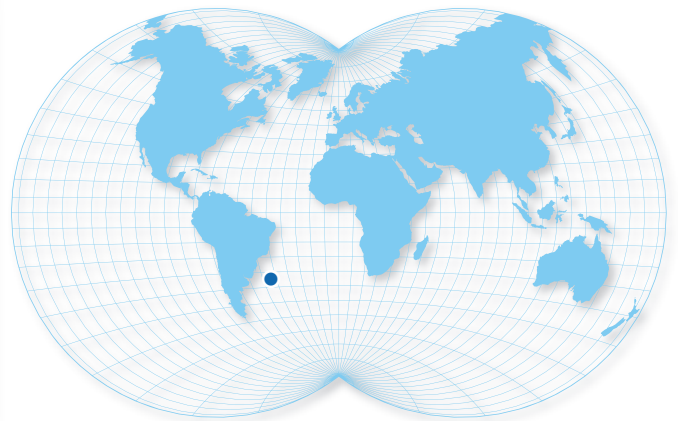


CAMPOS BASIN, BRAZIL:

FPSO Cidade de Campos dos Goytaczes MV29 Spread Mooring



Scope of Work

SOFEC designed and procured a spread mooring system for the FPSO Cidade de Campos dos Goytaczes – MV29 located in the BM-C-36 (Tartaruga Verde and Tartaruga Mestica fields, Campos Basin) offshore Brazil.

The FPSO is capable of processing 150,000 barrels of crude oil per day or 180,000 barrels of total fluids per day, 176 million standard cubic feet of gas per day and has a storage capacity of 1,600,000 barrels. The FPSO is capable of injecting 200,000 barrels of water per day.

The FPSO can accommodate a total of 62 flexible risers and umbilicals.

The SOFEC spread mooring system is ABS classed.

General Description

Client Name:	Petrobras
Contract Award:	November 2014
Installation Date:	May 2018
First Oil:	June 2018

Vessel Size:	248,000 dwt
Storage Capacity:	1,600,000 bbls
Water Depth:	765m (2,509ft)

Design Environmental Criteria (100-year storm)

Sig. Wave Height:	7.84m (38.06ft)
Wind Velocity:	29..19m/s (56.74 kts)
Current:	1.87m/s (3.63 kts)

Mooring System

2 x 6 legs and 2 x 5 legs mooring system consisting of chain and Torpedo piles supplied by Petrobras

Riser System

- 14 Production risers
- 14 Gas Lift / Service risers
- 1 Gas Injection Riser
- 8 Water Injection risers
- 1 Gas Export Import Riser
- 23 well control umbilical
- 1 optical cable