

Operational risks are a key component of overall enterprise risk management, and information plays a key role in reducing them. Oil and gas companies, like any other capital-intensive ...

These technical advances include continuous improvements in rotary steerable systems (RSS), development of higher specification drilling rigs, and migration of ...

The article discusses innovative methods to optimize drilling rig efficiency through advanced materials, real-time data, automation, skilled operation, and safety measures to ...

Drilling operations risk assessment is a critical component of ensuring the safety and success of drilling projects. By identifying potential hazards, evaluating their likelihood and ...

The oil and gas industry is rapidly evolving, and one of the most transformative technologies driving this change is the digital twin. A digital twin is a virtual replica of a physical ...

Valaris recognized that the first step toward reducing risk was to review potential vulnerabilities on its extensive rig networks. To mitigate ...

A systematic analysis of occupational health and safety implementation in reducing accident risks on drilling rigs through risk control strategies: A review article

A complete drilling safety risk management system can also be gradually developed in the process of risk identification, record, report, ...

The oil and gas industry is no stranger to innovation, and modular automation technology represents the next significant leap forward in drilling ...

Renewable energy integration, such as solar powered drilling rigs and electric drilling equipment, further contributes to reducing greenhouse gas emissions and reliance on fossil fuels in ...

As discussed in part I of this work, the wellhead is an important component in the context of well integrity and operational safety, as it serves ...

Heavy machinery, complex drilling operations, and the remoteness of rigs all increase the safety risk to crews working there. While it's not possible to eliminate the risk of ...

Digital twins optimize drilling strategies, reducing errors and enhancing performance. Remote operations



Reducing drilling rig operational risks

minimize human risk and improve ...

This document contains a hazard and risk assessment register with 228 items divided into 8 sections corresponding to operational phases. It ...

Learn how to identify and assess the risks of drilling operations so you can put a safety management system in place to help reduce these risks.

Reduce rig time and carbon footprint with innovative well construction solutions that optimize operations, enhance safety, and manage risks effectively.

Automated drilling systems are reducing the need for manual intervention, minimizing risks to workers. Additionally, remote operations are ...

Reducing Non-Productive Time (NPT) is critical for cost optimization in offshore drilling operations, where operational efficiency ...

With innovative drilling solutions, Parker Wellbore enhances operational safety as well, while also reducing drilling rig operational risks. Our project management ...

Drilling Hazard Prevention (DHP) Planning-stage predictive analytics that identify geological and operational hazards to reduce non-productive time

In terms of rig expenses, the quantity is defined by the number of drilling days, while the price corresponds to the daily operational rate (ODR) of the rig as stipulated in the ...

Despite its critical role in global energy supply, offshore drilling also presents environmental and safety challenges, including risks of oil spills, habitat disruption, and high operational hazards.

Managed pressure drilling (MPD) has become a cornerstone of advanced offshore operations, as it offers unparalleled safety and efficiency advantages when drilling high-risk, complex wells. ...

Abstract The failures of drilling operation in oil and gas fields may cause big economic losses owing to several technical consequences such as safety incidents, ...



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