CYP 2006 2D

Essential 2D coverage for prospecting in Cyprus’ offshore exploration acreage

The 2D survey covers all licensed and unlicensed exploration blocks in Cyprus and the data coverage enables the regional assessment of hydrocarbon potential and can be used to rank the designated exploration blocks.

The Aphrodite field and other play types have been defined including sub-salt structures with Miocene sandstone reservoirs of distant Nile Delta sediments and stratigraphic traps. The Herodotus Basin and Eratosthenes are considered frontier plays in Pliocene or pre-Messinian carbonate successions.

Acquired in cooperation with the Cypriot Ministry the survey provides seismic clarity in this underexplored region with limited well information.
SURVEY SUMMARY

- **Type:** 2D
- **Geometry:** Standard
- **Size:** 6,770 km
- **Acquisition year:** 2006
- **Completion of processing:** 2007, 2011
- **Reprocessed:** Yes
- **Water depth:** 1,000-2,500 m
- **Shooting direction:** 100/190
- **Vessel:** Falcon Explorer
- **In partnership with:** The Cypriot Ministry of Energy, Commerce, Industry and Tourism

ACQUISITION PARAMETERS

- **Number of streamers:** 1
- **Streamer length:** 8100 m
- **Shot interval:** 25 m
- **Record length:** 9,216 ms
- **Source depth:** 8 m
- **Sample rate:** 2 ms
- **Bin dimensions (Acquisition):** 12.5 m
- **Bin dimensions (Processing):** 12.5 m
- **Fold:** 162

PROCESSING AND DELIVERABLES

- **Processing:** High resolution radon demultiple, Kirchhoff prestack depth migration (PSDM), Beam depth migration, Pre-processing, SRME, SOFA/MDA/FX-decon, Zero Phasing, Kirchhoff PSTM, NMO Stack, Post Stack

  **Time products:** PSTM gathers, Final PSTM stacks, Raw PSTM Stack, Offset PSTM stacks (Near-Mid-Far), Final PSDM stacks, Final PSDM gathers

  **Additional products:** Interpretation

2D section across the Eratosthenes seamount flanked by Messinian Evaporites
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