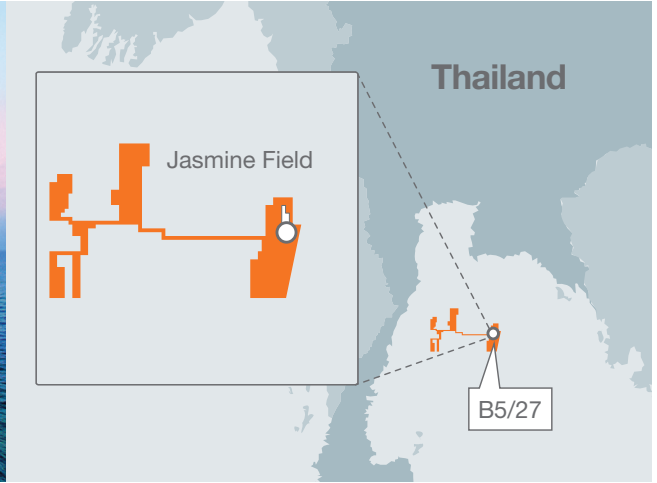




Jasmine Field

Block B5/27 – Gulf of Thailand



Mubadala Petroleum holds a 100 percent interest and is the operator of the very successful Jasmine* B5/27 offshore oil development.

In March 2005, just 13 months after concession acquisition, the first Jasmine platform, WPA, was installed and first oil was produced. As a result of separate delineation and exploration drilling campaigns in 2005 and 2006, four additional production platforms were installed in and around the Jasmine and Ban Yen production areas. In addition, the B2 Annex dewatering and degassing facility commenced operations early in 2008. Today, six platforms and one floating production, storage and off-loading vessel (FPSO), the FPF-003, are in operation. The Ban Yen platform produced first oil in 2008.

Jasmine is located in a water depth of 60 meters and produces oil from more than 30 separate sandstone reservoirs at depths of 790 - 1,600 meters below sea level. Peak production reached 28,000 bopd in November 2009. Today already well over 60 million barrels have been produced. This is a substantial increase from the estimate made of the time of purchase in 2004. 2016 average year to date production is around 13,000 bopd. All production is sold for local use to meet Thailand's growing energy needs.

In March 2010 the offshore development gained accreditation of two major international safety and environmental standards ISO 14001 and OSHAS 18001. Both standards have seen annual recertifications ever since.

* "Jasmine" consists of the Jasmine and Ban Yen production areas.

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Petroleum geology

Basins	Pattani (productive)
Source	Oligocene lacustrine shales
Reservoirs	Oligocene to Miocene lacustrine and fluvial sandstones
Trap	Fault dependent closure; combination trap
Seal	Intra-formational Oligocene to Miocene shales

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Project details

Name & location of project	Jasmine oil field, Block B5/27, Gulf of Thailand	
Project description	Offshore oil development at a water depth of 60 meters, producing from more than 30 separate sandstone reservoirs at depths of 790 – 1,600 meters. Six wellhead/production platforms feed crude oil to floating production, storage and offloading (FPSO) vessel for export via shuttle tanker.	
Operator/developer	MP B5 (Thailand) Limited	
Project components	Six Jasmine/Ban Yen production platforms connected via subsea pipelines to the FPSO for processing of crude and storage before export	
Upstream facilities	<p>Jasmine A production platform</p> <ul style="list-style-type: none"> • 18 Production wells • 1 Water Injection well • 2.1 km pipeline to FPSO • 3.65 km pipeline to B2 Annex <p>Jasmine B/B2 production platforms</p> <ul style="list-style-type: none"> • 20 production wells • 5 water disposal wells • 2 water injection wells • 4.14 km pipeline to FPSO <p>Jasmine C production platform</p> <ul style="list-style-type: none"> • 20 production wells • 2 water disposal wells • 2 water injection wells • 3.78 km pipeline to FPSO 	<p>Jasmine D production platform</p> <ul style="list-style-type: none"> • 24 production wells • 3 water disposal wells • 1.51 km pipeline to Jasmine B <p>Ban Yen A production platform</p> <ul style="list-style-type: none"> • 23 production wells • 3 water disposal wells • 5.45 km pipeline to Jasmine C
Processing plant	WPB/WPB2/WPC/WPD/BYA, FPF-003 FPSO	
Export pipeline & receiving facilities	Crude oil exported via shuttle tanker from FPF-003 FPSO	
Dates of commercial operations	Jasmine A first oil 2005 at 10,000 bopd Jasmine B/C first oil 2007 Jasmine B2/D/Ban Yen A first oil 2008	
Offshore personnel	Normal complement of 85 persons for operation of the field and FPSO.	