



**MARINE WELL  
CONTAINMENT**  
C O M P A N Y

# Marine Well Containment Company (MWCC)

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**February 11, 2011**

## *Objectives / Governance*

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- Provide a rapid response system to address a potential deepwater well control incident in the Gulf of Mexico
- Establish and maintain an organization to ensure equipment is operational and ready for rapid response
- Operate as a not-for-profit, stand-alone organization
- Current members: BP, Chevron, ConocoPhillips, ExxonMobil and Shell
- Membership open to all Gulf of Mexico operators
- Each member has equal share of company ownership and commits to proportional share of system development costs

## *System Development*

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- Initial \$1 billion investment in specially designed, proven technology for well containment
- ExxonMobil led project team stewarding development of system
- Phased project approach
  - Interim Containment Response System - Feb 2011
  - Expanded Response System - early 2012
- System capable of being expanded and adapted for new technologies with additional future investment

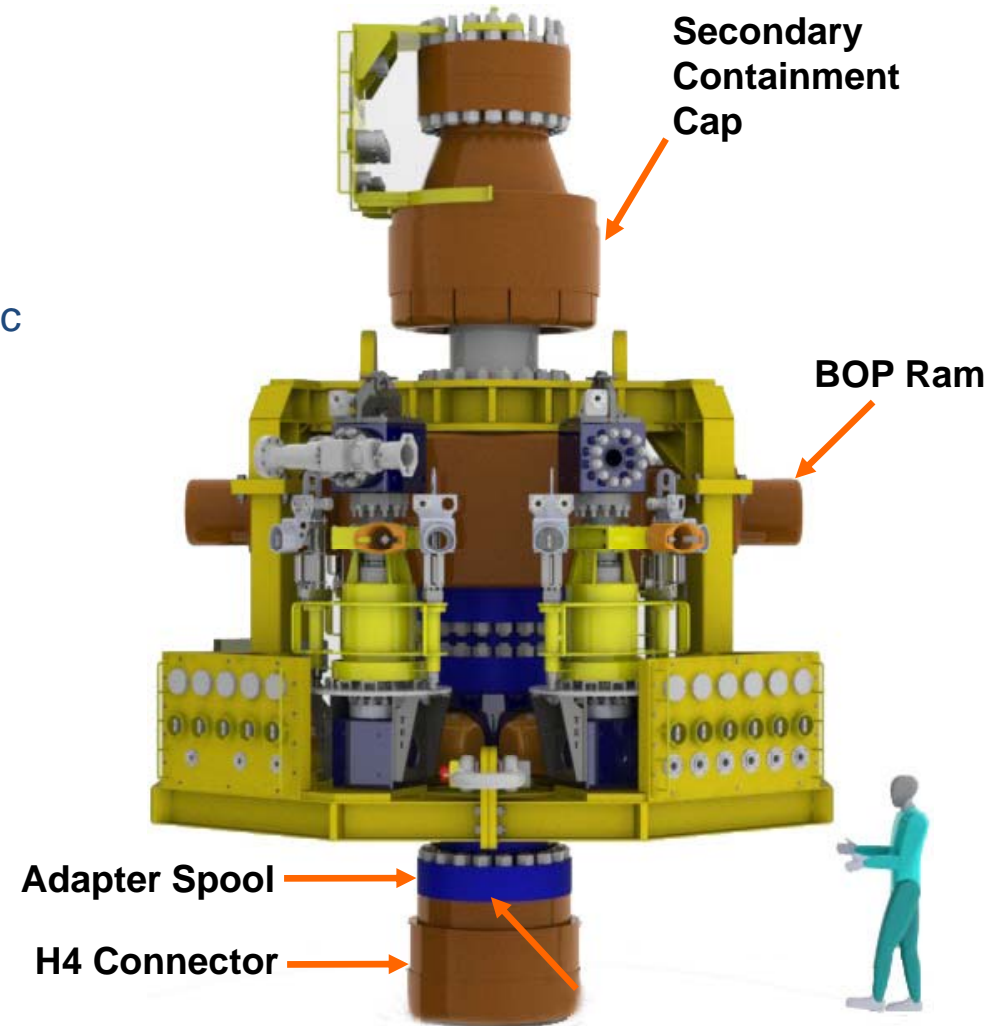
# *Interim Containment Response System*

## Key Components

- Single ram (dual barrier) capping stack
- Three mutual aid drillships with topsides processing
- Riser, manifold and containment systems
- Dispersant, hydrate inhibition and hydraulic systems
- Hawser and floating hoses for offloading

## Capability

- Up to 8,000 ft water depth
- 15,000 psi capping stack maximum operating pressure
- Storage and processing capacity up to 60,000 barrels per day of liquid
- Dispersant supply available for rapid deployment



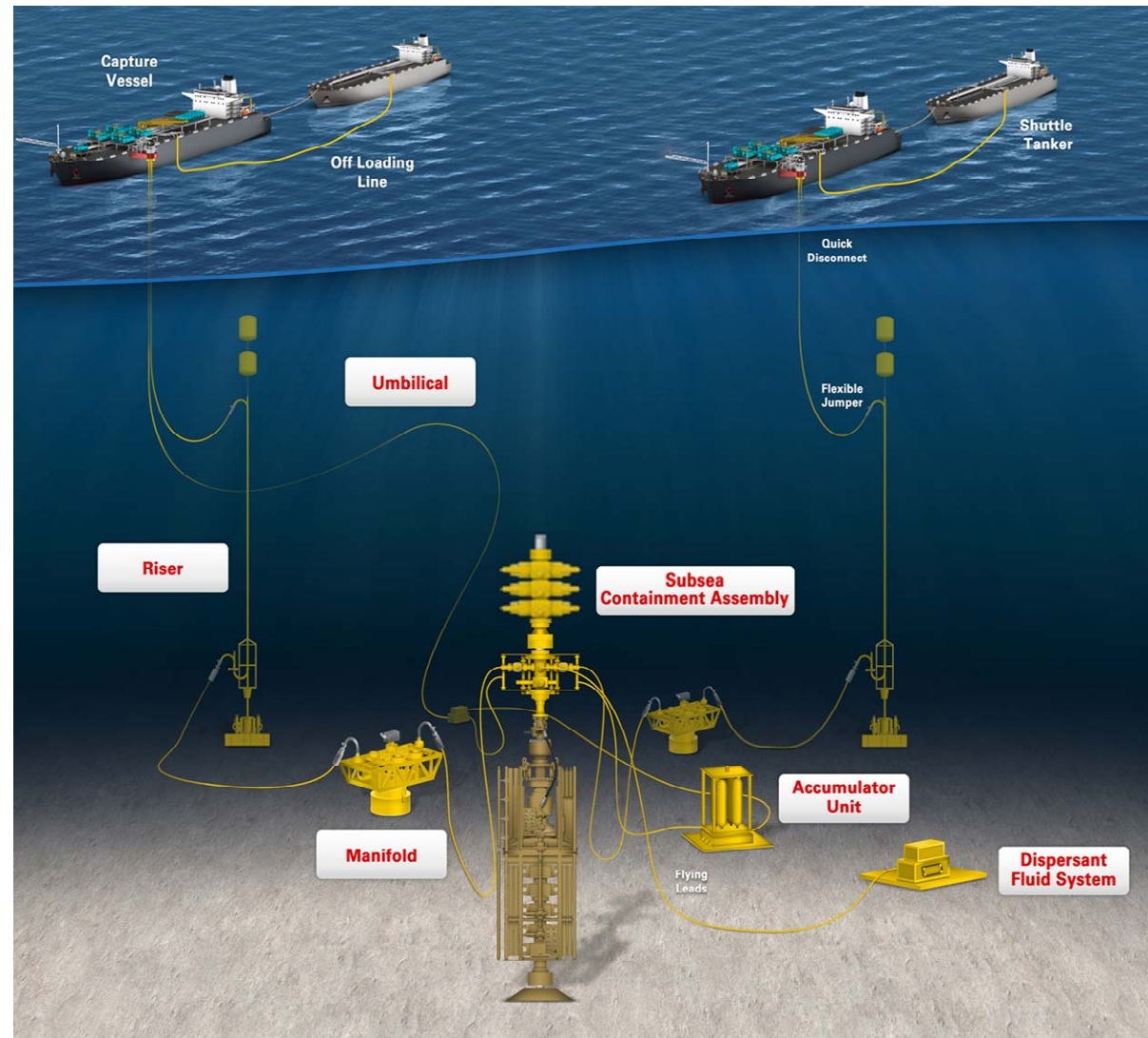
# Expanded Response System

## Additional Key Components

- Three ram subsea containment assembly
- Modular Capture Vessels
- Modular topside processing facilities
- Free standing risers and manifold systems

## Capability

- Up to 10,000 ft water depth
- 15,000 psi subsea containment assembly
- Storage and processing capacity up to 100,000 barrels per day of liquid
- Dispersant supply available for rapid deployment



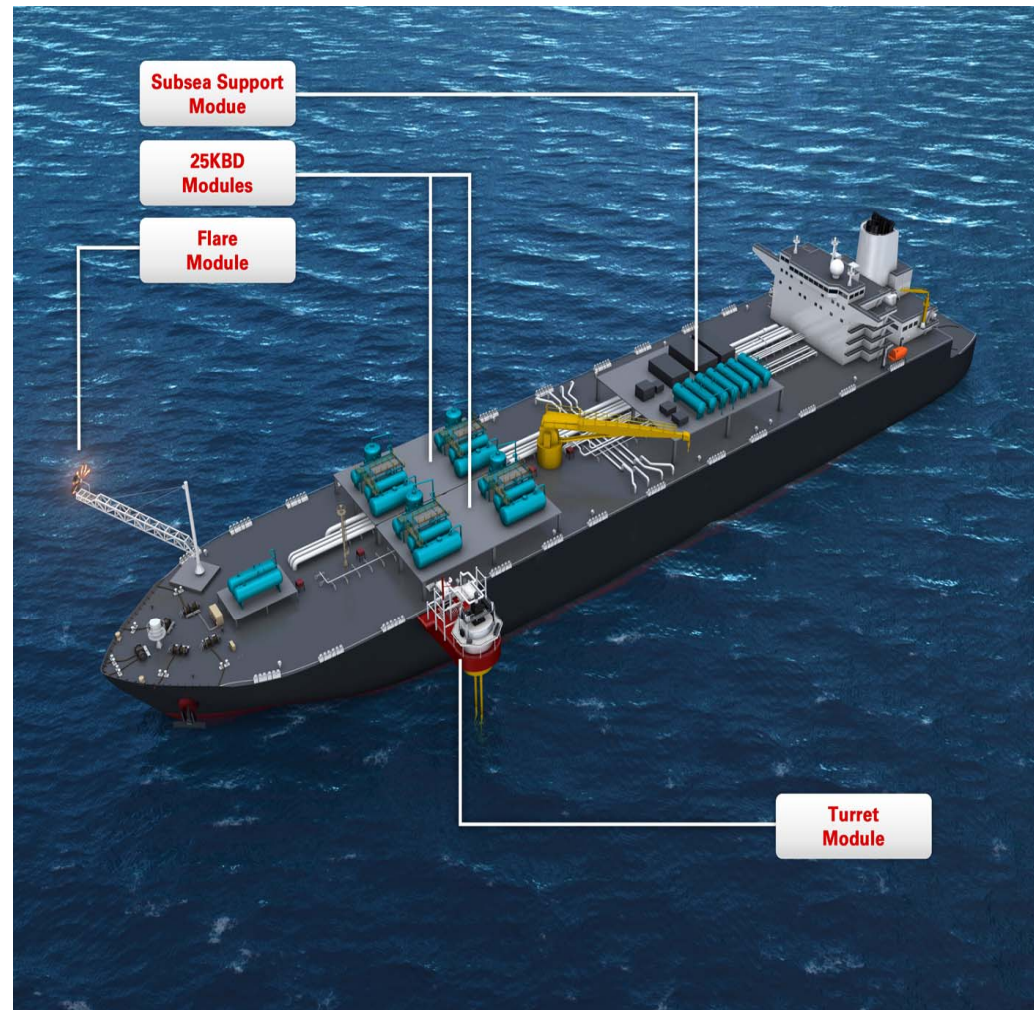
## *Equipment Flexible for Multiple Scenarios*

- Provides flexibility for various connections on subsea drilling equipment or directly to well casing
- Provides a means to re-enter the wellbore
- Ports to inject dispersant or hydrate inhibitors
- Connections for pressure / temperature gauges
- Blowout preventer rams on top to allow for possible well shut-in



# Capture Vessels for Rapid Deployment

- Interim System utilizes modular process equipment installed on available drill ships or extended well test vessels
- Expanded System includes two dedicated Modular Capture Vessels, normally operated in Gulf of Mexico lightering service
- Capture vessels fitted with topside process modules connect to subsea risers, separate oil from gas, flare gas, safely store and offload oil to shuttle tankers
- Shuttle tankers will be U.S.-flagged and Jones Act compliant
- During hurricanes, capture vessels disconnect and move away for crew safety



Modular Capture Vessel  
Process equipment, flare, approx. 700,000 barrel storage

# *Restoring Confidence in Deepwater GOM*

