
Block Cabinda Center Block Overview

REGIONAL GEOLOGY

Cabinda Centro is located onshore the Congo Basin adjacent to the prolific offshore Block - 0. The aerial size of the block is 1425 sq.km. The previous exploration effort in this region was in the early 60's. The block has extensive Presalt half-grabens overlain by thick salt (mid Aptian) up to 700 meters.

The post-salt section is predominantly mid-Cretaceous (Late Aptian, Albian to Late Cretaceous). Tertiary is either absent or thin. The lack of Tertiary sediments is attributable to the major Miocene uplift. Thick delta clastic sediments in Albian to Cenomanian are recognized from onshore to offshore. This interval has a well defined reservoir section. The late Aptian is carbonate/clastic sediment section deposited in restricted marine conditions (Inhuca/Mavuma). Presalt reservoirs in lacustrine carbonates (Toca - Barremian) and fluvio-alluvial sands (Lucula - Neocomian to Barremian) are to be found in the rift half-grabens. In addition, lacustrine turbidities (Vovo - Barremian) will be other reservoir target. The earlier efforts have shown the presence of oil pools near the basement in cherty limestone (Nacanga). The source rock interval exclusively comes from Late Neocomian to Barremian lacustrine sediments in multiple organic facies.