

Semi-Submersibles & Drillships



Semi-Submersibles



ZENTECH Ultra-Deepwater Design Super EVA

- DP-III Capable
- 12,000 Ft. WD
- 40,000 Ft. Drilling Depth
- Dual Functionality on Drill Floor

NOBLE Paul Wolff

- Conversion from Submersible to DP Semi-Submersible
- Feasibility Study
- Stability Analysis
- Motion Response
- Mooring Analysis
- Riser Analysis
- Options studied for Increased VDL
 - Column Blisters
 - Increased Column Diameter
 - Additional Column





Semi-Submersibles & Drillships

NOBLE Semi-Submersibles

- Feasibility Study, Basic Design & Complete Detail Design.
- 10,000 Ft. WD.
- DP-II Class Rigs.
- Shipyard Support Team.
- Project Management



**NOBLE Dave Beard
(Shelf Class)**



**NOBLE Jim Day
(Bingo Class)**



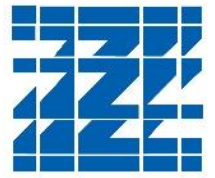
**NOBLE Danny Adkins
(Bingo Class)**

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 **ZENTECH INCORPORATED**
INNOVATIVE ENGINEERING SOLUTIONS



Semi-Submersibles & Drillships



Diamond Offshore Ocean Confidence

- Conversion from Accommodations to Drilling Unit
- Construction Drawings
- Riser gantry crane support, deck superstructures
- Drill floor modifications
- Piping systems
- Moon pool addition
- ROV handling structures
- BOP handling support structure



Additional Zentech Clients include: Atwood Oceanics, Statoil (Petrobras), Japan Drilling Co., Marine Drilling, Pride, Viking Offshore, Moss Maritime



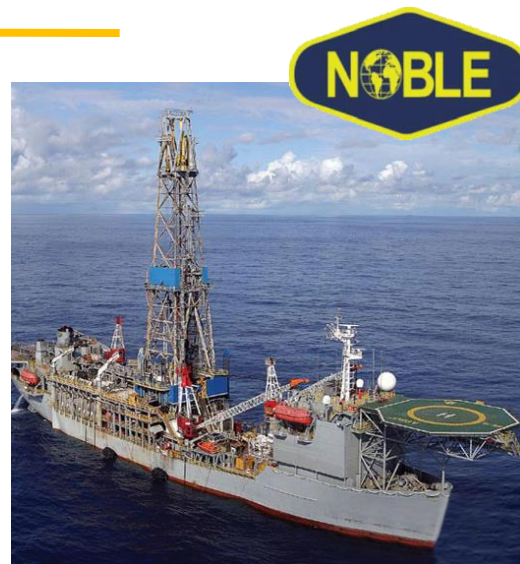


Semi-Submersibles & Drillships

Drillships

NOBLE Roger Eason

- Conversion to DP-II Class Drillship for Petrobras Contract
 - Feasibility Study
 - Basic and Detailed Design to Shipyard
 - Design Engineering to Remove and Replace:
 - Stern Section
 - Bow Section
 - Add Port and Starboard Sponsons
- Complete Conversion Engineering



Global Santa Fe - Robert F. Bauer

- Upgrade for Deeper Water Depth
 - Study for Upgrade
 - Substructure Analysis
 - Helideck Design
 - Casing Rack Analysis
 - Weight Calculations

ONGC (Oil and Natural Gas Companies, Ltd.)

Sagar Shushan

- Mooring Analysis for Drillship
- Quasi-Static and Dynamic Analysis for:
 - Intact
 - Damage
 - Mooring Analysis
 - Transient Conditions
- Water Depths of 1,300 ft. to 3,000 ft.

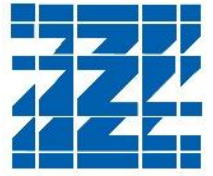


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