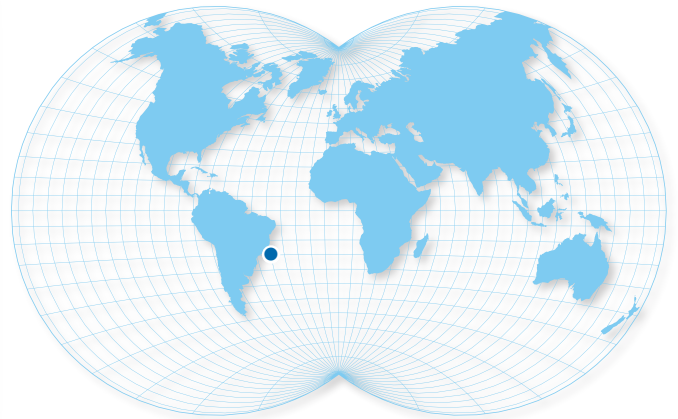


JUBARTI FIELD, CAMPOS BASIN, BRAZIL:

FPSO Cidade de Niteroi MV18 Spread Mooring



Scope of Work

SOFEC designed, provided analysis and procurement of a spread mooring system to moor a 258,000 dwt MODEC converted VLCC FPSO located in the Jubarti field of the Campos Basin offshore Brazil.

This FPSO is capable of being deployed on a variety of locations offshore Brazil. This project was bid under the name of Opportunity Oil and is deployed first on the Jubarti field in the Campos Basin

This SOFEC spread mooring system is ABS classed.

General Description

Client Name:	Petroleo Brasileiro S.A. (Petrobras)
Contract Award:	December 2006
Installation Date:	February 2009
First Oil:	February 2009
Vessel Size:	258,000 dwt
Storage Capacity:	1,600,000 bbls
Water Depth:	1,370m (417.7ft)

Design Environmental Criteria (100-year storm)

Significant Wave Height:	7.8m (26ft)
Wind Velocity:	30.8m/s (56 knots)
Surface Current:	1.8m/s (3.5 knots)

Mooring System

18-leg polyester/chain system
Pile supplied by client

Riser Systems

45 Risers