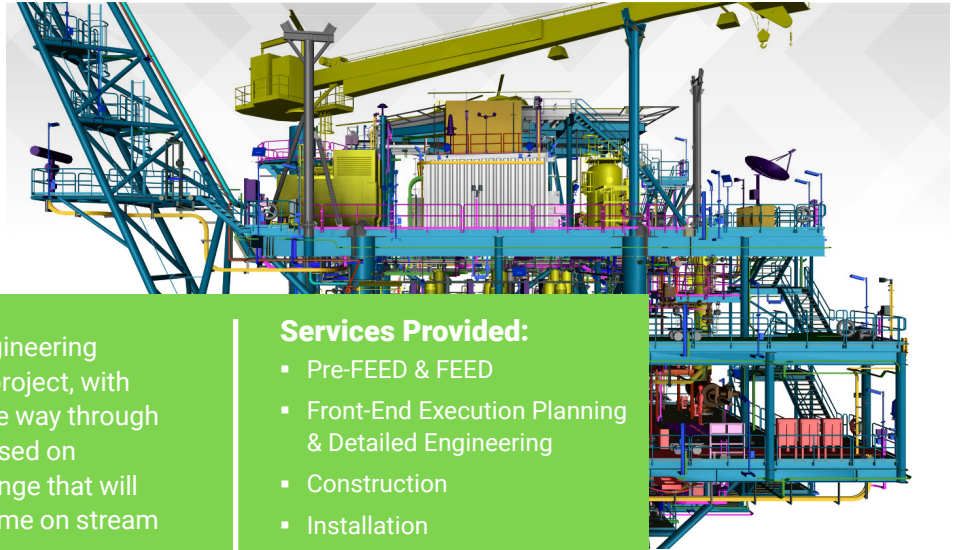


ANGELIN, BP TRINIDAD & TOBAGO



McDermott successfully executed engineering for the BP Trinidad & Tobago Angelin project, with engineering work from pre-FEED all the way through detailed engineering. McDermott focused on delivering a capital efficiency step change that will allow Angelin to be sanctioned and come on stream safely, reliably and competitively.

Services Provided:

- Pre-FEED & FEED
- Front-End Execution Planning & Detailed Engineering
- Construction
- Installation
- Commissioning

With a focus on the end-state and mitigation of risk through all phases of work, McDermott performed pre-FEED, FEED, front-end execution planning and detailed engineering for a six-slot normally unmanned (NUI) wellhead platform handling 600 MMSCFD of gas, located approximately 25 miles [40 km] off the east coast of Trinidad.

The scope of work included

- Topsides and Jacket
- Installation Engineering Pre-Execution Support
- Pipeline and Subsea Structure Design and Installation Engineering Pre-Execution Support

- 15.5 mile [25 km] pipeline
- 1 x 26" Subsea Tie-In Spool to existing subsea Wye at Serrette
- 1 x 26" Subsea Tie-in Spool to new Wye Skid
- 1 x Subsea Wye Skid at Serrette
- 1 x Subsea Wye Skid at Angelin
- 1 x Isolation Skid at Serrette
- Commissioning Engineering and Front-End Execution Planning

Project management and engineering was performed by McDermott between Houston and Chennai engineering centers.

Facilities

- 1,361 ST [1,235 MT] NUI
- 1,102 ST [1,000 MT] jacket

Pipe Dimensions

- Flowline - 26" OD x 0.625" WT
- Riser - 26.37" OD x 0.812" WT

Location

- Trinidad and Tobago

Water Depth

- 213 feet [65 meters]

Vessels

- DLV2000

