The world’s first innovative Buoyant Tower has been engineered, fabricated, transported and installed offshore northern Peru. The structure was delivered to the client in rapid time; taking only 13 months from contract award to offshore installation.

The selection of the Buoyant Tower was based on cost, schedule, and operational flexibility advantages as compared to the traditional fixed jacket platform design. Coupled with the lack of heavy lift vessels in the region, the Buoyant Tower was an ideal solution for the client.

The design is a fixed water depth version in 175ft (54m) that will accommodate dry trees and a tender assist drilling program for up to 24 wells.
HortonGMC Buoyant Tower Technology

Buoyant Tower Hull Fabrication

Buoyant Tower Deck Fabrication

Buoyant Tower Hull and Deck Load-Out and Sail Away

Buoyant Tower Installation: Hull Float-Off

Buoyant Tower Installation: Hull Upending
HortonGMC Buoyant Tower Technology

Buoyant Tower Installation: Hull Fixed Ballasting

Buoyant Tower Installation: Deck Float-Over

Buoyant Tower Installation: Deck Float-Over and Ballasting

Buoyant Tower Installation: Tow and Set in Final Location

Buoyant Tower in Production
HortonGMC Buoyant Tower Technology

World’s first Buoyant Tower successfully set in Peru, Sep 2012.

Customer: BPZ Energy  
Project Name: CX-15  
Location: Peru

Water Depth: 54 meters  
Year: 2010 - 2012

Main Details Topsides:

Structure (approx. 980 MT):
- 3-levels
- Drilling Deck (120’ x 100’)
- Production Deck (120’ x 100’)
- Cellar Deck (100’ and 45’)
- 24 Slots

Drilling (approx. 440 MT)

Facilities (approx. 745 MT):
- Oil, Plus Associated Gas Separation
- Treatment
- Gas Injection
- Water Injection
- Power Generation & Utilities
- Export Pipelines

HortonGMC Buoyant Tower Technology

The Buoyant Tower is a proprietary design developed to address the industry need for a low cost platform in mid water depths. Composed of several cylindrical cells, similar to proven cell-spar technology, the buoyant tower is connected to the seabed by a single suction pile, which is integral to the hull structure.

- Low Cost Alternative to Traditional Jackets
- Installation Without the Use of a Derrick Crane Vessel
- Negates the Need for Heavy-duty Piles & Grouting Services
- Variable Water Depth Capability
- Negates the Need for Extensive Decommissioning
- Makes Use of Available Local Assets
- Multi-purpose Utilization & Re-utilization
- Earthquake Friendly
- Optional Oil Storage Configuration (up to 150,000 bbls)

About HortonGMC

HortonGMC Inc, is a joint venture company, with equal ownership, between GMC Limited and Horton Wison Deepwater. Headquartered in Houston, Texas, the partnership offers a unique blend of highly experienced project management and expert floating platform engineering to address innovative and custom offshore solutions.

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