

E.2 Critical Parameters for Well Performance Analysis

For a well performance analysis, it is important to identify those items that are critical for the study.

The critical step is to obtain the best match between the simulated production data from the reservoir/flow model output and the current well performance. A good match clearly indicates that the well data and the reservoir parameters used are as close as possible to their true values.

When a match is obtained, the engineer can discuss the possible ways to improve the performance of the candidate well.

The model will also be used to predict the well production after the appropriate treatment and, thus, the proper data for the economic analysis will be generated.

The critical reservoir parameters needed for the well performance analysis include (Figure 3-1)

- Group 1
 - average porosity
 - net pay height
 - reservoir fluid saturations
- Group 2
 - reservoir fluid characteristics
 - initial reservoir pressure
 - reservoir drainage radius
- Group 3
 - average reservoir pressure
 - average net pay permeability
 - existence of fissures or fractures and their characteristics
 - skin factor.

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Gas Well Testing Handbook Amanat Chaudhry, 2003-08-07 Gas Well Testing Handbook deals exclusively with the theory and practice of gas well testing including pressure transient analysis technique analytical methods required to interpret well behavior evaluating reservoir quality reservoir simulation and production forecasts A highly practical volume this book is written for drilling engineers well logging engineers reservoir engineers engineering students geologists and geophysicists
BOOK JACKET

Working Guide to Reservoir Engineering William Lyons, 2009-09-16 Working Guide to Reservoir Engineering provides an introduction to the fundamental concepts of reservoir engineering The book begins by discussing basic concepts such as types of reservoir fluids the properties of fluid containing rocks and the properties of rocks containing multiple fluids It then describes formation evaluation methods including coring and core analysis drill stem tests logging and initial estimation of reserves The book explains the enhanced oil recovery process which includes methods such as chemical flooding gas injection thermal recovery technical screening and laboratory design for enhanced recovery Also included is a discussion of fluid movement in waterflooded reservoirs Predict local variations within the reservoir Explain past reservoir performance Predict future reservoir performance of field Analyze economic optimization of each property Formulate a plan for the development of the field throughout its life Convert data from one discipline to another Extrapolate data from a few discrete points to the entire reservoir

Electrical Submersible Pumps Manual Gabor Takacs, 2009-04-20 Ideal for removing large amounts of liquids from wells Electrical Submersible Pumps ESP are perhaps the most versatile and profitable pieces of equipment in a petroleum company's arsenal However if not properly maintained and operated they could quickly become an expensive nightmare The first book devoted to the design operation maintenance and care Electrical Submersible Pumps Manual delivers the tools and applicable knowledge needed to optimize ESP performance while maximizing of run life and the optimization of production The perfect companion for new engineers who need to develop and apply their skills more efficiently or experienced engineers who wish further develop their knowledge of best practice techniques this manual covers basic electrical engineering hydraulics and systems analysis before addressing pump components such as centrifugal pumps motors seals separators and cables In addition the author includes comprehensive sections on analysis and optimization monitoring and trouble shooting and installation design and installation under special conditions Apply the best operating practices to optimise production Track and troubleshoot problems such as gas solids and corrosion Prevent expensive failures such as cable burn and impeller cavitation Design and analyze a system using up to date computer programs Establish ESP analysis monitoring methods and strategies Ensure optimum operator vendor relationship for mutual benefits

Springer Handbook of Petroleum Technology Chang Samuel Hsu, Paul R. Robinson, 2017-12-20 This handbook provides a comprehensive but concise reference resource for the vast field of petroleum technology Built on the successful book Practical Advances in Petroleum Processing published in 2006 it has been extensively revised and

expanded to include upstream technologies The book is divided into four parts The first part on petroleum characterization offers an in depth review of the chemical composition and physical properties of petroleum which determine the possible uses and the quality of the products The second part provides a brief overview of petroleum geology and upstream practices The third part exhaustively discusses established and emerging refining technologies from a practical perspective while the final part describes the production of various refining products including fuels and lubricants as well as petrochemicals such as olefins and polymers It also covers process automation and real time refinery wide process optimization Two key chapters provide an integrated view of petroleum technology including environmental and safety issues Written by international experts from academia industry and research institutions including integrated oil companies catalyst suppliers licensors and consultants it is an invaluable resource for researchers and graduate students as well as practitioners and professionals

Vault Guide to the Top Energy Industry Employers Tyra N. Turner, 2005-01-24 This guide provides business profiles hiring and workplace culture information on more than 30 top employers

29th European Symposium on Computer Aided Chemical Engineering Anton A. Kiss, Edwin Zondervan, Richard Lakerveld, Leyla Özkan, 2019-06-28 The 29th European Symposium on Computer Aided Process Engineering contains the papers presented at the 29th European Symposium of Computer Aided Process Engineering ESCAPE event held in Eindhoven The Netherlands from June 16 19 2019 It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Presents findings and discussions from the 29th European Symposium of Computer Aided Process Engineering ESCAPE event

Petroleum Engineer's Guide to Oil Field Chemicals and Fluids Johannes Fink, 2021-03-14 Petroleum Engineer's Guide to Oil Field Chemicals and Fluids Third Edition delivers all the necessary lists of chemicals by use their basic components benefits and environmental implications Instead of searching through various sources this updated reference presents a one stop non commercialized approach by organizing products by function matching the chemical to the process for practical problem solving and extending coverage with additional resources and supportive materials Updates include shale specific fluids and organic additives including swellable polymers and multi walled carbon nanotubes Covering the full spectrum including fluid loss additives and oil spill treating agents this book is ideal for every oil and gas operation with its options for lower costs sustainable use and enhanced production Helps readers effectively locate and utilize the right chemical application specific to their oil and gas operation Includes updated sections on shale specific fluids defoamers and organic additives including biodegradable waste and swellable polymers Covers environmental factors and risks for oil field chemicals along with the pluses and minuses of each application

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The Concise Industrial Flow Measurement Handbook Michael A. Crabtree,2019-11-11 The Concise Industrial Flow Measurement Handbook A Definitive Practical Guide covers the complete range of modern flow measuring technologies and represents 40 years of experiential knowledge within a wide variety of industries and from more than 5000 technicians and engineers who have attended the author s workshops This book covers all the current technologies in flow measurement including high accuracy Coriolis ultrasonic custody transfer and high accuracy magnetic flowmeters The book also discusses flow proving and limitations of different proving methods This volume contains over 300 explanatory drawings and graphs and is presented in a form suitable for both the beginner with no prior knowledge of the subject as well as the more advanced specialist This book is aimed at professionals in the field including chemical engineers process engineers

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2 6 fabrication related activities structural steel arrives at the job site as a fabricated ready to assemble product however prior to delivering the steel to the project site a considerable amount of activity is undertaken by the steel fabricator steel contractor the fabricator has the following primary responsibilities as identified

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