures throughout the entire cycle of the well

Well Control for Completion and Workover Well Control School, 1992-01-01 On January 24, 1991, Minerals Management Service (MMS) issued 30 Code of Federal Regulations (CFR) Part 250, Subpart O -- Training, which, among other things, laid out well-control training requirements for supervisors engaged in completion and workover activities in the Outer Continental Shelf of the United States. Well Control for Completion and Workover is designed as a text for those attending MMS certification classes. Similar to Practical Well Control, which is a text for drilling certification classes, Well Control for Completion and Workover covers the items required by MMS for certification, as well as additional material that is useful for supervisors to know.

Well Control Problems and Solutions Neal Adams, 1980

Common Well Control Hazards Xiaozhen Sun, 2012-09-13 Heavily illustrated with 900 pictures of actual well control sites, Common Well Control Hazards: Identification and Countermeasures provides a visual representation of 177 common well control hazards and how to prevent or counteract them. The perfect companion for any engineer who needs to develop and apply their skill more efficiently, this plain language" guide covers common well control equipment such as: BOP control system, BOP manifold, kill manifold, drilling fluid recovery pipes, IBOP tools, liquid gas separator, and fire, explosion & H₂S prevention. With this manual in hand, new hires" not only learn about the inherent hazards which await them out in the field but also gain expert advice for deploying the necessary countermeasures which will lead to effective, incident free field operations. Simply describes operational equipment and procedures Explains 177 kinds of potential hazards and countermeasure Identifies common hazards and their countermeasures

Advanced Blowout & Well Control Robert D. Grace, 1994 Full text engineering e-book.

Advanced Well Control David Watson, Terry Brittenham, Preston L. Moore, 2003 Advanced Well Control addresses all phases of well control, from the design stage of a well through plug and abandonment.

Well Control Devin Larocca, 2021-07-02 Well-control means methods used to minimize the potential for the well to flow or kick and to maintain control of the well in the event of flow or a kick. Well-control applies to drill, well-completion, well-workover, abandonment, and well-servicing operations. It is one of the most essential topics in the drilling industry. This book is created to help people refresh and get more understanding about well control. It will also assist people before they are going to the well control school. There are several books in this series and each book contains one main topic which will be advantageous for learners. The eBook is an interactive eBook containing 25 questions related to the well control method covered from the basic to some calculations. Additionally, this content is based on both IWCF and IADC well control. Each question contains 3 possible answers.

Macondo Well Deepwater Horizon Blowout National Research Council, National Academy of Engineering, Board on Environmental Studies and Toxicology, Marine Board, Committee on the Analysis of Causes of the Deepwater Horizon Explosion, Fire, and Oil Spill to Identify Measures to Prevent Similar Accidents to the Future, 2012-03-02 The blowout of the Macondo well on April 20, 2010, led to enormous consequences for the individuals involved in the drilling operations, and for their families. Eleven workers on the

Deepwater Horizon drilling rig lost their lives and 16 others were seriously injured. There were also enormous consequences for the companies involved in the drilling operations, to the Gulf of Mexico environment, and to the economy of the region and beyond. The flow continued for nearly 3 months before the well could be completely killed, during which time, nearly 5 million barrels of oil spilled into the gulf. Macondo Well-Deepwater Horizon Blowout examines the causes of the blowout and provides a series of recommendations, for both the oil and gas industry and government regulators, intended to reduce the likelihood and impact of any future losses of well control during offshore drilling. According to this report, companies involved in offshore drilling should take a system safety approach to anticipating and managing possible dangers at every level of operation-from ensuring the integrity of wells to designing blowout preventers that function under all foreseeable conditions-in order to reduce the risk of another accident as catastrophic as the Deepwater Horizon explosion and oil spill. In addition, an enhanced regulatory approach should combine strong industry safety goals with mandatory oversight at critical points during drilling operations. Macondo Well-Deepwater Horizon Blowout discusses ultimate responsibility and accountability for well integrity and safety of offshore equipment, formal system safety education and training of personnel engaged in offshore drilling, and guidelines that should be established so that well designs incorporate protection against the various credible risks associated with the drilling and abandonment process. This book will be of interest to professionals in the oil and gas industry, government decision makers, environmental advocacy groups, and others who seek an understanding of the processes involved in order to ensure safety in undertakings of this nature.

Sand Control in Well Construction and Operation Davorin Matanovic, Marin Cikes, Bojan Moslavac, 2012-02-21 Produced sand causes a lot of problems. From that reasons sand production must be monitored and kept within acceptable limits. Sand control problems in wells result from improper completion techniques or changes in reservoir properties. The idea is to provide support to the formation to prevent movement under stresses resulting from fluid flow from reservoir to well bore. That means that sand control often result with reduced well production. Control of sand production is achieved by: reducing drag forces (the cheapest and most effective method), mechanical sand bridging (screens, gravel packs) and increasing of formation strength (chemical consolidation). For open hole completions or with un-cemented slotted liners/screens sand failure will occur and must be predicted. Main problem is plugging. To combat well failures due to plugging and sand breakthrough Water-Packing or Shunt-Packing are used.

Well Control Quiz Lionel Newmark, 2021-07-12 Well-control means methods used to minimize the potential for the well to flow or kick and to maintain control of the well in the event of flow or a kick. Well-control applies to drill, well-completion, well-workover, abandonment, and well-servicing operations. It includes measures, practices, procedures, and equipment, such as fluid flow monitoring, to ensure safe and environmentally protective drilling, completion, abandonment, and workover operations as well as the installation, repair, maintenance, and operation of surface and subsea well-control equipment The eBook is an interactive eBook containing 25 questions related to well control trick questions and well control equipment covered from the basic to some calculations. Additionally, this content is based on both IWCF and IADC well control. Each question contains 3 possible answers. What's more, each question will have full explanations If you are seeking a way to learn well-control effectively, don't miss this book!

Well Control During the Drilling and Testing of High Pressure Offshore Wells Energy Institute (Great Britain), 2008-01-01

Blowout and Well Control Handbook Mithilesh Kumar, 2015-03 Well control problems are always interesting. The raw power that is released by nature in the form of an oil or gas well blowing out of control is awesome. Well control is one thing and WILD well control is something else. There will be well control problems and wild wells as long as there are drilling operations anywhere in the world. There are some among us that think these problems are always the consequence of some error and can be eliminated. I don't think so. I've seen some that I don't think anyone could have avoided. These problems are part of the business and just go with the territory. The consequences of failure are severe. Even the most simple blowout situation can result in the loss of millions of dollars in equipment and valuable natural resources. These situations can also result in the loss of something much more valuable human life.

Blowout and Well Control Handbook Robert D. Grace, 2003-10-03 As with his 1994 book, *Advanced Blowout and Well Control*, Grace offers a book that presents tested practices and procedures for well control, all based on solid engineering principles and his own more than 25 years of hands-on field experience. Specific situations are reviewed along with detailed procedures to analyze alternatives and tackle problems. The use of fluid dynamics in well control, which the author pioneered, is given careful treatment, along with many other topics such as relief well operations, underground blowouts, slim hole drilling problems, and special services such as fire fighting, capping, and snubbing. In addition, case histories are presented, analyzed, and discussed. Provides new techniques for blowout containment, never before published, first used in the Gulf War Provides the most up-to-date techniques and tools for blowout and well control New case histories include the Kuwait fires that were set by Saddam Hussein during the Gulf War

Blowout and Well Control Handbook Robert D. Grace, 2017-05-25 *Blowout and Well Control Handbook, Second Edition*, brings the engineer and rig personnel up to date on all the useful methods, equipment, and project details needed to solve daily well control challenges. Blowouts are the most expensive and one of the most preventable accidents in the oil and gas industry. While some rig crews experience frequent well control incidents, some go years before seeing the real thing. Either way, the crew must always be prepared with quick understanding of the operations and calculations necessary to maintain well control. Updated to cover the lessons learned and new technology following the Macondo incident, this fully detailed reference will cover detection of influxes and losses in equipment and methods, a greater emphasis on kick tolerance considerations, an expanded section on floating drilling and deepwater floating drilling procedures, and a new blowout case history from Bangladesh. With updated photos, case studies, and practice examples, *Blowout and Well Control Handbook, Second Edition* will continue to deliver critical and modern well control information to ensure engineers and personnel stay safe, environmentally-responsible, and effective on the rig.

Firefighting and Blowout Control L. William Abel, Joe R. Bowden, Patrick J. Campbell, 1994 This is a comprehensive guide to oil- and gas-well firefighting, well-capping and blowout control. It outlines field-proven, practical techniques, as well as applied engineering applications for calculation of complex problems, such as two-phase dynamic kills and blowout contingency planning. Additionally, the logistics and project control of a fastrack well-control project are addressed.

Artesian Well Control South Dakota. State Planning Board, 1935

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