

## **EXECUTIVE SUMMARY (Block-35-40)**

The Blocks 35 to 38 are located in the Kwanza Basin and the Blocks 39 and 40 are in the Benguela Basin. Specifically the Kwanza Basin and Benguela Basin are located between the prolific Cretaceous and Tertiary reservoir to the lower Congo Basin (North) and the Namibe Basin (South). None of the blocks have drilled wells; however, close to them there are some wells.

All the Blocks (35 to 40) are located in a North-South strip parallel to the coastline of Angola in the West African Coast. Those Blocks are located in the ultra deep water strip and its averages depth between 2000-2500 meters. All Blocks cover a total area of 36,791 km<sup>2</sup> and their areas varying between 4,900 km<sup>2</sup> and 7,550 km<sup>2</sup>.

## **BLOCK SUMMARYS**

### **Block-35**

Block 35 is located in the ultra deep water of Kwanza's basin at 150 km<sup>2</sup> west of Luanda. The Block is part of the northern area of this basin.

This Block forms part of the northern area of Kwanza Basin in the south of Ambriz arch. The block is structurally sited on outer trend of this basin were a number of leads have being identify on sag phase carbonate and syn rift phase from pre salt and tertiary and Albian carbonate phase from Post salt.

The total area of the block is approximately 4,907 km<sup>2</sup> and the water depth is about 2000-2500m deep.

The closest wells are Mariposa-1BIS, drilled in 2002, located in the Northern half of Block-19 with final depth of 3,570 meters, and Baleia-1, drilled in 1996, located in the Northeastern of Block-20 with final depth of 3,886 meters.

### **Block-36**

Block 36 is located in the ultra deep water offshore of the Kwanza's basin at 180 Km Southwest of Luanda.

The Block is located on northern area of Kwanza Basin in the south of Ambriz arch, positioned on inner slope of the basin at boundary between Lower Congo and Kwanza basin.

The total area of the block is approximately 4,904 km<sup>2</sup> and the water depth is about 2000-2500m deep.

The closest wells are Baleia-1, drilled in 1997 and it is located in the Northeastern of Block-20 and Delfim-1, drilled in 1998 and it is located in the East of Block-20.

The Baleia-1 reached to a final depth of 3,886 meters and Delfim-1 reached a final depth at 3,299 meters.

### **Block-37**

Block 37 is located in the ultra deep water offshore central part of Kwanza Basin at 220 Km Southwest of Luanda.

The block comprises basin shelf-slope over its eastern portion and salt mini-basin development in the central and western portions. The significant investment improving seismic image data on the pre salt have derived to de identification of several leads, on different pre salt and post plays.

The total extension of the block is approximately 5,315 km<sup>2</sup> and the water depth is about 2000-2500m deep.

The closest wells are Iona-1 and Kangandala-1, drilled in 2001 and 2002 respectively. Both wells are located in the middle of the Block-21.

The Iona-1 reached to a final depth of 3,081 meters and Kangandala-1 reached a final depth at 2,517 meters.

### **Block-38**

Block 38 is located in the ultra deep water offshore in the south of the Kwanza Basin at 280 Km Southwest of Luanda approximately.

In the Block 22, at the eastern of the Block-38 has a potential play in Albian to late Aptian shelf-edge carbonates, Tertiary channel/lobe sands and Pre salt lacustrine carbonates & sands. A potential for the renewed exploration exists

for the block that has the added advantage to focus on South of Kwanza basin exploration.

The total extension of the block is approximately 6,316 km<sup>2</sup> and the water depth is about 2000-2500m deep.

The close wells are Serra Do Moco- 1 drilled in 2002. The well is located in the middle of the Block-22.

The Serra Do Moco-1 reached to a final depth of 2,529.54 meters.

### **Block-39**

Block 39 is located in the ultra deep water offshore in the Benguela Basin at 300 Km Southwest of Luanda approximately. It is close to the Block-22 and Block-24.

The total extension of the block is approximately 7,809 km<sup>2</sup> and the water depth is about 2000-2500m deep.

Several plays are recognized in the block from Albian to late Aptian shelf-edge carbonates, Tertiary sands, syn rift sequence, and sag sediments are also present in the block.

The close wells are Serra Do Moco- 1 drilled in 2002 and it is located in the middle of the Block-22.

The Serra Do Moco- 1 reached the final depth of 2,529.54 meters.

### **Block-40**

Block 40 is located in the ultra deep water offshore south in the Benguela Basin at 360 Km Southwest of Luanda approximately. It is close to the Block-24 and Block-25.

The total extension of the block is approximately 7,541 km<sup>2</sup> and the water depth is about 2000-2500m deep.

The block has potential plays in Albian to late Aptian shelf-edge carbonates, Tertiary channel/lobe sands and Presalt lacustrine carbonates & sands. A potential for the renewed exploration exists for the block that has the added advantage to focus on Benguela sub-basin exploration.

The closest wells: Varina-11 drilled on 2003, Eova-11 drilled on 2001 and Semba-11 drilled on 2001 and they are located in the South part of the Block-24.

The final depths of the wells are: Varina-1 = 2,600 meters, Eova-11 = 4,072 meters and Semba-1 = 3,746 meters.