Heidelberg Spar

The Heidelberg facility is located in Green Canyon Block 860 of the Gulf of Mexico

Background
Heidelberg is the second of a new spar facility design series, leveraging the “Design One / Build Two” philosophy to reduce costs and schedule.

The Heidelberg topsides has a dry weight of 12,320 tons (11,177 tonnes), initially, with a topsides operating weight designed for 16,000 tons (14,500 tonnes).

The spar’s hull weight is 22,600 tons (20,500 tonnes), without fixed ballast. The total power generated is 17.87 MW via three turbine generators.

The main deck is designed to support riser pull-in equipment, coiled tubing unit and hydraulic snubbing unit. The deck can support up to 24 risers and umbilicals. There are two 16-inch (40-centimeter) export SCR risers for oil and gas export.

Challenges
Update and re-issue approximately 14,000 drawings

Solutions/Differentiators
• Leverages the “Design One/Build Two” philosophy
• Adapt Lucius facility design with minimal changes
• Flexibility of the facility design on Lucius was adapted to Heidelberg HT/HP conditions with minimal changes

Customer:
Anadarko

Location:
Gulf of Mexico

Project Scope:
• Concept / Pre-FEED
• FEED
• Detailed Design
• Procurement
• Follow-On Engineering
• Inspection

Project Duration:
2012 - 2016

Flow Rates:
• 80,000 BPD Oil (120,000 Max)
• 150 MMSCFD Gas
• 50,000 BPD Water
• 100,000 BPD Water Injection (Future)

Water Depth:
5,310 Feet (1,618 Meters)

Topsides Weight:
15,302 Tons (13,882 Tonnes)

Design One/Build Two; 80% Identical to Lucius Spar

www.woodplc.com
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