



# Drilling rig components ppt

What components are used in oil and gas drilling rigs?

The document defines and describes various components used in oil and gas drilling rigs. It includes definitions of components like the top drive, mast/derrick, drill pipe, doghouse, blowout preventer, mud pumps, shale shakers, drawworks, drill bit, kelly, rotary table, slips, and others.

What are the parts of a drilling rig?

It contains the clutches, chains, sprockets, engine throttles and other controls that enable the rig power to be diverted to the part of the operations at hand. It also houses the drum that spools the drilling line during hoisting operations and allows feed-off during drilling.

What are the components of a drill?

It includes definitions of components like the top drive, mast/derrick, drill pipe, doghouse, blowout preventer, mud pumps, shale shakers, drawworks, drill bit, kelly, rotary table, slips, and others. It provides brief descriptions of what each component is and its purpose in the drilling process. Crows Nest fDrilling Line fMonkeyboard

How do drilling rigs work?

Drilling rigs create boreholes that are used in natural gas extraction. A rig that can drill a 10,000ft (3km) well requires 50-75 people, 35-45 semi-trucks to move and assemble it. Drilling operations continue 24hrs and 7 days for almost full year.

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:

What kind of engine does a drilling rig use?

Rig Engines or Prime Movers. Internal Combustion Engines are commonly used, ranging from 500 to 3000hp, depending upon the size and rating of the rig. Draw Works. The Draw Work is the hoisting mechanism on the drilling rig enabling heavy loads to be raised or lowered by means of wire rope wound on a drum. 4. Kelly and Kelly Bushing.

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 ...

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The document discusses components of a drilling rig used to drill oil and gas wells. It describes key



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components including the derrick/mast, power systems, hoisting components like the ...

The document describes the key components of a rotary drilling rig, which are broken into 9 categories: 1) derrick or mast and substructure, 2) power and ...

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 horsepower, while shallow drilling rigs ...

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

The document provides a comprehensive guide on the components and systems involved in oil well drilling, focusing on hoisting and derrick systems. It details ...

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.

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

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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 ...

Rotary Drilling Rig Components.ppt - Free download as Powerpoint Presentation (.ppt), PDF File (.pdf), Text File (.txt) or view presentation slides online. The document provides an overview of ...

Drilling Rig Components Rig Power System Prime movers as the source of power and a means to transmit the raw power to the end use equipment. The current industry uses ...

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



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RIG COMPONENTS-Definitions 1. Gin Pole - An A frame structure located at the top of standard derricks used to lift and lower the crown block into position. 2. Water Table -The water table is ...

This document outlines the components of a drilling rig, including subsurface equipment like casings, drill pipes, drill collars, and bits. It describes the ...

A drilling rig is a machine that creates holes in the ground, such as for water wells, oil wells, or gas extraction wells. Drilling rigs can be large stationary ...

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

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A drilling rig in which the source of power is one or more internal combustion engine and in which power is distributed to rig components through devices such as chains, sprockets, clutches ...

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

Mud pumps A large, high-pressure reciprocating pump used to circulate the mud on a drilling rig. with 2 or 3 pistons (duplex or triplex pumps), may be single - or dual acting, and receive their ...

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The document discusses components of a drilling rig used to drill oil and gas wells. It describes key components including the derrick/mast, power systems, ...

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Rotary Drilling Rig Components.ppt [6klz33veqq4g]. ...Rig Operations Presentation Rotary Drilling Rig Components 1. Derrick or Mast and Substructure 2. Power and Prime Movers 3. Hoisting ...

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 historical development of ...



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