



Drilling rig components slideshare

What are the basic rig components?

By: Bilal Shams Memon. Basic rig components. Derrick & Mast. Substructure. Prime movers. Draw works. Mud pumps. Drill String. Bits. Drilling Line. Auxiliary & Miscellaneous Equipments. Rotary drilling's basic rig components.

What are the functions of a drill rig?

Functions: Control of centre from which driller operates the rig. It contains clutches, chains, rope sockets, engine throttles & other controls which enables rig power to be diverted to the particular operation. It houses the drum which spools the drilling line during hoisting operations & allows feed off during drilling.

What are rotary drilling rig components?

Rotary drilling's basic rig components Structure: Derrick (main component) is a steel structure of sufficient height & strength. Functions: Supports all equipments & provides vertical clearance to raising & lowering the drill string into & out of hole during drilling operations. Types: Standard. Portable. 1. Derrick & Mast

What is a drill rig made of?

Structure: made of steel (like a thread) on which flexible drilling line is folded. Functions: Control of centre from which driller operates the rig. It contains clutches, chains, rope sockets, engine throttles & other controls which enables rig power to be diverted to the particular operation.

How much power does a drilling rig use?

Function: generates power about 400-800KW (depending upon rig size, well depth & engine size). Supporting Operations: power consumed in mud pumps, draw works, crew cabins, continuous drilling operations, etc. Bulk of power is consumed by: Circulation of drilling fluid. Hoisting.

What are the different types of drilling rigs?

DRILLING RIGS AND RIG TYPES. 2. A Drilling Rig cement water, oil and gas wells. 3. Types of Rigs 4. Offshore rigs 1. Floating rigs: 2. Bottom-supported rigs: There are three types:

2.2 rig components 1. Introduction to well drilling Rig Components Well Drilling 2. Light rigs, down to 2,000 m Medium rigs, to 4,000 m Heavy ...

This document provides details on the components of an oil drilling rig, including mud tanks, shale shakers, and other equipment. It describes the purpose and ...

The document describes the key subsystems that make up an offshore drilling rig. It discusses the rig's legs and jacking system which allow it to be raised and ...



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This document provides an overview of drilling equipment used on oil rigs. It discusses various components of the rig including rig pumps, solids control ...

This document discusses drilling equipment used on oil and gas rigs. It describes major components including the rig itself, which is the machine used to drill ...

57. Power system POWER SYSTEM Some rotary rigs may use electricity directly from power lines. Most rotary rigs these days require 1,000 to 3,000 ...

It details the components such as drawworks, kelly, and blowout preventers, and discusses the importance of well control systems in maintaining safety during drilling. Additionally, the ...

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

The document outlines the roles and responsibilities of drilling engineers, detailing various components and systems of drilling rigs, including hoisting, power, ...

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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 systems: 1) a prime mover ...

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This presentation outlines the various types of drilling rigs, including onshore and offshore rigs, detailing their design, capabilities, and specific uses. Onshore ...

This document provides an overview of rotary drilling rig systems and components. It defines what a drilling rig is and lists various acronyms 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 pusher, driller, derrick worker, ...

The document provides details about basic mud logging and rig components for both land and offshore rigs. It describes key rig components like the derrick, ...

8. Rotary Drilling Rig Components 2. Power and Prime Movers Internal combustion engine or a turbine that is



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the source of power for driving ...

The document provides a comprehensive overview of drilling operations, focusing on hoisting and rotating systems, various equipment, and their functions. It ...

The document describes the main components of a rotary drilling rig, which include: 1) The derrick or mast and substructure, which provides the structural ...

Drilling is the process of making holes into hard surfaces like rock. In surface mining, drilling is used for blast hole drilling, core drilling for exploration, and technical drilling. Rotary blast hole ...

Specifically, it details the company's drilling buckets, drilling augers, and kelly bars. It provides specifications, applications, features, and technical details for ...

This document provides an overview of basic drilling engineering. It discusses the types of drilling including rotary, cable tool, and coil tubing drilling. It describes ...

The document provides a comprehensive overview of drilling engineering, focusing on the history, types of drilling rigs, the roles of various drilling ...

This document provides an overview of drilling rigs, including their main components, classifications, and applications. Drilling rigs are machines that create holes in the earth's ...

This document provides details on the components of an oil drilling rig, including mud tanks, shale shakers, and other equipment. It describes the purpose and function of each component. The ...

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 ...

This document provides an overview of the key components that make up a rotary drilling rig. It describes 9 main components: 1) the derrick or mast and ...

Rotary drilling rigs use a hoisting system to lower and raise the drill string. To estimate rotary torque before drilling, an empirical relation uses factors like ...



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