

1, Crown Block

A device comprised of sheaves or pulleys at the top of the mast over which drilling line is run down to the hoisting drum.

2, Derrick Board

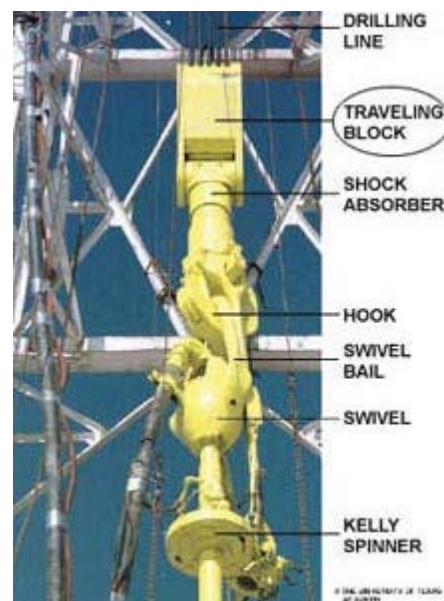
A platform near the top of the mast on which the derrick man works. Also called a "Monkey board".

3, Mast

A portable metal tower that is raised into working position as a unit rather than assembled (as a derrick). A mast is used as a component of the hoisting system of a drilling rig.

4, Travelling block

An arrangement of pulleys or sheaves suspended in with wire rope and is used to raise and lower



a derrick

equipment in the well.

5, Top drive

A power swivel which rotates the drill string without the use of a rotary table or Kelly. Is efficient due to its ability to drill three joints deep before another connection must be added.

6, Mouse hole

A hole in the drilling floor, 7-10 inches wide, located near the rotary table. It is used to store a place of drill pipe until it is pulled up and attached to the drill string.

7, Hydraulic hoists

Also known as an "air hoist". A small cable crane that lifts pipe and equipment up the v door. Also used to hoist personnel for maintenance on the top drive.

8, Mud return line

A pipe which carries the circulated drilling mud from the mud pumps to the wellbore.

9, Mud-gas separator

A vessel that is attached to the mud flow line to remove gases from the circulated mud when drilling through a high pressure gas zone.

10, Shale shakers

A series of vibrating screens used to remove the earth cuttings from the circulating fluids from the wellbore.

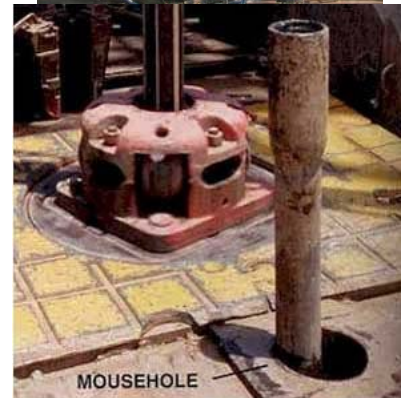
11, Mud system

The equipment that separates the earth cuttings coming out of the wellbore and continues the circulating fluid back to the wellbore.

12, Mud pit

Also known as a "reserve pit". An open excavation near the drilling rig that holds used or waste mud and cuttings.

13, Company man's quarters





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The trailer in which the representative of the operator of the well offices and resides while on location.

14, Tool pusher's quarters

The trailer in which the rig manager (also called rig superintendent or rig foreman) offices and resides while on location.

15, Rig hands quarters

The trailer in which the drilling crew resides when off-duty.

Company man's quarters



Belly Boards



Dog Houses



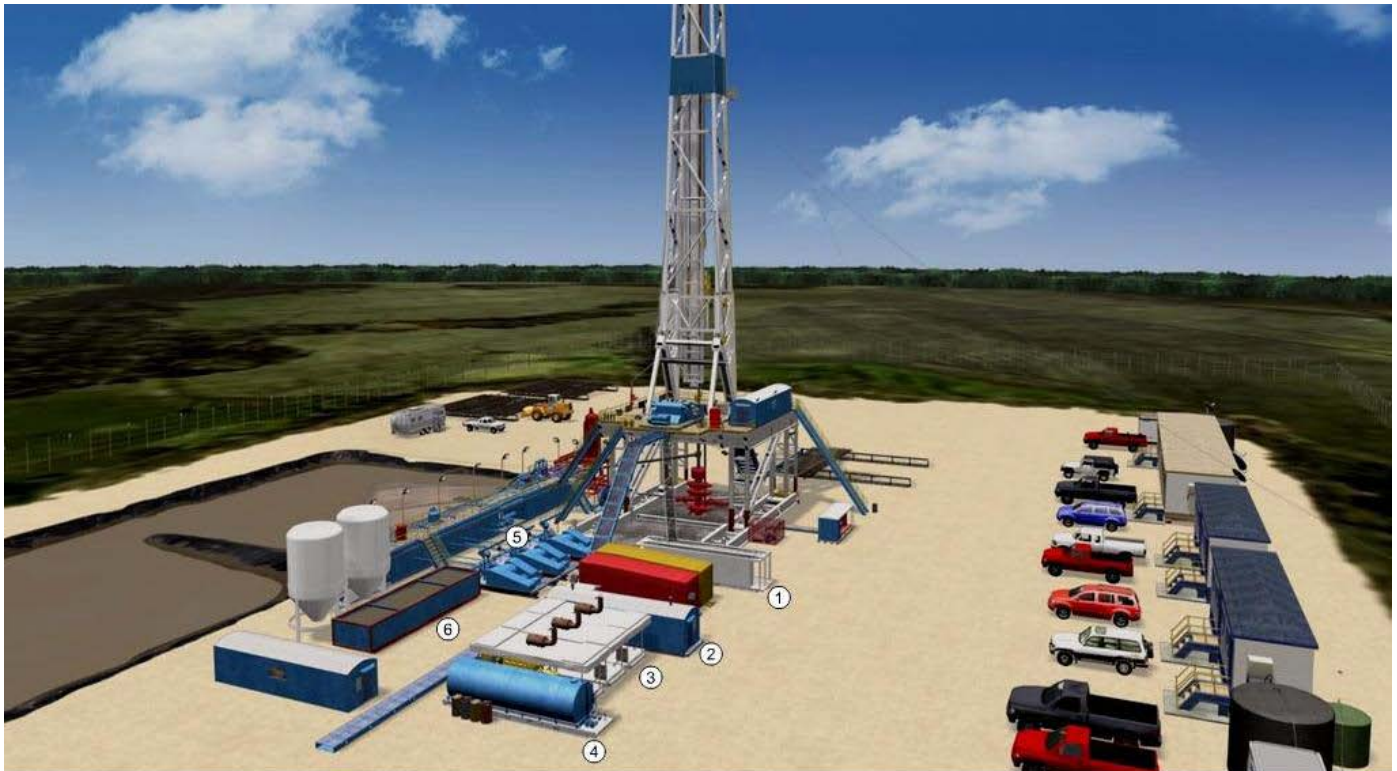
Mud Tanks



Drill Line Spoolers



Water Tanks



1, SCR house/Top drive

An electrical housing unit which balances and controls the energy used to power the top drive.

2, SCR house/generator

An electrical housing unit in close proximity to the generator which balances and controls the energy used to power the rig site. Also called a breaker house.

3, Engine/generator set

Fueled most commonly by diesel, the engine converts fuel combustion into motion. The motion is then converted to electricity by the generator and is used as a power source for various drillsite components.

4, Fuel tank

Storage tanks that hold the diesel fuel used for the power system.

5, Mud pumps

A set of two or three piston driven pumps that are used to move circulating fluids on a rotary drilling rig.

6, Water tank

Stores water that is needed for various on the drill site including: circulating, cementing, cooling and cleaning.



1, Standpipe

A seamless, vertical steel pipe attached to one leg of the mast which carries drilling mud up to the rotary hose and swivel.

2, Iron roughneck

A hydraulic powered wrench which can make up or break out pipe joints by applying correct torque. Most of the manual pipe-handing operations previously performed by the drilling crew on the rig floor have been replaced by this piece of equipment.

3, Rotary table

A motorized circular platform in the floor of the rig which rotates the Kelly bushing and Kelly when the top drive is not in use. Turning the Kelly turns all the pipe, therefore, turns all the pipe, therefore, drilling the hole.

4, Drawworks

A large winch located on the drilling floor which uses steel wire rope to raise and lower the drilling equipment in the well.

5, Driller's console

A control panel on the drilling floor used to monitor drilling operations such as weight, speed, pressure and torque.

6, BOP controller

A control panel on the drilling floor which can remotely and independently operate each preventer on the BOP stack.

7, Doghouse

A small building on the rig floor which is used as the driller's office. It also reserves as shelter for the drilling crew and storage for tools and small equipment.



8, BOP stack

Stands for blowout preventer stack. This piece of equipment is attached to the wellhead under the rig floor and utilizes vertically arranged closing elements to either close off the well or control the release of fluids to and from the wellbore.

9, Cellar

A pit around the wellhead which provides space for the installation of equipment at the top of the wellbore such as the BOP stack. Water and waste fluids also accumulate in the cellar for disposal.



10, Substructure

The steel platform and supports on which the mast and all drilling floor equipment sit. Also provides space for well control equipment and storage by elevating drilling floor components.

11, Choke manifold

A series of pipes and valves that functions to control pressures experienced during a kick once the blowout preventers are closed.

12, Catwalk

A long, flat, steel platform where pipe is laid before it is pulled up through the v door and placed into the mouse hole.

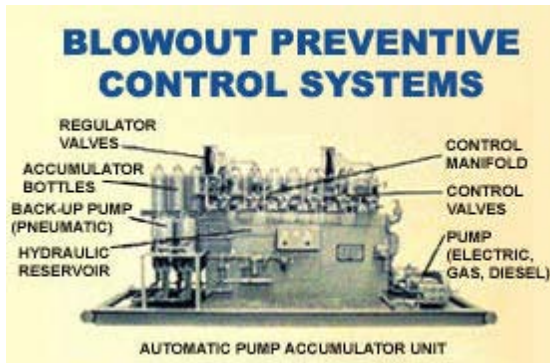


13, Pipe racks with drill pipe

Steel platforms placed next to the rig near the catwalk that hold reserve drill pipe.

14. Accumulator

A tank which holds hydraulic fluid stored under pressure by compressed nitrogen. An accumulator is used to actuate the blowout preventer.



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