



Cossack Wanaea Lambert Hermes (CWLH) Field - Okha FPSO

As part of this project, **Zeta-pdm Ltd** supplied the design, engineering and the supply of the new build separation internals for four (4) off separator vessels, three (3) off 3-phase horizontal separators being the; **HP Separator 05V020001**, **LP Separator 05V020002** and **Test Separator 05V020003** and the 2-phase horizontal **Produced Water Flash Vessel 05V450001**.

The Okha FPSO replaced the Cossack Pioneer FPSO and is located in the Cossack Wanaea Lambert Hermes (CWLH) oil field. The CWLH project is one of Australia's most productive oil developments and is located 135km northwest of Karratha in Western Australia. First production through the redeveloped facilities is expected in 2011.



General Information;

Zeta-pdm worked closely with Monaco based service provider and FPSO owner / operator, SBM Offshore, for the design, engineering and supply of the production separation train.

The separation internals needed to be designed to minimise surface waves and sloshing effects (as they are situated on an FPSO).

The internals were delivered on schedule, whilst meeting stringent process, mechanical, HSE and quality specifications.



Final stage of Separator fabrication

The scope included;

For the 3-phase horizontal Separators; HP, LP and Test Separators 05V020001/2/3

- 1 x ZP-Vane Type Inlet Device.
- 1 x ZHB® Distribution Baffle.
- Set x ZVB® Calming Baffles (4, 2 & 1 respectively).
- 1 x Partial ZVB® Calming Baffle over the Weir Plate.
- 1 x ZP-210 Vane Type Demisting Device.
- 1 x Sandwash System.

For the 2-phase horizontal Produced Water Flash Vessel 05V450001

- 1 x ZP-Vane Type Inlet Device.
- 1 x ZHB® Distribution Baffle.
- 1 x ZVB® Calming Baffle.
- 1 x Oil Bucket.
- 1 x Sandwash System.

Vessel Principal Dimensions;

HP Separator 05V020001

4,050 mm ID x 18,400 mm T/T

LP Separator 05V020002

3,150 mm ID x 11,000 mm T/T

Test Separator 05V020003

2,700 mm ID x 7,800 mm T/T

Produced Water Flash Vessel 05V450001

2,700 mm ID x 7,800 mm T/T

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