

Well Control Simulator

M. A. Cuenod

Development of a Multiphase Flow Simulator for Drilling Applications Sebastian

Calvache Mejia, 2017 Drilling, or gas kick, simulators are becoming prevalent in industry due to their ability to replicate wellbore conditions that are not feasible in a laboratory setting. This is becoming more desirable as deeper wells are being explored. One of the biggest dangers that could happen during drilling operations is the onset of a gas kick. This occurs when a zone in the formation whose pressure is higher than that of the wellbore is breached. This allows for the undesired influx of formation fluids into the wellbore. If left uncontrolled, it could develop into a blowout. Gas kick simulators allow for testing of procedures that could be used to contain kicks at such depths. Furthermore, the use of drilling simulators could provide more insight into other phenomena. These include wellbore breathing and fracture ballooning, that cause similar kick symptoms at the surface and lead to expensive misdiagnosis, and the dissolution of gas into oil based mud, which could delay the identification of a kick. This thesis investigates the development of the initial integration of a drilling simulator into UTWELL, the wellbore simulator program developed at The University of Texas at Austin, by implementing a gas kick module. The transport equations of mass and momentum conservation were discretized using a Semi-Implicit Homogeneous Method over a one dimensional staggered grid. The multiphase phenomena were modelled using a Drift Flux approach as opposed to a mechanistic, two fluid approach. This was due to increased stability of the solution and faster computation time, despite the risk of losing accuracy. The simulator was successful at simulating single phase flows for fluids with distinct rheology models, and with wellbores with discontinuities in the geometry. When attempting to simulate the well control of a gas kick in water based mud, the results were mixed. Attempt at simulating a 'Floating Mud Cap' method failed due to the simulator's inability to perform drainage functions that allow for the raising and lowering of the mud level in the wellbore. However, the simulator was successful at capturing the behaviour of the gas kick as it entered and migrated through the wellbore, matching literature results. The simulator was compared to experimental data gathered from a test well. Three different scenarios were tested: No Drillstring, Semi-Submerged Drillstring and Drillstring at the Bottom. In all three cases, there was a good match between the experimental and simulation results for the bottomhole and choke pressures. The pit gain was severely overestimated in the 'No Drillstring' and 'Semi-Submerged Drillstring Case', however this was due to a higher influx of simulated gas having entered the wellbore during simulations. The drillstring at the Bottom' simulation matched well with all data and with other simulators. Recommendations included full integration and testing of a compositional model to simulate oil based mud cases, implementation of automatic choke control and special flux splitting techniques in the discretization in order to better handle pressure waves caused by discontinuities.

Modern Advances in Software and Solution Algorithms for Reservoir

Simulation Rami Mustafa Younis, 2011 As conventional hydrocarbon resources dwindle, and environmentally-driven markets start to form and mature, investments are expected to shift into the development of novel emerging subsurface process technologies. While these processes are characterized by a high commercial potential, they are also typically associated with high technical risk. The time-to-market along comparable development pipelines, such as for Enhanced Oil Recovery (EOR) methods in the Oil and Gas sector, is on the order of tens of years. It is anticipated that in the near future, there will be much value in developing simulation tools that can shorten time-to-market cycles, making investment shifts more attractive. There are two forces however that may debilitate us from delivering simulation as a scientific discovery tool. The first force is the growing nonlinearity of the problem base. The second force is the flip-side of a double edged sword; a rapidly evolving computer architecture scene. The first part of this work concerns the formulation and

linearization of nonlinear simultaneous equations; the archetypal inflexible component of all large scale simulators. The proposed solution is an algorithmic framework and library of data-types called the Automatically Differentiable Expression Templates Library (ADETL). The ADETL provides generic representations of variables and discretized expressions on a simulation grid, and the data-types provide algorithms employed behind the scenes to automatically compute the sparse analytical Jacobian. Using the library, large-scale simulators can be developed rapidly by simply writing the residual equations, and without any hand differentiation, hand crafted performance tuning loops, or any other low-level constructs. A key challenge that is addressed is in enabling this level of abstraction and programming ease while making it easy to develop code that runs fast. Faster than any of several existing automatic differentiation packages, faster than any purely Object Oriented implementation, and at least in the order of the execution speed of code delivered by a development team with hand-optimized residuals, analytical derivatives, and Jacobian assembly routines. A second challenge is in providing a generic multi-layered software framework that incorporates plug-in low-level constructs tuned to emerging architectures. The inception of the ADETL spurred an effort to develop the new generation AD-GPRS simulator, which we use to demonstrate the powers of the ADETL. We conclude with a thought towards a future where simulators can write themselves. The second part of this work develops nonlinear methods that can exploit the nature of the underlying physics to deal with the current and upcoming challenges in physical nonlinearity. The Fully Implicit Method offers unconditional stability of the discrete approximations. This stability comes at the expense of transferring the inherent physical stiffness onto the coupled nonlinear residual equations that are solved at each timestep. Current reservoir simulators apply safe-guarded variants of Newton's method that can neither guarantee convergence, nor provide estimates of the relation between convergence rate and timestep size. In practice, timestep chops become necessary, and they are guided heuristically. With growing complexity, convergence difficulties can lead to substantial losses in computational effort and prohibitively small timesteps. We establish an alternate class of nonlinear iteration that converges and that associates a timestep to each iteration. Moreover, the linear solution process within each iteration is performed locally. Several challenging examples are presented, and the results demonstrate the robustness and computational efficiency of the proposed class of methods. We conclude with thoughts to unify timestepping and iterative nonlinear methods.

Code of Federal Regulations ,1995

The Code of Federal Regulations of the United States of America ,1992 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

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

Federal Register ,1978-12

Sustainable Natural Gas Drilling David Wood,Jianchao Cai,2024-03-15 Sustainable Natural Gas Drilling, the latest release in The Fundamentals and Sustainable Advances in Natural Gas Science and Engineering series, delivers many of the technical fundamentals needed in the natural gas industry with an additional sustainability lens. Introductory topics include underbalanced technologies, well integrity, and well trajectory. Advanced applications include utilizing nanoparticles to reduce environmental impact, and techniques to drill for underground gas storage and carbon capture operations. Supported by corporate and academic contributors along with two well-distinguished editors, Sustainable Natural Gas Drilling provides today's natural gas engineers the knowledge to adjust current drilling practices in a more environmentally sustainable way. Accelerate emissions with case studies and visuals to illustrate how new principles can be applied in practical situations Understand innovative advances that are leading to improved environmental performance Bridge from theory to application with worldwide contributors representing academia and industry

Fossil Energy Update ,1977

Unconventional Shale Gas Development Rouzbeh G. Moghanloo,2022-02-23

Unconventional Shale Gas Development: Lessons Learned gives engineers the latest research developments and practical applications in today's operations. Comprised of both academic and corporate contributors, a balanced critical review on technologies utilized are covered. Environmental topics are presented, including produced water management and sustainable operations in gas systems. Machine learning applications, well integrity and economic challenges are also covered to get the engineer up-to-speed. With its critical elements, case studies, history plot visuals and flow charts, the book delivers a critical reference to get today's petroleum engineers updated on the latest research and applications surrounding shale gas systems. Bridges the gap between the latest research developments and practical applications through case studies and workflow charts Helps readers understand the latest developments from the balanced viewpoint of academic and corporate contributors Considers environmental and sustainable operations in shale gas systems, including produced water management

Computer Aided Design of Control Systems M. A. Cuenod,2014-05-19 Computer Aided Design of Control Systems focuses on the use of computers to analyze and design the control of various processes, as well as the development of program packages with different algorithms for digital computers. The selection first takes a look at the computer aided design of minimal order controllers, including design of interacting and noninteracting dynamic controllers of minimal order and basic algorithm. The book then discusses an accelerated Newton process to solve Riccati equation through matrix sign function; suboptimal direct digital control of a trickle-bed absorption column; and structural design of large systems employing a geometric approach. The text underscores the computer as an aid for the implementation of advanced control algorithms on physical processes and analysis of direct control algorithms and their parallel realization. Topics include hardware influences on the control, process influence, and interactive structure design of direct control systems. The book also takes a look at the optimal control of randomly sampled linear stochastic systems; computer aided design of suboptimal test signals for system identification; and computer aided design of multi-level systems with prescribed structure and control constraints. The selection is a dependable source of data for readers interested in the uses of computers.

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

Blowout Prevention and Well Control Chambre syndicale de la recherche et de la production du pétrole et du gaz naturel. Sous-commission Forage, 1981 Contents: 1. Reasons for and indications of well kicks and blowouts. 2. The drilling program. 3. Preparation for drilling equipment selection and staff training. 4. The detection of abnormally pressured zones. 5. Kick control procedures. 6. Driller's procedures and well control work sheets. 7. Special procedures for floating drilling vessels. 8. Procedures for complex situations.

Practical Well Control Jim Fitzpatrick, 1991

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

What Every Engineer Should Know about Software Engineering Philip A.

Laplace, 2007-04-25 Do you Use a computer to perform analysis or simulations in your daily work? Write short scripts or record macros to perform repetitive tasks? Need to integrate off-the-shelf software into your systems or require multiple applications to work together? Find yourself spending too much time working the kink

SPE Computer Applications, 1997

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

Petroleum Engineer International, 1987

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.

Title 30 Mineral Resources Parts 200 to 699 (Revised as of July 1, 2013) Office of The Federal Register, Enhanced by IntraWEB, LLC,2014-07-01 The Code of Federal Regulations Title 30 contains the codified United States Federal laws and regulations that are in effect as of the date of the publication pertaining to U.S. mineral resources, including: coal mining and mine safety; surface mining, fracking and reclamation; offshore oil, gas and sulphur drilling, safety, oil spills response; minerals leasing and revenues from public lands.

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