

# Thunder Horse Field

## Fact Sheet



Discovered in July 1999, Thunder Horse is currently one of the largest deepwater producing fields in the Gulf of Mexico. It consists of two adjacent fields ('north' and 'south') being developed together, with reservoirs in the Upper Miocene turbidite sandstones. The wells required to access the reservoir are some of the most challenging and deepest in the Gulf.

The Thunder Horse development consists of a semi-submersible Production/Drilling/Quarters (PDQ) facility, with the capacity to produce 250,000 b/d of oil, and 200 mmscfd of gas. The processed oil & gas is then transported to shore via BP operated pipelines, including Proteus and Endymion (oil), and Okeanos and Destin (gas) pipeline systems.

First Oil was achieved in June 2008 and ramp up to facility capacity was successfully achieved within the first year of operation.

BP operates the development (75% interest), with co-owner ExxonMobil owning the balance.

**Moored Semi-submersible PDQ** (Modularized Production, Integrated Drilling and Quarters); ABS Classed and Certified "Floating Offshore Installation"; All Subsea Wells

Location	Mississippi Canyon 778/822, 150 miles SE of New Orleans
Operator	BP (75%)
Partner	ExxonMobil (25%)
Water Depth	6050 ft (@ PDQ location)
Design Life	25 years

### Processing Capability

Annualized average throughput - Oil	250,000 BOPD
Annualized average throughput - Gas	200 MMSCFD
Produced Water Peak	140M BWPD
Water Injection	200 to 300M BWIPD

### Topsides Description

Topsides layout	3 production / utilities modules
Topside modules lift weight	21,000 short tons
Main Power Generation Capability	90 MW.
Derrick	2MM lbs Maximum; Auxiliary Hoisting Capability
Quarters	298 persons
Helideck	sized for an S-92 w/S-61 parked

### Hull Description

Lightship weight	75,000 metric tons
Dry Transport weight	59,500 metric tons
Hull Displacement	129,000 metric tons
Mooring	16 x 5 ¾" wire rope & chain with suction pile
Main Deck	112 x 136 m
Normal Draft	30 m
Column Dimensions	2 @ 22 x 26 m.; 2 @ 22 x 23 m by 36 m. height
Pontoon Height	11.5 m
Deck Freeboard	17.5 m
Discovery Announced	July 15, 1999
First Oil	June 2008

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## **BP in the Deepwater Gulf of Mexico**

BP began deepwater operations in the Gulf of Mexico (GoM) in the mid 1980s. Since then, BP has built a leading position in the Deepwater GoM, producing over one billion boe (barrels of oil). Last year, BP produced in excess of 200,000 net boe/d (barrels of oil equivalent per day) from nearly two dozen fields, including BP operated facilities at Na Kika, Mad Dog, Atlantis, and Thunder Horse.

Over the past 20 years, BP has been the most successful explorer in the GoM, discovering more reserves than any of its competitors since 1993. BP is the largest leaseholder in the deepwater with ownership in more than 650 blocks in water depths of 1,300 feet or greater. In addition, BP has the No. 1 lease position in the Paleogene horizon and what we believe to be the largest GoM discovery to date (Tiber).

Execution of our exploration strategy has delivered excellent results, yielding a strong portfolio of high quality hub and subsea tie-back development projects.

BP intends to sustain its leading position as an active participant in all facets of the Deepwater US Gulf of Mexico – as an explorer, developer, and operator. Recent BP discoveries, such as Tiber, demonstrate BP's commitment to making the deepwater Gulf of Mexico a vital part of the world's energy future for years to come.