



Mamba Straddling Project

Background

The Mamba gas field is a giant offshore natural gas field in the Cabo Delgado Province, off the coast of Mozambique. Discovered in October 2011 by Italian company Eni, it is one of the largest gas fields in the world, with up to 15 trillion cubic feet of natural gas in place, equivalent to 2 bboe. Eni has drilled nine deepwater wells in Area 4 identifying more than 75 TCF of recoverable natural gas. The field is located about 40km off Cabo Delgado coast in Area 4 offshore Mozambique.

The Mamba South discovery, located in a water depth of 1,585m, encountered a total of 212m of continuous gas pay in high-quality Oligocene sands. While deepening the well, it encountered a new separated accumulation containing a potential of up to 7.5 Tcf of gas-in-place in clean sands from the Eocene age. This area has about 90m of gross gas pay, which was cored.

The Mamba North discovery, situated about 22km north of Mamba South-1 location, also encountered 186m of gas-bearing rock.

A production test was conducted, producing about 1 MMcm/d of natural gas and minor volumes of condensate during testing, but flow rates were constrained by surface facilities.

Scope of Services

UPI was awarded the concept and FEED for the Mamba Straddling project under existing global deepwater frame agreement. The scope covered:

- Concept selection for the entire field layout architecture, tieback flow assurance and system hydraulics design
- Installation options review and suitability design
- Undertake subsea, controls, umbilical and flowline detail engineering
- Development CAPEX and OPEX cost estimates and schedule
- Subsea Production System definition and RFQ preparation
- Offshore EPCI RFQ package preparation
- Project Management planning for fabrication and construction phases

Client
Eni

Location
Mozambique, East Africa

Duration
2012 - 2015

Scope

- Owners Engineer
- Concept
- FEED
- Subsea Installation
- Project Management

Water Depth
0 - 200 meters

Total Installed Cost
\$2.5 Billion

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