

# Semi-Submersibles & Drillships

## Semi-Submersibles



### **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

### **ZENTECH Ultra-Deepwater Design Super EVA**

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

### **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)



### **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

 **ZENTECH INCORPORATED**  
**INNOVATIVE ENGINEERING SOLUTIONS**

# Semi-Submersibles & Drillships

## Drillships



**NOBLE**

### **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.