

ORIGINAL RESEARCH

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Integrated approach for the optimal selection of environmentally friendly drilling systems

Ok-Youn Yu^{1*}, Zenon Medina-Cetina², Seth D Guikema², Jean-Louis Braud² and David Burnett²

Abstract

There is a pressing need in the energy industry to develop technologies capable of reducing the environmental impact during oil and gas drilling operations. However, these technologies have not been fully integrated into a decision-making system that can reflect a quantitative effort toward this goal. This paper introduces two quantitative decision methods for the selection of environmentally friendly drilling systems. One is based on a multi-attribute utility approach and the other one is based on the analysis of interventions or causal approach. To illustrate the applicability of the proposed methods and to contrast their benefits and limitations, a case study is presented using data collected from Green Lake at McFaddin, TX, USA.

Keywords: Comparative analysis, Environmentally friendly drilling, Decision-making, Multi-attribute utility, System selection, Intervention, Causal approach

Background

One of the current goals of the oil and gas industry is to minimize the environmental impact during drilling operations. This is because an effective management of the environmental impacts during drilling operation has proven to lead to a greater access of reserves in environmentally sensitive areas, particularly those classified as 'off-limits' [1-3]. As a consequence, a significant number of Environmentally Friendly Drilling (EFD) technologies continue to emerge, but these have not been integrated into a decision-making method capable of combining them to define an optimal drilling system for specific conditions on a given site. In practice, the major challenge is to select the best combination of EFD technologies based on a set of competing evaluation criteria. In this paper, a 'system' will be defined as a set of EFD technologies.

From an engineering perspective, the civil infrastructure needed to complete a drilling operation may strongly condition its success (e.g., access and maintenance of roads, power supply, water availability and management of residuals, traffic and noise control). This interaction is exacerbated when the drilling operations

expand on large areas, and at a rapid pace, threatening the sustainability of the inherent civil infrastructure.

A number of studies have introduced decision support systems for the selection of drilling well locations [4-7]. A few studies on the best practices on the use of EFD technologies are also available such as in the case of drilling waste discharge [8] and in the design of cementing [1]. However, to the best knowledge of the authors, there are few precedents on a quantitative decision-making method for the integral selection of standard drilling systems.

This work aims at introducing a decision-making evaluation protocol to find the optimal EFD system for a given drilling site and also discusses the sensitivity of the inherent input parameters with respect to the expected outcomes. A search algorithm is proposed as the basis of a multi-attribute utility model combined with an exhaustive enumeration of all available technology combinations. This work hypothesizes that optimal decision-making on EFD technology selection can be achieved by an integrated approach, which allows decision-makers to minimize the environmental impact, to maximize the expected profits, to account for the influence of public perception, and, most importantly, to guarantee the operation's safety [9,10].

To support this hypothesis, two competing methods for the selection of EFD systems are presented in this

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Integrated Rfid Model For Optimal Selection Of Drilling

Ying Liu



Integrated Rfid Model For Optimal Selection Of Drilling:

Systems Approach and Quantitative Decision Tools for Technology Selection in Environmentally Friendly

Drilling Ok Y. Yu,2010 One of the petroleum industry s goals is to reduce the environmental impact of oil and gas operations in environmentally sensitive areas To achieve this a number of Environmentally Friendly Drilling EFD technologies have been developed to varying degrees For example the use of an elevated platform as an alternative to the gravel pad is less intrusive and leads to a more environmentally friendly approach to drilling operations Elevated drilling platforms will require the use of piles Another alternative to the gravel pad is the use of composite mats Since the demand of low impact technologies for drill site construction has rapidly increased the parametric study for the feasibility of using pile foundations and composite mats is conducted in this research Even though a number of EFD technologies have already been developed to varying degrees few have been integrated into a field demonstrable drilling system i e combination of technologies compatible with ecologically sensitive areas In general it is difficult to select the best combination of EFD technologies for a given site because there are many possible combinations and many different evaluation criteria The proposed technology evaluation method is based on a systems analysis that can be used for integrating current and new EFD technologies into an optimal EFD system An optimization scheme is suggested based on a combination of multi attribute utility theory and exhaustively enumerating all possible technology combinations to provide a quantitative rationale and suggest the best set of systems according to a set of criteria with the relative importance of the different criteria defined by the decision maker In this research the sensitivity of the optimal solution to the weight factors and the effects of the uncertainty of input scores are also discussed using a case study An application of the proposed approach is described by conducting a case study in Green Lake at McFaddin TX The main purpose of this case study is to test the proposed technology evaluation protocol in a real site and then to refine the protocol This research describes the results of the case study which provided a more logical and comprehensive approach that maximized the economic and environmental goals of both the landowner and the oil company leaseholder

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Table of Contents Integrated Rfid Model For Optimal Selection Of Drilling

1. Understanding the eBook Integrated Rfid Model For Optimal Selection Of Drilling
 - The Rise of Digital Reading Integrated Rfid Model For Optimal Selection Of Drilling
 - Advantages of eBooks Over Traditional Books
2. Identifying Integrated Rfid Model For Optimal Selection Of Drilling
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Integrated Rfid Model For Optimal Selection Of Drilling
 - User-Friendly Interface
4. Exploring eBook Recommendations from Integrated Rfid Model For Optimal Selection Of Drilling

- Personalized Recommendations
 - Integrated Rfid Model For Optimal Selection Of Drilling User Reviews and Ratings
 - Integrated Rfid Model For Optimal Selection Of Drilling and Bestseller Lists
5. Accessing Integrated Rfid Model For Optimal Selection Of Drilling Free and Paid eBooks
 - Integrated Rfid Model For Optimal Selection Of Drilling Public Domain eBooks
 - Integrated Rfid Model For Optimal Selection Of Drilling eBook Subscription Services
 - Integrated Rfid Model For Optimal Selection Of Drilling Budget-Friendly Options
 6. Navigating Integrated Rfid Model For Optimal Selection Of Drilling eBook Formats
 - ePub, PDF, MOBI, and More
 - Integrated Rfid Model For Optimal Selection Of Drilling Compatibility with Devices
 - Integrated Rfid Model For Optimal Selection Of Drilling Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Integrated Rfid Model For Optimal Selection Of Drilling
 - Highlighting and Note-Taking Integrated Rfid Model For Optimal Selection Of Drilling
 - Interactive Elements Integrated Rfid Model For Optimal Selection Of Drilling
 8. Staying Engaged with Integrated Rfid Model For Optimal Selection Of Drilling
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Integrated Rfid Model For Optimal Selection Of Drilling
 9. Balancing eBooks and Physical Books Integrated Rfid Model For Optimal Selection Of Drilling
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Integrated Rfid Model For Optimal Selection Of Drilling
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Integrated Rfid Model For Optimal Selection Of Drilling
 - Setting Reading Goals Integrated Rfid Model For Optimal Selection Of Drilling
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Integrated Rfid Model For Optimal Selection Of Drilling

- Fact-Checking eBook Content of Integrated Rfid Model For Optimal Selection Of Drilling
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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