

## **BARREIRINHAS BASIN, BRAZIL: AN EQUATORIAL ATLANTIC TRANSFORM BASIN**

TEIXEIRA, L. B., Petrobras S.A., Rio de Janeiro, Brazil and PALAGI, P. R., Petrobras S. A., Rio de Janeiro, Brazil.

The Barreirinhas Basin, is located in the Brazilian Equatorial Atlantic Margin. It covers an area of 60,000 Km<sup>2</sup>, onshore and offshore. Discontinuities of the Continental Lithosphere of the South American and African plates are correlated across the Atlantic and are linked to major E-W oriented oceanic fracture zones. The extension of the oceanic fracture zones, between Brazil and Africa, are marked by Pre-Cambrian shear zones which show histories of multiple strike-slip reactivation during the Phanerozoic. The Romanche Fracture Zone links Barreirinhas Basin to Offshore Gana Basin. Overlying the pre-rift sediments, clastic and carbonatic sequences were deposited from Aptian to Neogene, in a depocenter more than 7 Km thick. Three main oil and gas accumulations were discovered in the basin, ranging from 1500m to 3000m depth. Deltaic and turbiditic sandstones are the main reservoirs. The traps were developed during the Aptian-Albian rift phase and reactivated during the Albian-Cenomanian time. A revision of the tectonic framework and geology of the basin, based on geophysical data and well data will be presented in this work.