

New Giants Accumulations in the Campos and Espírito Santo Basins – Brazil: Exploratory Aspects

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A new cycle of oil discoveries has been occurring in deep-water northern part of the Campos basin and Espírito Santo basin, located in the eastern coast of Brazil.

In the Campos basin this cycle of new discoveries started with the 1-ESS-100 well (Jubarte field). Since 2002 an increase in exploration activities resulted in the discovery of a new petroleum province in the area, in Tertiary and Upper Cretaceous reservoirs, containing heavy and light oil. In the Jubarte field, Maastrichtian reservoirs present effective permeability of 1,200 mD and oil rate of around 20,000 bbl/d in a horizontal well (17° API oil). In the Cachalote field Eocene reservoirs present effective permeability of 4,500mD, 19° API oil and estimated oil rate of more than 20,000 bbl/d. Other discoveries have been made and the potential recoverable oil is over 2 billion barrels in this area.

In the Espírito Santo basin, by the first time it has been discovered in 2003 an expressive light oil accumulation in deep water conditions. The wildcat 1-ESS-123 drilled Upper Cretaceous oil bearing reservoirs.

The recent discoveries in these basins were based on an efficient exploratory campaign based on advanced knowledge of the petroleum system and using up-to-date available technology, developed both inside and outside the Company.
