

# Principles Of Artificial Lift

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The Oil and Gas Journal  
A Techno-economic Analysis of Artificial Lift Technique Selection in the Petroleum Industry  
Oil & Gas Journal  
Introduction to Oilwell Service and Workover  
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the book principles of artificial lift explains the basics and fundamentals as well as the recent technology advancements in the field of artificial lift of producing oil and gas wells this book is written primarily for production engineers and petroleum engineering college students of senior level as well as graduate level although the purpose of this book is to help as well as teaching artificial lift it is supposed to be useful as a reference book to the engineers performing artificial application in petroleum industries we recognize that the topic of principle of artificial lift is not complete without a basic understanding of the concept regarding well inflow performance and multiphase flow in pipes this inflow performance is being elaborated in easiest manner at very beginning of the book regarding presentation this book focuses on presenting and illustrating engineering principles used for designing and analyzing well bore lifting systems rather than in depth reservoir engineering theories since the material of this book is virtually boundless in depth knowing what to omit was greatest difficulty with its editing many of the industry known basic formula are used instead of deriving the same

this book describes reservoir production cycle natural lift artificial lift natural lift artificial lift reservoir underbalanced and over balanced conditions and natural lift condition the main lift obstacles artificial lift function the artificial lift systems such the sucker rod pumping system diagram component and process the down stroke the up stroke changing pressures the fluid level the main ways to adjust pumping rates pump off controllers free gases then gas lift consist of advantages disadvantages the gas lifts assembly the mandrels gas lift process other configurations gas lift and esp electric submersible pumping also other types of artificial lift such the power oil systems pcg progressing cavity pumps plunger lift and finally hydraulic or jet pump in common this book also describe generally about selecting an artificial lift method such selecting an artificial lift based on reservoir

characteristics hole characteristics surface characteristics and field operating characteristics

this book details the major artificial lift methods that can be applied to hydrocarbon reservoirs with declining pressure these include the sucker rod pump gas lift electrical submersible pump progressive cavity pump and plunger lift the design and applications as well as troubleshooting are discussed for each method and examples exercises and design projects are provided in order to support the concepts discussed in each chapter the problems associated with oil recovery in horizontal wells are also explored and the author proposes solutions to address the various extraction challenges that these wells present the book represents a timely response to the difficulties associated with unconventional oil sources and declining wells offering a valuable resource for students of petroleum engineering as well as hydrocarbon recovery researchers and practicing engineers in the petroleum industry

artificial lift methods are used to maximize the production rate so selecting the proper one is a must or a loss of capital and damage to the well may occur this paper will go through the different types of the artificial lift systems showing their advantages and disadvantages furthermore it will discuss each of the method s operational mechanism also this project will go through an assessment of three wells using gas lift and electrical submersible pumps esp to show which one is more suitable the assessment will be based on the outcomes of data analysis using computer software pipesim

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