Integrated exploration package for the Joint Development Zone of Nigeria & São Tomé e Príncipe

An integrated geoscience approach that incorporates reprocessed 3D seismic together with processed results of operator well log data and reports has been used to identify a number of targets and improve understanding of the hydrocarbon systems.

The JDZ is situated in the outer compressional zone of the Niger Delta. East-west trending toe thrusts are typically observed in this region and numerous stacked reservoir targets and nearfield development opportunities have been identified.

3D seismic reprocessed in combination with well-log data to create a high-quality fully migrated product with a modern AVO friendly sequence that includes prestack time migration.
SURVEY SUMMARY
Type: 3D
Geometry: Standard
Size: 3,004 sq. km
Acquisition year: 2002
Completion of processing: 2003-2007
Reprocessed: Yes
Water depth: 1500-2300 m
In partnership with: Joint Development Authority of Nigeria - São Tomé e Príncipe

ACQUISITION PARAMETERS
Number of streamers: 8
Streamer length: 6,000 m
Streamer separation: 100 m
Shot interval: 25 m
Record length: 9000 ms
Source depth: 6 m
Sample rate: 2 ms

PROCESSING AND DELIVERABLES
Time products: Final post-stack time migration, Final Kirchhoff PSTM Stack, Angle stack near, Angle stack mid, Angle stack far, PSTM gathers, Stacking velocity, Migration velocity

Additional products: Interpretation

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