

FIELD DEVELOPMENT CASE STUDY

SANTOS - Mutineer Exeter Field
Offshore Carnarvon Basin, Western Australia

AWT DISCIPLINES

Completions

Production Technology

Flow Assurance



PROJECT BACKGROUND

Assessment and selection of appropriate artificial lift design was a significant element of this project. Conceptual design work by AWT led to the unique selection of dual ESP technology. The optimal artificial lift schemes were subsequently identified by AWT through coordination of specialist design input from global ESP experts.

Location:

150 kilometres North of Dampier,
Offshore Carnarvon Basin, Western
Australia

Water depths:

140 to 160 metres

Reserves:

61 MMstb (gross proved and probable)

AWT WORKSCOPE

- AWT, in technical alliance with Worley Engineering, were selected by Santos to assess and nominate suitable field development solution for these fields.
- AWT were involved in the conceptual well design, production technology, sand control and flow assurance studies, in addition to assisting Santos with the detailed engineering of subsea completions.
- Our engagement with SANTOS, realised the following outcomes
 - sand face completion design incorporating sand control, artificial lift and zonal isolation considerations;
 - FAT/SIT management of well construction elements;
 - wellsite completion supervision assisted with the successful installation of the first four subsea completions in the field;
 - post well construction reporting and well integrity documentation;
 - project management for the storage and ongoing maintenance of surplus completion equipment and spares.

AWT ADDED VALUE

- The innovative fit-for-purpose completion solution, accomplished by SANTOS in conjunction with AWT, made a significant contribution to the Mutineer-Exeter Field Development. The project delivered commercial oil production three months ahead of schedule, 10% under budget and only three years from drilling of the first appraisal well.
- Additionally, SANTOS' successful application of dual electrical submersible pumps in subsea wells was a first in this region. This in combination with other field design elements was designed to deliver a projected 100,000 barrels of oil per day (plateau rate)

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