

WHAT IS CLAIMED IS:

1. A deadman test circuit for testing a functionality of a shearing blowout preventer, the deadman test circuit comprising:

a solenoid valve (64) configured to be electrically controlled and to receive a fluid under a first pressure;

a sub plate mounted valve (62) configured to be hydraulically controlled by the solenoid valve (64) and to receive the fluid under a second pressure; and

a selector valve (94) fluidly connecting an output of the sub plate mounted valve (62) to a shearing ram blowout preventer (BOP) (80) and to a device (96),

wherein the selector valve (94) is configured to be operated by an operator.

2. The deadman test circuit of Claim 1, wherein the selector valve is electrically controlled by the operator or is controlled by a remote operated vehicle.

3. The deadman test circuit of Claim 1, wherein the selector valve is configured to be opened by default for the shearing ram BOP.

4. The deadman test circuit of Claim 1, further comprising:

a MUX pod configured to host the solenoid valve, the sub plate mounted valve and the selector valve.

5. The deadman test circuit of Claim 1, wherein the selector valve is provided on a lower marine riser package that is configured to be provided at an end of a riser.

6. The deadman test circuit of Claim 1, wherein the selector valve is provided on a blowout preventer stack that is configured to be provided on a wellhead.

7. The deadman test circuit of Claim 1, further comprising:
the device, wherein the device is one of a non-shearing blowout preventer, an accumulator, a cylinder having a rod configured to exit the cylinder and to indicate a pressure inside the cylinder, or a pressure sensor.

8. A blowout preventer assembly for sealing a well head, the assembly comprising:

a lower marine riser package (56) configured to be provided at an end of a riser and to be lowered undersea;

a MUX pod (60) attached to the lower marine riser package (56) and configured to receive a fluid under a first pressure, the MUX pod (60) including,

a solenoid valve (64) configured to be electrically controlled and to receive a fluid under a second pressure, and

a sub plate mounted valve (62) configured to be hydraulically controlled by the solenoid valve (64) and to receive the fluid under the first pressure; and
a selector valve (94) fluidly connecting an output of the sub plate mounted valve (62) to a shearing ram blowout preventer (BOP) (80) and to a device (96),
wherein the selector valve (94) is configured to be operated by an operator.

9. The assembly of Claim 8, further comprising:

a lower blowout preventer stack (58) configured to be attached to the lower marine riser package (56) and including at least the shearing ram BOP (80).

10. The assembly of Claim 8, wherein the selector valve is electrically controlled by the operator or is operated by a remote operated vehicle.

11. The assembly of Claim 8, wherein the selector valve is configured to be opened by default for the shearing ram BOP.

12. The assembly of Claim 8, wherein the selector valve is physically located on the lower marine riser package.

13. The assembly of Claim 8, wherein the selector valve is physically located on the lower blowout preventer stack.

14. The assembly of Claim 8, further comprising:
the device, wherein the device is one of a non-shearing ram blowout preventer, an accumulator, a cylinder having a rod configured to exit the cylinder and to indicate a pressure inside the cylinder, or a pressure sensor.

15. A blowout preventer (BOP) stack comprising:
plural ram blowout preventers (80, 82) including at least a shearing ram blowout preventer (80);
a device (96) configured to be actuated by a fluid under pressure; and

a selector valve (94) fluidly connected to the shearing ram BOP (80) and to the device (96),

wherein the selector valve (94) is configured to be operated by an operator to communicate either with the shearing ram BOP (80) or with the device (96).

16. The blowout preventer stack of Claim 15, wherein the device is one of a non-shearing ram blowout preventer, an accumulator, a cylinder having a rod configured to exit the cylinder and to indicate a pressure inside the cylinder, or a pressure sensor.

17. The blowout preventer stack of Claim 15, wherein the selector valve may be actuated by a remote operated vehicle.

18. A method for performing a deadman test on a shearing blowout preventer, the method comprising:

activating a selector valve (94) to disconnect a shearing blowout preventer (80) from a supply of a fluid under pressure such that the shearing ram blowout preventer (80) is inoperative;

providing the fluid under pressure to a pressure activated device (96);

generating information with regard to a pressure of the fluid under pressure inside the pressure activated device (96); and

transmitting the information to a storage device or an operator.

19. The method of Claim 18, further comprising:

configuring the selector valve to default to communicating with the shearing ram blowout preventer.

20. The method of Claim 18, further comprising:

activating the selector valve to connect the shearing ram blowout preventer to the supply of fluid under pressure; and

instructing the shearing ram blowout preventer to cut a tool present inside the shearing ram blowout preventer.

WHAT IS CLAIMED IS:

1. A deadman test circuit for testing a functionality of a shearing blowout preventer, the deadman test circuit comprising: a solenoid valve configured to be electrically controlled and to receive a fluid under a first pressure; a sub plate mounted valve configured to be hydraulically controlled by the solenoid valve and to receive the fluid under a second pressure; and a selector valve fluidly connecting an output of the sub plate mounted valve to a shearing ram blowout preventer (BOP) and to a device, wherein the selector valve is configured to be operated by an operator.

2. The deadman test circuit of claim 1, wherein the selector valve is electrically controlled by the operator or is controlled by a remote operated vehicle.

3. The deadman test circuit of claim 1, wherein the selector valve is configured to be opened by default for the shearing ram BOP.

4. The deadman test circuit of claim 1, further comprising: a MUX pod configured to host the solenoid valve, the sub plate mounted valve and the selector valve.

5. The deadman test circuit of claim 1, wherein the selector valve is provided on a lower marine riser package that is configured to be provided at an end of a riser.

6. The deadman test circuit of claim 1, wherein the selector valve is provided on a blowout preventer stack that is configured to be provided on a wellhead.

7. The deadman test circuit of claim 1, further comprising: the device, wherein the device is one of a non-shearing blowout preventer, an accumulator, a cylinder having a rod configured to exit the cylinder and to indicate a pressure inside the cylinder, or a pressure sensor.

8. A blowout preventer assembly for sealing a well head, the assembly comprising: a lower marine riser package configured to be provided at an end of a riser and to be lowered undersea; a MUX pod attached to the lower marine riser package and configured to receive a fluid under a first pressure, the MUX pod including, a solenoid valve configured to be electrically controlled and to receive a fluid under a second pressure, and a sub plate mounted valve configured to be hydraulically controlled by the solenoid valve and to receive the fluid under the first pressure; and a selector valve fluidly connecting an output of the sub plate mounted valve to a shearing ram blowout preventer (BOP) and to a device, wherein the selector valve is configured to be operated by an operator.

9. The assembly of claim 8, further comprising: a lower blowout preventer stack configured to be attached to the lower marine riser package and including at least the shearing ram BOP.

10. The assembly of claim 8, wherein the selector valve is electrically controlled by the operator or is operated by a remote operated vehicle.

11. The assembly of claim 8, wherein the selector valve is configured to be opened by default for the shearing ram BOP.

12. The assembly of claim 8, wherein the selector valve is physically located on the lower marine riser package.

13. The assembly of claim 9, wherein the selector valve is physically located on the lower blowout preventer stack.

14. The assembly of claim 8, further comprising: the device, wherein the device is one of a non-shearing ram blowout preventer, an accumulator, a cylinder having a rod configured to exit the cylinder and to indicate a pressure inside the cylinder, or a pressure sensor.

15. A method for performing a deadman test on a shearing blowout preventer, the method comprising: activating a selector valve to disconnect a shearing blowout preventer from a supply of a fluid under pressure such that the shearing ram blowout preventer is inoperative; providing the fluid under pressure to a pressure activated device; generating information with regard to a pressure of the fluid under pressure inside the pressure activated device; and transmitting the information to a storage device or an operator.

16. The method of claim 15, further comprising: configuring the selector valve to default to communicating with the shearing ram blowout preventer.

17. The method of claim 15, further comprising: activating the selector valve to connect the shearing ram blowout preventer to the supply of fluid under pressure; and instructing the shearing ram blowout preventer to cut a tool present inside the shearing ram blowout preventer.