Kwanza/Benguela/Namibe Basin – Angola – 2011

ANG Offshore 2D GeoStreamer®

A regional 2D GeoStreamer dataset over three basins

Over 12,000 km of high-quality 2D GeoStreamer data have been acquired, to build regional understanding of the hydrocarbon potential of the Kwanza, Benguela and Namibe Basins.

The PSDM 2D seismic imaging in this prospective frontier area reveals a number of untested basement structures in the presalt section, as well as the larger regional basement trend that controls the distribution and thickness of the presalt sediments.

The data provide a grid of high-quality seismic, approximately 25 km x 35 km and include well-tie lines into key wells in the shallower water to the east.
SURVEY SUMMARY

Type: 2D
Geostreamer: Yes
Geometry: Standard
Size: 12 465 km
Acquisition year: 2011
Completion of processing: 2013
Water depth: 100 - 4 000 m
Vessel: Harrier Explorer
In partnership with: Sonangol

ACQUISITION PARAMETERS

Number of streamers: 1
Streamer length: 10 050 m
Shot interval: 50 m
Record length: 15 000 ms
Source depth: 8 m
Sample rate: 2 ms
Bin dimensions (Acquisition): 6.25 m
Bin dimensions (Processing): 6.25 m
Fold: 100

PROCESSING AND DELIVERABLES

Processing: P-UP generation, 2D surface related multiple elimination (SRME), High resolution radon demultiple, Kirchhoff prestack time migration (PSTM), Kirchhoff prestack depth migration (PSDM), Reverse time migration (RTM)

Depth products: Final Kirchhoff PSDM stack, Final RTM PSDM stack, PSDM gathers, Velocity model, Angle Stacks, Final Kirchhoff PSDM angle sub-stacks, Anisotropy fields, Final PSDM gathers

Time products: Final Kirchhoff PSTM Stack, PSTM gathers, Stacking velocity, Migration velocity, Angle Stacks, P-UP shot gathers, Final Kirchhoff PSDM stacks, Final Kirchhoff PSDM angle sub-stacks, Final RTM stacks, Final PSDM gathers

Additional products: Gravity, Magnetics

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