



LIBERATOR FIELD DEVELOPMENT

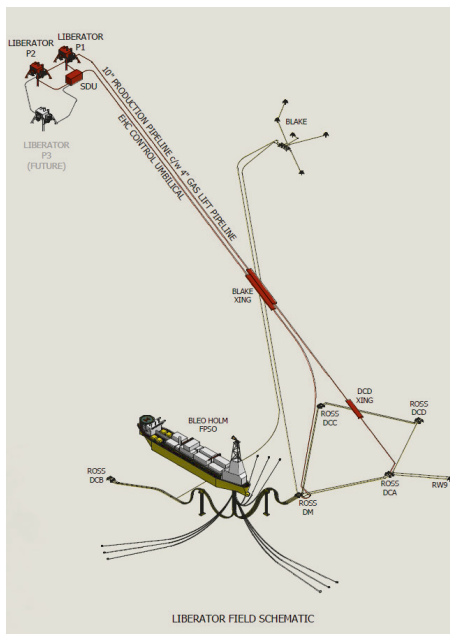
PDi has been contracted to provide engineering support services to the Liberator Field Development project. The project is at the FEED stage heading into Detailed Engineering. First oil target is Q2/Q3 2020.

Client
Location
Date

i3 Energy
UKCS
February 2019 (2 years)

The Liberator Field Development is located 120km north east of Aberdeen, in the South Halibut Basin of the Moray Firth Province.

The Liberator project will initially be developed as a 2 or 3 production well tie-back to existing in-place or redeployed FPSO host infrastructure. Oil will be transported to the host via a single 10inch production pipeline with lift gas provided by a 4inch service pipeline. An electro-hydraulic umbilical will provide control functions to the subsea development.



PDi's initial scope for the 2 FPSO host options under consideration (existing in-field Bleo-Holm or redeployed Voyager Spirit) includes:

- Project management
- Basis of Design Compilation
- Flow Assurance Studies
- Field Architecture development.

Once a preferred host FPSO is selected PDi will support the Liberator project with the following:

- Detailed design of the subsea facilities including technical specifications, analysis assessments, material take-offs, drawing preparation, etc
- Preparation of ITT packages
- Procurement Support
- CAPEX estimates
- Interface management
- Project Management including execution scheduling
- Construction Management.

The scope of work will include:

- Rigid pipelines, coatings, insulation, anodes, piggyback blocks, trenching etc
- Umbilicals
- Control System
- Flexible Risers
- Rigid spoolpieces/flexible jumpers and associated protections
- Manifolding facilities, valves, flanges etc.