



### Benguela Basin – Angola – 1999

# ANG Blk 24 Reprocessed 3D

Multi-azimuth depth reprocessing gives a clearer image of pre and postsalt targets

The generation of a multi-azimuth image with reprocessing to depth provides new insight in this West African exploration hot spot. Increased resolution of syn-rift faulting through multi-azimuth reprocessing gives explorers a greater understanding of basin structure and prospectivity.

In partnership with:



Angola offshore acreage has world-class potential, with a proven petroleum system within both the syn-rift and post-rift sections. This is analogous to the proven producing systems along the conjugate margin of Brazil, Campos and Santos Basins.

Multi-azimuth reprocessing combined with a comprehensive depth imaging flow provides a broader frequency bandwidth for enhanced presalt illumination.

**SURVEY SUMMARY**

**Type:** 3D  
**Geometry:** Standard  
**Size:** 4 689 sq. km  
**Acquisition year:** 1999  
**Completion of processing:** 2013  
**Reprocessed:** Yes  
**Water depth:** 200 - 2 200 m  
**Shooting direction:** 90/270  
**Vessel:** Ramform Valiant  
**In partnership with:** ANPG

**ACQUISITION PARAMETERS**

**Number of streamers:** 12  
**Streamer length:** 4 500 m  
**Streamer separation:** 104 m  
**Shot interval:** 25 m  
**Record length:** 8 000 ms  
**Source depth:** 5 m  
**Sample rate:** 2 ms  
**Bin dimensions (Acquisition):** 12.5 x 12.5 m  
**Bin dimensions (Processing):** 12.5 x 12.5 m  
**Fold:** 45

**PROCESSING AND DELIVERABLES**

**Processing:** 3D surface related multiple elimination (SRME), High resolution radon demultiple, Kirchhoff prestack depth migration (PSDM)

**Depth products:** Final Kirchhoff PSDM stack, Final multi-azimuth (MAZ) stack, Final beam PSDM stack, PSDM gathers, Velocity model, Angle Stacks

**Additional products:** Gravity, Magnetics