Herodotus Basin – Cyprus – 2016

CYP Blk 6 and 10 3D GeoStreamer®

Essential for offshore exploration and prospecting in Block 6 and 10

Designed to identify exploration well locations, this survey is essential for prospecting in Block 6 and 10. Located at the intersection of Eratosthenes Seamount with the Herodotus and Levant Basins, it provides insight into the broader geological development in the eastern Mediterranean.

Large presence of Cretaceous to Miocene carbonates on top of the Eratosthenes continental block and its nearby satellite structures (Zohr analogues). Clastic reservoir potential elsewhere with turbidite systems derived from the Nile.

This modern 3D survey using GeoStreamer technology and long streamers was acquired in cooperation with the Cypriot Ministry of Energy. The survey is an invaluable tool for improving regional knowledge and understanding.
SURVEY SUMMARY

Type: 3D
Geostreamer: Yes
Geometry: Standard
Size: 6,045 sq. km
Acquisition year: 2016
Completion of processing: 2018
Water depth: 1,200-2,200 m
Shooting direction: 5/185
Vessel: Ramform Tethys
In partnership with: The Cypriot Ministry of Energy, Commerce, Industry and Tourism

ACQUISITION PARAMETERS

Number of streamers: 14
Streamer length: 9,000 m
Streamer separation: 25 m
Shot interval: 25 m
Record length: 10,000 ms
Source depth: 8 m
Sample rate: 2 ms
Bin dimensions (Acquisition): 12.5 x 12.5 m
Bin dimensions (Processing): 12.5 x 12.5 m
Fold: 180

PROCESSING AND DELIVERABLES

Processing: P-UP generation, 3D surface related multiple elimination (SRME), High resolution radon demultiple, Anisotropic Kirchhoff prestack time migration (PSTM), XT / Tau-P Deconvolution

Depth products: Final Kirchhoff PSDM stack, Final beam PSDM stack, PSDM angle stack near, PSDM angle stack mid, PSDM angle stack far, PSDM angle stack u-far, PSDM gathers, Velocity model

Time products: Final Kirchhoff PSTM Stack, Angle stack near, Angle stack mid, Angle stack far, Angle stack u-far, PSTM gathers, Stacking velocity, Migration velocity

Additional products: Gravity, Magnetics

Section across the edge of the Eratosthenes seamount flanked by Messinian Evaporites

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