

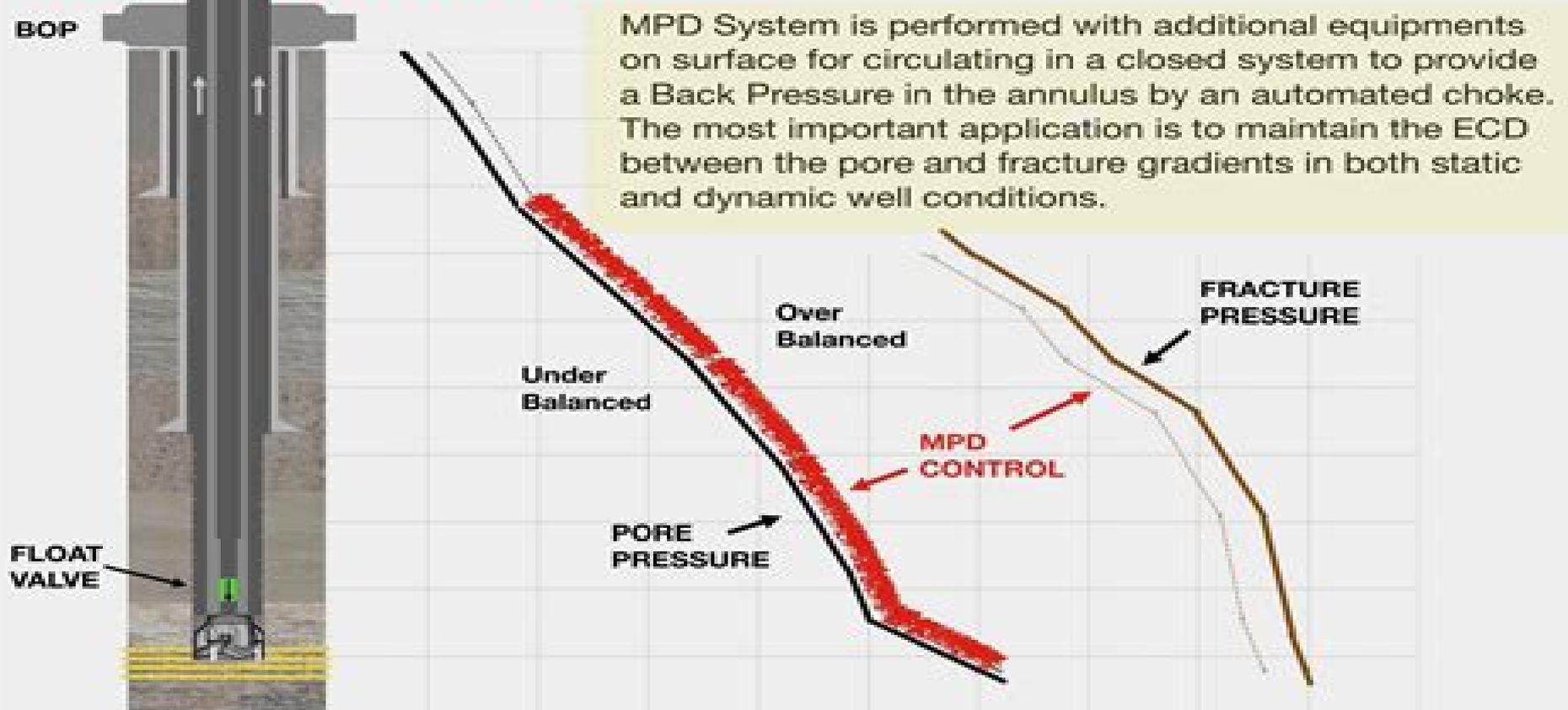
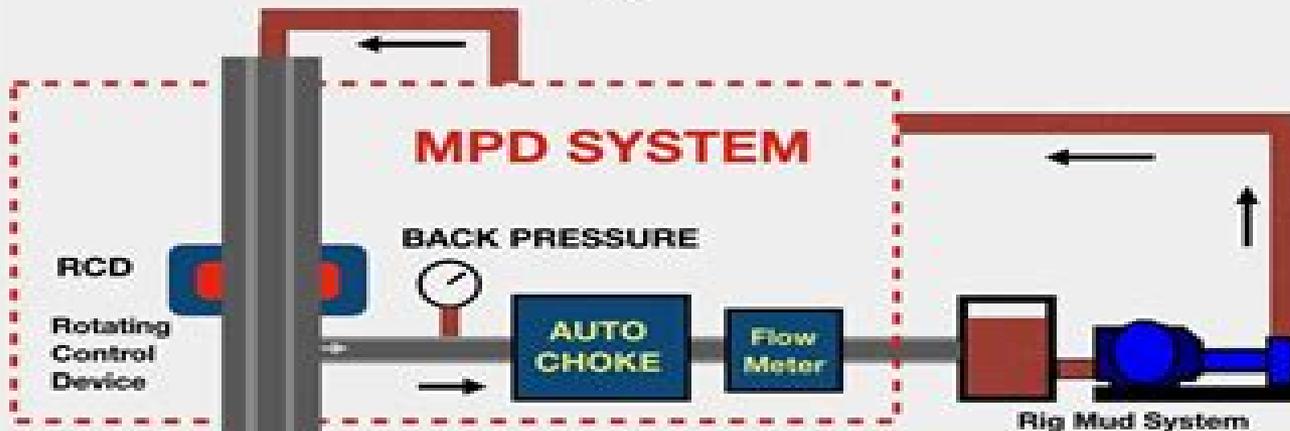
MPD - Managed Pressure Drilling



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MPD System is performed with additional equipments on surface for circulating in a closed system to provide a Back Pressure in the annulus by an automated choke. The most important application is to maintain the ECD between the pore and fracture gradients in both static and dynamic well conditions.

Pressure Drilling Mpd System Cnpc

Adrian Marius Ambruş



Pressure Drilling Mpd System Cnpc:

Managed Pressure Drilling: Fundamentals, Methods and Applications Eric van Oort, 2025-05-30 Managed Pressure Drilling Fundamentals Methods and Applications First Edition provides the basic infrastructure and extended support necessary for drilling engineers to apply managed pressure drilling to their operations Enhanced with multiple new chapters and contributions from both academic and corporate authors this reference provides engineers with the basic processes and equipment behind MPD Other sections explain the latest technology and real world case studies such as how to optimize the managed pressure drilling system how to choose the best well candidate for MPD and how to lower costs for land based operations Packed with a glossary list of standards and a well classification system this book is a flagship reference for drilling engineers on how to understand basics and advances in this fast paced area of oil and gas technology Demonstrates the value in safety improvement time and cost savings sustainability and reduced carbon footprint that adoption of MPD brings to well construction Delivers a fundamental collection on managed pressure drilling equipment methods procedures best practices and field cases Presents a balance of information that ranges from historical details and background theory to practical application Includes multiple critical chapters dealing with all major MPD variants MPD event detection control systems and automation how to plan and risk MPD where MPD fits in the well delivery process and its future outlook

[Proceedings of the International Field Exploration and Development Conference 2024](#) Jia'en Lin, 2025-05-27 This book compiles selected papers from the 14th International Field Exploration and Development Conference IFEDC 2024 The work focuses on topics including Reservoir Exploration Reservoir Drilling Completion Field Geophysics Well Logging Petroliferous Basin Evaluation Oil Gas Accumulation Fine Reservoir Description Complex Reservoir Dynamics and Analysis Low Permeability Tight Oil Gas Reservoirs Shale Oil Gas Fracture Vuggy Reservoirs Enhanced Oil Recovery in Mature Oil Fields Enhanced Oil Recovery for Heavy Oil Reservoirs Big Data and Artificial Intelligence Formation Mechanisms and Prediction of Deep Carbonate Reservoirs and other Unconventional Resources The conference serves as a platform not only for exchanging experiences but also for advancing scientific research in oil gas exploration and production The primary audience for this work includes reservoir engineers geological engineers senior engineers enterprise managers and students

Proceedings of the International Field Exploration and Development Conference 2023 Jia'en Lin, 2024-03-12 This book focuses on reservoir surveillance and management reservoir evaluation and dynamic description reservoir production stimulation and EOR ultra tight reservoir unconventional oil and gas resources technology oil and gas well production testing and geomechanics This book is a compilation of selected papers from the 13th International Field Exploration and Development Conference IFEDC 2023 The conference not only provides a platform to exchanges experience but also promotes the development of scientific research in oil and gas exploration and production The main audience for the work includes reservoir engineer geological engineer enterprise managers senior engineers as well as students

Modeling and Control of Managed Pressure Drilling Operations Adrian Marius Ambruş, 2017 The upstream oil and gas industry has witnessed a marked increase in the number of wells drilled in areas with elevated subsurface formation pressures and narrow drilling margins Managed Pressure Drilling MPD techniques have been developed to deal with the challenge of narrow margin wells offering great promise for improved rig safety and reduced non productive time Automation of MPD operations can ensure improved control over wellbore pressure profiles and there are several commercial solutions currently available However these automation efforts seldom take into account the uncertainty and complex dynamics inherent in subsurface environments and usually assume ideally functioning sensors and actuators which is rarely the case in real world drilling operations This dissertation describes a set of tools and methods that can form the basis for an automation framework for MPD systems with specific focus on the surface back pressure technique of MPD Model based control algorithms with robust reference tracking as well as methods for detecting system faults and handling modeling uncertainty are integrated with a novel multi phase hydraulics model The control system and event detection modules are designed using physics based representations of the drilling processes as well as models relating uncertain variables in a probabilistic fashion Validation on high fidelity simulation models is conducted in order to ascertain the effectiveness of the developed methods

Safety and Reliability Assessment of Managed Pressure Drilling in Well Control Operations Idris Olusola Sule, 2019 Managed pressure drilling MPD is a technique utilized in drilling to manage annular pressure hold reservoir influx and divert mud returns away safely from the rig floor through a closed loop system Thus MPD plays key roles in well control operations and in drilling deepwater wells However despite the operational safety and economic benefits limited information is available on understanding the complexity of MPD system Furthermore the oil and gas industry currently relies on a flow monitoring system for earlier kick detection but faces severe flaws and limited progress has been made on approach that monitors kick from downhole due to the complexity of offshore drilling operations Thus the main objective of this research is to assess the safety and reliability of MPD In this research following novel contributions have been made several dynamic downhole drilling parameters have been identified to enhance earlier kick detection technique during drilling including about 33 89% damping of bit rock vibrations due to gas kick a reliability assessment model has been developed to estimate the failure probability of an MPD system as 5 74% the assess the increase in reliability of kick control operation increases from 94% to 97% due to structural modification of the MPD components identify that MPD operational failure modes are non sequential and identify that an MPD control system is the most safety critical components in an MPD system an automated MPD control model which implements a nonlinear model predictive controller NMPC and a two phase hydraulic flow model has been developed to perform numerical simulations of an MPD operation and lastly an integrated dynamic blowout risk model DBRM to assess the safety during an MPD operation has been developed and its operation involves three key steps a dynamic Bayesian network DBN model a numerical simulation of an

MPD control operation and dynamic risk analysis to assess the safety of the well control operation as drilling conditions change over time The DBRM also implemented novel kick control variables to assess the success failure of an MPD operation i e its safety and are instrumental in providing useful information to predict the performance of diagnose the failure of an MPD operation and has been successfully applied to replicate the dynamic risk of blowout risk scenarios presented in an MPD operation at the Amberjack field case study from the Gulf of Mexico

Managed Pressure Drilling Bill Rehm, Jerome Schubert, Arash Haghshenas, Jim Hughes, Amir Saman Paknejad, 2013-12-18 With extraction out of depleted wells more important than ever this new and developing technology is literally changing drilling engineering for future generations Never before published in book form these cutting edge technologies and the processes that surround them are explained in easy tounderstand language complete with worked examples problems and solutions This volume is invaluable as a textbook for both the engineering student and the veteran engineer who needs to keep up with changing technology

Managed Pressure Drilling Wilson C Chin, 2012-01-25 Managed Pressure Drilling Operations is a significant technology worldwide and beginning to make an impact all over the world Often reservoir and drilling engineers are faced with the decision on how best to construct a well to exploit zones of interest while seeking to avoid drilling problems that contribute to reservoir damage or cause loss of hole The decision to pursue a MPD operation is based on the intent of applying the most appropriate technology for the candidate and entails either an acceptance of influx to the surface or avoidance of influx into the wellbore In today s exploration and production environment drillers must now drill deeper faster and into increasingly harsher environments where using conventional methods could be counter productive at best and impossible at worst Managed Pressure Drilling MPD is rapidly gaining popularity as a way to mitigate risks and costs associated with drilling in harsh environments If done properly MPD can improve economics for any well being drilled by reducing a rig s nonproductive time Written for engineers drilling managers design departments and operations personnel Managed Pressure Drilling Modeling is based on the author s on experience and offers instruction on planning designing and executing MPD projects Compact and readable the book provides a step by step methods for understanding and solve problems involving variables such as backpressure variable fluid density fluid rheology circulating friction hole geometry and drillstring diameter All MPD variations are covered including Constant Bottomhole Pressure Pressurized MudCap Drilling and Dual Gradient Drilling Case histories from actual projects are designed and analyzed using proprietary simulation software online With this book in hand drilling professionals gain knowledge of the various variations involved in managed pressure drilling operations understand the safety and operational aspects of a managed pressure drilling project and be able to make an informed selection of all equipment required to carry out a managed pressure drilling operation Case histories from actual projects are designed and analyzed using proprietary simulation software online Clearly explains the safety and operational aspects of a managed pressure drilling project Expert coverage of the various variations involved in managed pressure drilling operations

Numerical tools and techniques needed for applying MPD principles and practices to individual projects Managed Pressure Drilling Sagar Nauduri,2012 Managed Pressure Drilling MPD one of the advanced techniques in the Drilling and Petroleum Industry currently at the top of the drilling technology evolution pyramid is a collection of tested drilling techniques and variations MPD when properly engineered and executed in most of the scenarios can help mitigate several drilling issues and improve personal and environmental safety However not all wells with drilling issues and or problems need MPD Proper screening of potential candidates with utmost diligence is required prior to electing to use MPD Any technology let alone MPD new or old simple or complex expensive or cheap should not be applied without thorough understanding and careful evaluation of the entire process Technology used for wrong reasons with incomplete comprehension and half hearted assessment and analysis is bound to give wrong sometimes even catastrophic results This work a research submitted to Texas A M in 2009 freely downloadable from www.tamu.edu is an attempt to provide basic steps in the candidate selection and evaluation while screening for MPD applications Basic understanding of Drilling and Petroleum Engineering will help Real-Time Analytics in Managed Pressure Drilling Dhivakar Poosapadi,2024-11-15 Managed Pressure Drilling MPD is revolutionizing the oil and gas industry by optimizing efficiency improving safety and supporting environmental sustainability Through real time data analytics MPD enables precise control over drilling parameters reducing risks and minimizing incidents This innovative approach empowers operators to make informed timely adjustments enhancing wellbore stability while meeting regulatory and environmental standards Featuring case studies and insights into best practices this resource provides valuable knowledge for professionals seeking to leverage MPD s transformative potential in complex drilling environments **Design, Development and Control of a Managed Pressure Drilling Setup** Al Amin,2017 Drilling in challenging conditions require precise control over hydrodynamic parameters for safer and efficient operation in oil and gas industries Automated managed pressure drilling MPD is one of such drilling solution which helps to maintain operational parameters effectively over conventional drilling technique The main goal is to maintain bottomhole pressure between reservoir formation pressure and fracture pressure with kick mitigation ability Real life MPD system has to confront nonlinearity induced by drilling fluid rheology and flow parameters To obtain a better understanding of this operation a lab scale experimental setup has been developed Reynolds number and pressure drop per unit length were considered to obtain hydrodynamic similarity A vertical concentric pipe arrangement has been used to represent the drill string and annular casing region A linearized gain switching proportional integral PI controller and a nonlinear model predictive controller NMPC have been developed to automate the control operation in the experimental setup A linearizer has been designed to address the choke nonlinearity Based on the flow and pressure criteria a gain switching PI controller has been developed which is able to control pressure and flow conditions during pipe extension pump failure and influx attenuation cases On the other hand a nonlinear Hammerstein Weiner model has been developed which

assists in bottomhole pressure estimation using pump flow rate and choke opening The identified model has been integrated with a NMPC algorithm to achieve effective control within predefined pressure and flow constraints Lastly a performance comparison has been provided between the linearized gain switching PI controller and NMPC controller Real Time Kick Estimation and Monitoring in Managed Pressure Drilling System M. Musab Habib,2020 The influx of reservoir fluid kick has a significant impact on drilling operations Unmitigated kick can lead to a blowout causing financial losses and impacting human lives on the rig Kick is an unmeasured disturbance in the system and so detection estimation and mitigation are essential for the safety and efficiency of the drilling operation Our main objective is to develop a real time warning system for a managed pressure drilling MPD system In the first part of the research an unscented Kalman filter UKF based estimator was implemented to simultaneously estimate the bit flow rate and kick The estimated kick is further used to predict the impact of the kick Optimal control theory is used to calculate the time to mitigate the kick in the best case scenario An alarm system is developed based on total predicted influx and pressure rise in the system and compared with actual well operation control matrix Thus the proposed method can estimate monitor and manage kick in real time enhancing the safety and efficiency of the MPD operation So a robust warning framework for the operators based on real life operational conditions is created in the second part of the research Proposed frameworks are successfully validated by applying to several case studies **Managed Pressure Drilling** Mahdi Kalantari Meybodi,Jamshid Moghadasi,2016-07-09 **Nonlinear Model Predictive Control for a Managed Pressure Drilling with High-fidelity Drilling Simulators** Junho Park,2018 The world s energy demand has been rapidly increasing and is projected to continue growing for at least the next two decades With increasing global energy demand and competition from renewable energy the oil and gas industry is striving for more efficient petroleum production Many technical breakthroughs have enabled the drilling industry to expand the exploration to more difficult drilling such as deepwater drilling and multilateral directional drilling For example managed pressure drilling MPD offers ceaseless operation with multiple manipulated variables MV and wired drill pipe WDP provides two way high speed measurements from bottom hole and along string sensors These technologies have maximum benefit when applied in an automation system or as a real time advisory tool The objective of this study is to investigate the benefit of nonlinear model based control and estimation algorithms with various types of models This work presents a new simplified flow model SFM for bottomhole pressure BHP regulation in MPD operations The SFM is embedded into model based control and estimation algorithms that use model predictive control MPC and moving horizon estimation MHE respectively This work also presents a new Hammerstein Wiener nonlinear model predictive controller for BHP regulation Hammerstein Wiener models employ input and output static nonlinear blocks before and after linear dynamics blocks to simplify the controller design The control performance of the new Hammerstein Wiener nonlinear controller is superior to conventional PID controllers in a variety of drilling scenarios Conventional controllers show severe limitations in MPD because of the

interconnected multivariable and nonlinear nature of drilling operations BHP control performance is evaluated in scenarios such as drilling pipe connection kick attenuation and mud density displacement and the efficacy of the SFM and Hammerstein Wiener models is tested in various control schemes applicable to both WDP and mud pulse systems Trusted high fidelity drilling simulators are used to simulate well conditions and are used to evaluate the performance of the controllers using the SFM and Hammerstein Wiener models The comparison between non WDP semi closed loop and WDP full closed loop applications validates the accuracy of the SFM under the set of conditions tested and confirms comparability with model based control and estimation algorithms The SFM MPC maintains the BHP within 1 bar of the setpoint for each investigated scenario including for pipe connection and mud density displacement procedures that experience a wider operation range than normal drilling

Applied Gaseous Fluid Drilling Engineering Boyun Guo, Yingfeng Meng, Na Wei, 2021-09-23 Applied Gaseous Fluid Drilling Engineering Design and Field Case Studies provides an introduction on the benefits of using gaseous fluid drilling engineering In addition the book describes the multi phase systems needed along with discussions on stability control Safety and economic considerations are also included as well as key components of surface equipment needed and how to properly select equipment depending on the type of fluid system Rounding out with proven case studies that demonstrate good practices and lessons from failures this book delivers a practical tool for understanding the guidelines and mitigations needed to utilize this valuable process and technology Helps readers gain a framework of understanding regarding the basic processes technology and equipment needed for gaseous fluid drilling operations Highlights benefits and challenges using drilling flow charts photos of relevant equipment and table comparisons of available fluid systems Presents multiple case studies involving successful and unsuccessful operations

A Proactive Drilling System to Prevent Stuck Pipe and Differential Sticking Ethar Hisham Khalil Alkamil, 2018 During drilling operations for the E oilfield in the Mishrif formation in southern Iraq stuck pipe and differential sticking have been identified as significant geomechanical and drilling problems for several deviated wells In this work an integrated approach with three phases is presented to serve as a proactive geo drilling system to prevent wellbore instability In the first phase a comprehensive geomechanical assessment of the Mishrif formation has been carried out to evaluate the in situ stresses maximum horizontal stress orientation pore pressure rock properties and rock strength parameters Moreover the geomechanical evaluation has been incorporated into the mud design using three rock failure criteria the Mohr Coulomb Mogi Coulomb and Modified Lade In the second phase the feasibility of using managed pressure drilling MPD in oilfield E the Mishrif formation with a narrow mud window between collapse pressure and differential sticking has been evaluated MPD provides the fully automated capability to maintain nearly constant bottomhole pressure by varying the surface backpressure thus compensating for pressure fluctuations during drilling operations The MPD approach yields several operational benefits such as increasing rate of penetration managing surge and swab related pressure fluctuations and maintaining hole cleaning efficiency which helps

prevent stuck pipe In the third phase of this work the geomechanical model well geometry the hydraulic model and drilling parameters sensitivity on the stresses distribution around the wellbore and the mud design are combined as inputs to a novel image processing approach to estimate the collapse volume This approach can help the drilling operation engineers in evaluating the mud weight effect on stuck pipe problems in real time based on the estimated collapse volume and the drilling system hole cleaning efficiency Abstract page iv

Optimization of Drilling Operations Via Implementing Multi-phase Managed Pressure Drilling (MPD) in Low Pressure Formations in Kurdistan Oil Fields Salar Jaladet Mohammed Saleh, 2019

Most of Kurdistan formations are characterized by being naturally fractured carbonate rocks at low pressure environments Therefore implementing conventional drilling operations are considered to be difficult since it may increase the fractures and hence increase the loss in circulation Traditional Air Drilling or also known by Performance Drilling PD Underbalanced Drilling UBD and Managed Pressure Drilling MPD techniques are implemented which are considered to be more suitable drilling techniques than the conventional drilling operations in Kurdistan formations Multi phase Managed Pressure Drilling Multi Phase MPD term was coined to describe the necessity to continue drilling operations in massive fluctuation conditions between massive losses of drilling fluids and massive gains of influxes from formations This research is based on the available data by DNO Company's field in Zakho Kurdistan north of Iraq where aerated drilling is used to drill through a 17 5 hole section The current research simulates the drilling conditions in aerated mud in order to obtain the best results via drilling at open hole conditions and comparing the results with conventional drilling operations It suggests an alternative solution via drilling with mist and foam mud as well as simulating these drilling fluids aerated mist and foam with additional surface back pressure SBP Furthermore it provides a comparative analysis between Conventional or Overbalanced Drilling OBD Performance Drilling PD Underbalanced Drilling UBD as well as Managed Pressure Drilling MPD In order to acquire a more precise work for the complicated calculations associated with the multi phase mixture compressible fluids two licensed software are used to carry out the simulation for the research under Weatherford company supervision Wellflow which is a software that belongs to Neo Tec Schlumberger is used to simulate for aerated mud in both drilling scenarios With SBP and Without SBP On the other hand WUNDERDRILL which is software that belongs to Weatherford is used to simulate for mist and foam in both drilling scenarios With SBP and Without SBP AutoCAD is used to sketch the drilling flow chart which summarizes the drilling process related to different scenarios based on the results and analysis obtained It was concluded that drilling with foam via implementing additional surface back pressure SBP Scenario B in an underbalanced situation will provide the best results in comparison with mist foam at open hole conditions without SBP Scenario A and aerated mud in both scenarios With SBP and without SBP as well as conventional drilling particularly for minimizing the loss in circulation and enhancing the rate of penetration ROP It was also found out that drilling via aerated mud with additional surface back pressure SBP enables further precise control on the wellbore instability issues as well as influxes

Advanced Control of

Managed Pressure Drilling Anirudh Nandan, 2016 Automation of managed pressure drilling MPD enhances the safety and increases efficiency of drilling and that drives the development of controllers and observers for MPD The objective is to maintain the bottom hole pressure BHP within the pressure window formed by the reservoir pressure and fracture pressure and also to reject kicks Practical MPD automation solutions must address the nonlinearities and uncertainties caused by the variations in mud flow rate choke opening friction factor mud density etc It is also desired that if pressure constraints are violated the controller must take appropriate actions to reject the ensuing kick The objectives are addressed by developing two controllers a gain switching robust controller and a nonlinear model predictive controller NMPC The robust gain switching controller is designed using H1 loop shaping technique which was implemented using high gain bumpless transfer and 2D look up table Six candidate controllers were designed in such a way they preserve robustness and performance for different choke openings and flow rates It is demonstrated that uniform performance is maintained under different operating conditions and the controllers are able to reject kicks using pressure control and maintain BHP during drill pipe extension The NMPC was designed to regulate the BHP and contain the outlet flow rate within certain tunable threshold The important feature of that controller is that it can reject kicks without requiring any switching and thus there is no scope for shattering due to switching between pressure and flow control That is achieved by exploiting the constraint handling capability of NMPC Active set method was used for computing control inputs It is demonstrated that NMPC is able to contain kicks and maintain BHP during drill pipe extension

Egentlige Relation aff Londen, om den Kongelig Croning Caroli II. som skeede den 26. Aprilis 1661, 1661 Applied Drilling Circulation Systems Boyun Guo, Gefe Liu, 2011-04-21 Used to clean the borehole stabilize rock control pressures or enhance drilling rates drilling fluids and their circulation systems are used in all phases of a drilling operation These systems are highly dynamic and complicated to model until now Written by an author with over 25 years of experience Applied Drilling Circulation Systems Hydraulics Calculations and Models provide users with the necessary analytical numerical models to handle problems associated with the design and optimization of cost effective drilling circulation systems The only book which combines system modeling design and equipment Applied Drilling Circulation Systems Hydraulics Calculations and Models provides a clear and rigorous exposition of traditional and non traditional circulation systems and equipment followed by self contained chapters concerning system modelling applications Theories are illustrated by case studies based on the author's real life experience The book is accompanied by a website which permits readers to construct validate and run models employing Newtonian fluids Bingham Plastic fluids Power Law fluids and aerated fluids principles This combination book and website arrangement will prove particularly useful to drilling and production engineers who need to plan operations including pipe tripping running in casing and cementing In depth coverage of both on and offshore drilling hydraulics Methods for optimizing both on and offshore drilling hydraulics Contains problems and solutions based on years of experience

Underbalanced Drilling: Limits and Extremes Bill Rehm, Arash

Haghshenas, Amir Saman Paknejad, Abdullah Al-Yami, Jim Hughes, 2013-11-25 The present crude oil and natural gas reservoirs around the world have depleted conventional production levels To continue enhancing productivity for the remaining mature reservoirs drilling decision makers could no longer rely on traditional balanced or overbalanced methods of drilling Derived from conventional air drilling underbalanced drilling is increasingly necessary to meet today's energy and drilling needs While more costly and extreme underbalanced drilling can minimize pressure within the formation increase drilling rate of penetration reduce formation damage and lost circulation making mature reservoirs once again viable and more productive To further explain this essential drilling procedure Bill Rehm an experienced legend in drilling along with his co editors has compiled a handbook perfect for the drilling supervisor Underbalanced Drilling Limits and Extremes written under the auspices of the IADC Technical Publications Committee contain many great features and contributions including Real case studies shared by major service companies to give the reader guidelines on what might happen in actual operations Questions and answers at the end of the chapters for upcoming engineers to test their knowledge Common procedures typical and special equipment involved and most importantly the limits and challenges that still surround this technology

Pressure Drilling Mpd System Cnpc Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Pressure Drilling Mpd System Cnpc**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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