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:** 1,200-2,000 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

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