Claims

1. A method of connecting a new subsea well to a subsea production system, the subsea production system comprising:

a subsea well, a subsea production flow system and a subsea manifold, wherein the subsea manifold comprises:

a first connector;

a second connector fluidly connected to the subsea production flow system;

a flowline header in fluid communication with the second connector;

a fluid access point located between the first connector and the flowline header and having first and second flow access openings;

a first flow path between the first connector and the first flow access opening of the fluid access point and a second flow path between the second flow access opening of the fluid access point and the flowline header; and

comprising a flow cap on the fluid access point;

wherein the method comprises:

fluidly connecting the subsea well to the first connector of the subsea manifold;

removing the flow cap from the fluid access point of the subsea manifold; and

connecting a removable module to the fluid access point of the manifold, the removable module comprising a first flow path configured to connect the first and second flow access openings such that the subsea well and the subsea production flow system are fluidly connected by the removable module.

2. The method according to claim 1, wherein the removable module comprises:
a body, a first connector and a second connector;
wherein the method comprises connecting the first and second connectors to the first and second flow access openings of the access point of the subsea manifold, respectively; and
wherein the first flow path is defined between the first connector and the second connector fluidly connecting the subsea well and the flowline header.

3. The method according to any preceding claim, wherein the removable module further comprises equipment and/or instrumentation configured to perform one or more functions selected from the group comprising: fluid control, fluid sampling, fluid

diversion, fluid recovery, fluid injection, fluid circulation, fluid access, fluid measurement, flow measurement and/or fluid metering.

4. The method according to any of claims any preceding claim, wherein the subsea manifold is a subsea Christmas tree, a subsea collection manifold system, a subsea well gathering manifold, a subsea distributed manifold system (such as an in-line tee (ILT)), a subsea Pipe Line End Manifold (PLEM), a subsea Pipe Line End Termination (PLET) and/or a subsea Flow Line End Termination (FLET).

5. The method according to any preceding claim, wherein the first connector of the subsea manifold is configured to receive production fluid from the subsea well and/or route a fluid into the subsea well.

6. The method according to any preceding claim, wherein the second connector of the subsea manifold is connected to an export production flowline of the flow system and/or a gas delivery flowline.

7. The method according to any preceding claim, wherein the removable module comprises at least one valve in the first flow path and wherein the method comprises controlling flow between the subsea well and the subsea production flow system by operating the at least one valve to selectively permit fluid to flow from the subsea well to the subsea production flow system and/or from the subsea production flow system to the subsea well.

8. The method according to claim 7, wherein the flowline header is a production flowline header and wherein the method comprises operating the at least one valve to control flow of production fluid from the subsea well to the production flowline header and subsea production system.

9. The method according to 7, wherein the flowline header is a gas lift flowline header and the method comprises operating the at least one valve to control flow of gas from the gas lift flowline header to the subsea well.

10. The method according to any preceding claim, wherein the fluid access point of the subsea manifold further comprises a third flow access opening, and wherein the manifold further comprises:

a third connector configured to be fluidly connected to the subsea production flow system;

a second flowline header in communication with the third connector; and

a third flow path between the third flow access opening of the fluid access point and the second flowline header;

and wherein the removable module further comprises a second flow path configured to connect the first and third fluid access openings such that the subsea well and the second flowline header are fluidly connected by the second flow path of the removable module.

11. The method according to claim 10, wherein the first flow path and/or the second flow path of the removable module comprises at least one valve and the method comprises operating the at least one valve in the first flow path and/or in the second flow path to control whether fluid from the subsea well flows into the first and/or the second production flowline headers.

12. The method according to claim 10, wherein the first and second flow paths of the removable module are fluidly connected.

13. The method according to claim 1, wherein the fluid access point of the subsea manifold further comprises third and fourth flow access openings, and wherein the manifold further comprises:

a third connector configured to be fluidly connected to the subsea well;

a fourth connector configured to be fluidly connected to the subsea production flow system;

a second flowline header in communication with the fourth connector;

a third flow path between the third connector and the third flow access opening of the fluid access point; and

a fourth flow path between the fourth flow access opening of the fluid access point and the second flowline header;

and wherein the removable module further comprises a second flow path connecting the third and fourth fluid access openings such that the subsea well and the second flowline header are fluidly connected by the second flow path of the removable module.

14. The method according to claim 13, wherein the flowline header is a production flowline header and the second flowline header is a gas lift flowline header.

15. The method according to claim 14, wherein the first flow path and/or the second flow path of the removable module comprises at least one valve and wherein the method comprises operating the at least one valve in the first flow path to selectively permit production fluid to flow from the subsea well to the subsea production flow system via the production flowline header (330) and/or operating the at least one valve in the second flow path to selectively control the flow of gas flow from the gas lift flowline header (332) to the subsea well.