



## Resak-RCPP (Malaysia)

*Petronas Carigali experienced severe liquid carry-over from their production separators and as part of this project, Zeta-pdm Ltd undertook the design, engineering, supply and installation supervision, of the separation internals for the revamp & upgrade of the two (2) off existing vertical Production Separators V2020 & V2070.*

*Petronas Carigali SDN BHD (PCSB) operates the Resak Platform which is located within Block PM-6 approximately 135km northeast of Kertih. Production from the gas field commenced in January 2000 and is expected to peak at 400 MMSCFD of gas and 13,000 bpd of condensate and will supply about 15 percent of the anticipated natural gas demand in Peninsular Malaysia.*



### General Information;

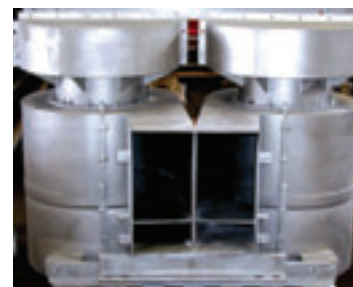
Zeta-pdm provided a detailed Computational Fluid Dynamics (CFD) analysis of the separators highlighting the deficiencies of the existing design of internals and the causes of the high liquid carry-over. A CFD customised design of our ZP-4G® Inlet Cyclones was developed as it offered a wider operating flexibility than conventional inlet devices.

All the internals were designed to optimise the operational flexibility of the separators, whilst meeting stringent process, mechanical, HSE and quality specifications.

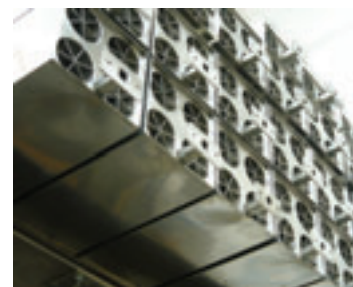
Zeta-pdm engineers also undertook the offshore supervision of the internals installation.

### The scope included;

- CFD Optimisation of the Revamp Separation Internals including the Upstream Piping.
- 2 x ZP-4G® Inlet Cyclones.
- 1 x ZP-090 Vane Type Pre-Conditioner.
- 72 x 4G-FD® Demisting Cyclones.
- New Supports and Support Rings (Non-weld).



*Trial Assembly of ZP-4G® Inlet Cyclones*



*Trial Assembly of 4G-FD® Demisting Cyclones*

### Vessel Principal Dimensions;

*1,700 mm ID x 7,000 mm T/T*

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