



# Drilling rig systems ppt

What makes up a drilling rig?

This document provides an introduction to drilling rigs and drilling technology. It discusses the key systems that make up a drilling rig, including the rig system, power system, mud handling system, hoisting system, rotary system, well control system, and instrumentation system.

What are the major systems of drilling rigs?

The document outlines the major systems of drilling rigs, including the power, circulation, rotary, hoisting, and well control systems.

What are the components and functions of a drilling system?

Each system is described with its components and functions, such as the power system powering the rig, the circulation system managing drilling fluids, and the well control system preventing undesired fluid release. Additionally, it briefly mentions future topics related to drilling bits.

What is rig system?

RIG SYSTEM Generic word used in two ways:- A plant /unit for drilling a hole in the ground. OR A machinery system which is used to make a hole in the ground. OR A system which is composed (made) of various mechanical & electrical sub systems /equipments for drilling a hole into the ground.

What is a rotary rig?

Rotary Drilling Process Rotary table rotates the drill string Downward force applied to the bit Cuttings are lifted to the surface by circulating a fluid down the drill string. Main Component Parts of a Rotary Rig are:- 1. Power System 2. Hoisting System 3. Fluid Circulating System 4. Rotary System 5. Well Control System 6.

What are the different types of drilling technologies?

It also discusses drilling technologies such as mud, casing, rigs, hydraulics, bits, drilling, cementing, and special technologies like directional drilling. Finally, it outlines the main operations involved in drilling a well, from rig building to well head fitting and testing. 1. WELCOME 2. INTRODUCTION TO DRILLING 4. DRILLING RIG 5.

This document provides an overview of basic oilwell drilling techniques. It discusses the history and evolution of drilling including increasing rig sizes ...

This document discusses the design of a drilling rig with an emphasis on safety. It outlines several key points:

1) The machines should be designed to help ...

This document provides an overview of rotary drilling rig systems and components. It defines what a drilling



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rig is and lists various acronyms used in drilling operations.

The power system on drilling rig usually consists of a prime mover as the source of raw power and some means to transmit the raw power to the end-use equipment.

This document provides information about various types of offshore drilling rigs, including their key components, specifications, evolution over generations, ...

Drilling is a critical process in various industries, including construction, oil and gas, and manufacturing, where precision and efficiency are paramount. ...

The drilling rig holds the main components for drilling work. It consists of: 1) A power supply system that provides energy via engines, generators or electric ...

Rig components - Free download as Powerpoint Presentation (.ppt), PDF File (.pdf), Text File (.txt) or view presentation slides online. The document ...

This monotone PowerPoint icon depicts an oil pump drilling rig. It is perfect for presentations on the oil and gas industry, drilling operations, and the energy ...

Hoisting System Presentation - Free download as Powerpoint Presentation (.ppt / .pptx), PDF File (.pdf), Text File (.txt) or view presentation slides online. This ...

The document outlines the major systems of drilling rigs, including the power, circulation, rotary, hoisting, and well control systems.

The document summarizes different types of drilling methods, including cable tool drilling and rotary drilling. It describes the components and systems used in ...

This document provides an overview of rig operations and equipment used in drilling wells. It describes the personnel involved in drilling, including the tool ...

- o The essential functions of rotary drilling rigs are hoisting, rotating, circulating and controlling and powering.
- o The rigs consist of portable machinery and ...

The Drawworks is one of the most important components of the drilling rig (types of drilling rigs). The unit supplies the hoisting power, the ...

Hoisting System - Free download as Powerpoint Presentation (.ppt / .pptx), PDF File (.pdf), Text File (.txt) or view presentation slides online. The hoisting system supports the rotating system ...



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56. Power system POWER SYSTEM The prime movers in a rotary drilling rig are those pieces of equipment that provide the power to the entire rig. Recently, ...

Rotary drilling relies on the continuous rotation of sharp drill bits to break rock and drill down through the Earth's crust. A rotary drilling rig consists of four main ...

Petroleum Drilling Engineering: Is the application of science and technology to drill Oil Wells, which are holes in the earth, made for the purpose of extracting oil and gas from hydrocarbon ...

Hoisting system: The hoisting system on a drilling rig does the heavy lifting on the rig. It is used to raise, lower, and suspend the drill string and lift casing and tubing for installation into the well.

This document discusses various types of offshore drilling rigs and operations. It describes inland barges, jackup rigs, platform rigs, and floating rigs like semi ...

This document provides an introduction to drilling rigs and drilling technology. It discusses the key systems that make up a drilling rig, including the rig system, ...

The circulation system on the rig is the system that allows for circulation of the Drilling Fluid or Mud down through the hollow drill string and up through the ...

Introduction to Drilling - Free download as Powerpoint Presentation (.ppt), PDF File (.pdf), Text File (.txt) or view presentation slides online. This document ...

The document describes the components and functioning of two types of rotating systems used in drilling rigs: the kelly system and the top drive system. The kelly system uses a kelly, kelly ...

This monotone PowerPoint icon depicts an oil pump drilling rig. It is perfect for presentations on the oil and gas industry, drilling operations, and the energy sector. The icon is simple and ...

The document discusses rig equipment maintenance and inspection. It describes the operating environments and major systems of drilling rigs like the power, ...

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Drilling rigs are complex assemblies of equipment used to create boreholes, typically for natural gas or oil extraction. A typical rig requires 50-75 people ...



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Understanding the main systems of a drilling rig is essential for safe operations and effective well construction. Key systems include the hoisting system, rotary system, circulation system, well ...

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