Murphy Kikeh Spar
Malaysia

Landmark: FMC’s First Spar Project in Asia

Project Overview
Contract Award: 2005
Sales: Houston, Texas
Kuala Lumpur, Malaysia
Fabrication: Houston, Texas
Nusajaya, Malaysia
Service Base: Labuan, Malaysia
Host Type: Spar
Contract Type: Fixed Price Contract

Project Characteristics
No. Trees: 18
Water Depth: 1,310 m (4,300 ft)
Tree Type: Surface/Dry Tree/
Single Completion
Tree Pressure: 5,000 psi
Tree Bore Size: 4-1/16” producer
5-1/8” injector
Hydrocarbon: Oil

Project Ownership
Murphy 100%
Scope of Work

- Eighteen (18) DVA production riser systems: 9-5/8” OD, including tieback connector, stress joint, riser joints, keel joint, tension joint and hydropneumatic tensioner system
- One (1) DVA surface BOP drilling riser system: 16-3/4” OD, including tieback connector, stress joint, riser joints, keel joint, tension joint and hydropneumatic tensioner system
- Eighteen (18) DVA surface wellhead and tree systems: 9-5/8” x 4-1/16” producer and 5-1/8” injector, 5,000 psi WP, including tubing head, tubing hanger, subsea tree and wellhead access platform
- System integration, testing, installation assistance, service and maintenance

Comments

The Kikeh area is located 120 km (75 miles) northwest of the island of Labuan, offshore Sabah, East Malaysia and lies in water depths of approximately 1,300 m (4,265 ft). Murphy Sabah Oil Company Ltd. and Petronas Carigali Sdn Bhd are partners in Block K. Murphy is the operator of the block. The Kikeh development consists of a Floating Production Storage and Offloading vessel which receives production from wells drilled from a SPAR dry tree unit. The SPAR has twenty-four (24) slots. Additional equipment added: eight (8) DVA production riser systems and eight (8) DVA surface wellhead and tree systems.