

## Horizontal completion



## Vertical completion



Sea floor

Surficial sediment

Overburden/  
cap sediment

Gas hydrate  
bearing strata

Underburden sediment

# Well Completion Design

**IM Harris**



## Well Completion Design:

*Well Completion Design* Jonathan Bellarby, 2009-04-13 Completions are the conduit between hydrocarbon reservoirs and surface facilities They are a fundamental part of any hydrocarbon field development project They have to be designed for safely maximising the hydrocarbon recovery from the well and may have to last for many years under ever changing conditions Issues include connection with the reservoir rock avoiding sand production selecting the correct interval pumps and other forms of artificial lift safety and integrity equipment selection and installation and future well interventions Course book based on course well completion design by TRACS International Unique in its field Coverage of offshore subsea and landbased completions in all of the major hydrocarbon basins of the world Full colour Well Completion and Servicing Denis Perrin, 1999 This book provides technical information on well completion from drilling in the pay zone to production start up It also covers the main methods for artificial lift and well servicing The reader will find a discussion of the concepts and equipment that are indispensable for scheduling and designing completion and servicing operations The book's chief objective is to provide comprehensive information to those who require a thorough understanding of the completion engineer's aims and the resources he needs for oil field development and production It is particularly well suited to the needs of the specialist whose field of activity is located upstream from oil and gas production e.g. geologists geophysicists and reservoir drilling or production facility engineers It should also be of use to oil company administrative personnel including those in management and those in the insurance and legal departments The text is fully illustrated thus helping the reader grasp the basics of this highly technical field Contents 1 Introduction to completion 1 1 Main factors influencing completion design 1 2 Overall approach to a well's flow capacity 1 3 Major types of completion configurations 1 4 Main phases in completion 2 Connecting the pay zone and the borehole 2 1 Drilling and casing the pay zone 2 2 Evaluating and restoring the cement job 2 3 Perforating 2 4 Treating the pay zone 2 5 The special case of horizontal wells 3 The equipment of naturally flowing wells 3 1 General configuration of flowing well equipment 3 2 The production wellhead 3 3 The production string or tubing 3 4 Packers 3 5 Downhole equipment 3 6 Subsurface safety valves 3 7 Running procedure 4 Artificial lift 4 1 Pumping 4 2 Gas lift 4 3 Choosing an artificial lift process 5 Well servicing and workover 5 1 Main types of operations 5 2 Light operations on live wells 5 3 Heavy operations on live wells 5 4 Operations on killed wells 5 5 Special cases Bibliography Index *Well Completion Design* Jonathan Bellarby, 2005\* **Completion Design for Oil Well in Kurdistan Region** Hero Salam Kaka Hama, 2017 The main issues behind selecting the best methods of completion design are to stabilize the flow around the well bore and direct the fluid in the production tubing or any development processes Some procedures are used before take the decision whether the well is completed or not Knowing the reservoir characteristics we can decide which methods of completion to be used This led to better production optimizations which will affect the cost management Completion design process plays an important role on well productivity well servicing capability and completion life These in consequence have

a large impact on cost and field profit This research project discusses well completion design overview including the design consideration completion phase and material selection that should be taken in consideration in order to get the best completion design which gives a best production rate and future well optimization It s also generally describe the basic of completion process and typically well completion problems which include mechanical failure chemical and erosion failure

**PE301** David A.T. Donohue,1987 Proceedings ... SPE Annual Technical Conference and Exhibition Society of Petroleum Engineers (U.S.). Technical Conference and Exhibition,1997 *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 *Advanced Well Completion Engineering* Renpu Wan,2011-08-23 Once a natural gas or oil well is drilled and it has been verified that commercially viable it must be completed to allow for the flow of petroleum or natural gas out of the formation and up to the surface This process includes casing pressure and temperature evaluation and the proper instillation of equipment to ensure an efficient flow out of the well In recent years these processes have been greatly enhanced by new technologies Advanced Well Completion Engineering summarizes and explains these advances while providing expert advice for deploying these new breakthrough engineering systems The book has two themes one the idea of preventing damage and preventing formation from drilling into an oil formation to putting the well introduction stage and two the utilization of nodal system analysis method which optimizes the pressure distribution from reservoir to well head and plays the sensitivity analysis to design the tubing diameters first and then the production casing size so as to achieve whole system optimization With this book drilling and production engineers should be able to improve operational efficiency by applying the latest state of the art technology in all facets of well completion during development drilling completion and work over operations One of the only books devoted to the key technologies for all major aspects of advanced well completion activities Unique coverage of all aspects of well completion activities based on 25 years in the exploration production and completion industry Matchless in depth technical

advice for achieving operational excellence with advance solutions     **Petroleum Abstracts** ,1993     **SPE Drilling & Completion** ,2009     **Oceanology International 80** ,1980     **Modern Completion Technology for Oil and Gas Wells**  
Ding Zhu,Kenji Furui,2018-06-01 The latest oil and gas well completion technologies and best practices Increase oil and gas production and maximize revenue generation using the start to finish completion procedures contained in this hands on guide Written by a pair of energy production experts Modern Completion Technology for Oil and Gas Wells introduces each technique shows how it works and teaches how to deploy it effectively You will get full explanations of the goals of completion along with detailed examples and case studies that clearly demonstrate how to successfully meet those goals Modern production methods such as hydraulic fracturing acid simulation and intelligent well completions are thoroughly covered Coverage includes Functions and goals of oil and gas well completion Well completion fundamentals Completion impact in near wellbore region to inflow performance Completions for fracturing Completions for acid stimulation Intelligent well completion downhole monitoring and flow control Completion designs for production and injection optimization  
   **Hart's E&P.** ,2005-07     **Oilfield Review** ,2000     **Proceedings [of The] Drilling Conference** ,1994     *Quarterly Bulletin of the Canadian Mining Institute* Canadian Institute of Mining and Metallurgy,Canadian Institute of Mining, Metallurgy and Petroleum,1928     **Journal of Petroleum Technology** ,1990     Sessional Papers of the Dominion of Canada Canada. Parliament,1912 Report of the Dominion fishery commission on the fisheries of the province of Ontario 1893 issued as vol 26 no 7 supplement     **Official Report of Debates, House of Commons** Canada. Parliament. House of Commons,1912     **Official Reports of the Debates of the House of Commons of the Dominion of Canada** Canada. Parliament. House of Commons,1912

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