



INTERMOOR

CONDUCTOR SERVICES

an **ACTEON** company



Driven Conductors Benefits

COSTS

- More economical installation
- Minimize weather exposure
- No connectors required
- Installation is always off the rig's critical path
- Savings on rig days for large campaign

TECHNICAL

- Geotechnically understood
- Known capacity on installation
- Length optimized to capacity needs
- No fatigue issues
- Minimal seabed disturbance

HSE

- Reduced handling of large diameter pipe connectors offshore
- Reduced personnel exposure to pipe handling
- Minimal impact on seabed, no jetting
- Potential for safe installation through shallow flow areas

INTERMOOR'S CONDUCTOR SERVICES

- Are available globally
- Operate in deepwater
- Optimize conductor design to meet project-specific load and fatigue requirements
- Allow installation without the need of a construction vessel (standard Anchor Handling Vessel is sufficient. This unique installation method is patented - US Patent 7,770,665)

Our installed conductors are recognized as the superior product to traditionally jettied conductors since the driving process is such a well understood geotechnical operation. We install conductors by driving them to the desired penetration with a MENCK-built Deepwater Subsea Hydraulic Hammer Spread, which allows us to provide these services in water depths up to 7,300-ft (2,225-m) with +/- 3-in (8-cm) elevation accuracy. This is achieved through our exclusive long term lease agreement with MENCK GmbH.

In our Morgan City facility – where our conductors are fabricated – InterMoor has a subsea hammer spread fully assembled and ready for deepwater installation operations at short notice.

INNOVATION IN PRACTICE

Petrobras/Chevron - Papa Terra

Water Depth: 3,937-ft (1,200-m)

Q1 - Q2 2012

Scope of work:

- Fabricate seventeen (17) 36-in (1-m)-OD well conductors
- Design, fabricate and install five (5) templates
- Provision of installation vessel
- Survey (surface navigation + LBL)
- Drive 15 conductors to client specs

All operations must be performed off the rig's critical path.



InterMoor uses a customized transport-and-launch barge to carry the conductors out to the site. This barge includes an InterMoor designed conductor side-launch system for keelhauling the conductors to the anchor-handling vessel (AHV). There are two (2) conductor shuttle systems on the barge. They are hydraulically powered and include several safety features.

Shell/Petrobras/ONGC - BC 10 - Phase 1

Water Depth: 5,250-ft - 6,562-ft (1,600-m - 2,000-m)

Q4 2007 - Q1 2008

Scope of Work:

- Pre-Install two (2) ALM Spacer Templates
- Fabricate and install eleven (11) 36-in (1-m)-OD Well Conductors
- Fabricate and install six (6) 48-in (1.2-m)-OD ALM Conductors
- Drive all conductors to client specs

All operations must be performed off the rig's critical path.



Suction-to-Stability (STS) heads are installed on the conductors.

Shell/Petrobras/ONGC - BC 10 - Phase 2

Water Depth: 5,577-ft (1,700-m)

Q1 - Q2 2012

Scope of Work:

- Pre-Install one (1) ALM Spacer Template
- Single piece conductors with STS (Suction to Stability) Heads
- Fabricate and Install five (5) 48-in (1.2-m)-OD, 197-ft (60-m) long ALM conductors (approx. 70-MT weight)
- Install a guide post on spacer template to facilitate subsequent artificial lift manifold installation
- Drive all conductors to client specs

All operations must be performed off the rig's critical path.



InterMoor uses MENCK's MHU-270T DWS which includes a deepwater hydraulic hammer, capable of providing a driving energy of 270 KJ at a water depth of 3,281 ft. (1000 m.) combined with MENCK's girdle-type electro-hydraulic power pack and umbilical support system.



Headquartered in the United States,
InterMoor has facilities
across the globe:

Angola
Brazil
Egypt
Equatorial Guinea
Malaysia
Mexico
Norway
Singapore
United Kingdom
United States

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