The overall design philosophy is to minimize the equipment on the platform, thus minimizing the requirement for visiting the platform for operation and maintenance. Visits to the platform is planned limited to once a year except for unplanned well maintenance. Further, focus is on efficient and safe evacuation if for some reason a leakage and/or fire should occur during a visit.

Publication WO2016/122334 discloses an unmanned platform supported on a structure arranged on the seabed. The platform structure of the publication is standardized so that the same platform may be used on several installation structures.

Publication US2016/0221648 discloses a floating facility for offshore hydrocarbon production with drilling slots and production slots and a cart that is movable together with a drilling riser above the well bay to drill the well through the drilling riser.

GB2515021 discloses a support structure for use in an offshore platform. The support structure comprises a main support strut having one end anchored to the seabed and guide rail extending to the top of the support strut for cooperation with a framework with a payload slidably mountable to the guide rail for elevating the frame work and payload to the top of the structure.

None of the above publications do however discloses a platform structure for an unmanned platform that is adapted and designed for possible future expansion.

Summary of the Invention

According the present invention, an unmanned wellhead platform comprising at least one topside construction, a jacket design and adapted to be supported on the seabed and projecting above the sea level, which jacket includes a topside structure installed on top of said jacket, is provided. The topside structure is designed as a standardized base concept tailored for repetitive future topside constructions, each topside construction being adapted to the number of wells to be developed, the topside construction being made up by a number of different but standardized sections, each standardized section being dedicated

for a particular and predetermined purpose and location in said topside construction, said number of standardized sections (4) adopt different sizes and configurations, though grouped in sets of sections (4) having equal dimension.

In one embodiment, some of the standardized sections of the topside construction has defined well slots, each well slot having received its respective and unique number from one and up, each numbered well slot repeatedly receives the same location in the topside construction each time a base topside construction is constructed, hence “standardizing” such base topside construction.

The many standardized sections may adopt different sizes and configurations, though normally grouped in sets of sections having equal dimension. Even if the topside frame construction is subdivided into a number of different sections, each section has its standard in respect of size and intended use.

In one embodiment, the at least one of the standardized sections may be adapted to receive and mount various components associated with a dedicated well.

In one embodiment, the number of standardized sections are grouped in standardized structural sections and standardized equipment sections.

Each standardized section may span over at least two decks, or alternatively each standardized section may span over three decks, i.e. a cellar deck, a middle deck and a weather deck.

Further, the topside sectioned frame structure may include eight, twelve or sixteen dedicated well slots, each well slot being adapted to receive required components for one respective well. Any number of dedicated well slots are conceivable, but eight, twelve or sixteen are shown here.

Claims

1. An unmanned wellhead platform comprising at least one topside construction, a jacket designed and adapted to be supported on the seabed and projecting above the sea level and a topside structure installed on top of said jacket, wherein said topside structure is designed as a standardized base concept tailored for repetitive future topside constructions, **characterized in that** each topside construction is adapted to the number of wells to be developed, said topside construction being made up by a number of different but standardized sections , each standardized section being dedicated for a particular and predetermined purpose and location in said topside construction , said number of standardized sections adopt different sizes and configurations, though grouped in sets of sections having equal dimension.

2. The unmanned wellhead platform according to claim 1, **characterized in that** some of the standardized sections of the topside construction having at least one defined well slots, each well slot having received its respective and unique number from 1 (one) and up, each numbered well slot repeatedly receives the same location in the topside construction each time a base topside construction is constructed, hence “standardizing” such base topside construction.

3. The unmanned wellhead platform according to claim 1 or 2, **characterized in that** said at least one of said standardized sections is adapted to receive and mount various components associated with a dedicated well.

4. The unmanned wellhead platform according to any of the claims 1-3, **characterized in that** said number of standardized sections are grouped in standardized structural sections and standardized equipment sections.

5. The unmanned wellhead platform according to any of the claims 1-4, **characterized in that** each standardized section is spanning over at least two decks.

6. The unmanned wellhead platform according to claim 5, **characterized in that** each standardized section is spanning over three decks, i.e. a cellar deck, a middle deck and a weather deck.

7. An unmanned wellhead platform according to any of the claims 1-6, **characterized in that** said topside structure includes eight, twelve or sixteen dedicated well slots, each well slot being adapted to receive required components for one respective well.

8. An unmanned wellhead platform according to any of the claims 1-7, **characterized in that** said topside construction is rotated in the horizontal plane approximately 45 degrees relative to corner legs of said jacket.

9. An unmanned wellhead platform according to any of the claims 1-8, **characterized in that** said topside construction is adapted and designed for possible future expansion, said expansion taking place by adding one or more standardized section as required.

10. An unmanned wellhead platform according to any of the claims 1-9, characterized in that said seabed support comprises an equilateral jacket adjusted for the sea depth, metocean data, soil condition and strength required for the location of the unmanned platform.