Central Graben – Norway – 2010-2015

PGS18M09CGR 3D GeoStreamer®

Ideal dataset for detailed mapping of existing fields and exploration targets in the Central Graben

Get a unique insight into the structural geology and petroleum system of the Central Graben with this large scale GeoStreamer dataset. The survey comprises MC3D-CGR2010, CGR2011, CGR2012, CGR2013, CGRN13, NDB2013, TEG2013, PGS15001, PGS15008, PGS15015, and PGS16008.

From North to South, the Central Graben dataset covers Gert Ridge over the Gertrud Graben, Piggyvar Terrace and Mandal High, Søgne Basin, the Coffee Soil Fault complex, Heno Plateau, the Tail End Graben and Ringkøbing Fyn High.

Coverage has been built up over several years of consistent acquisition using GeoStreamer technology. The data have been processed and imaged in depth using the same modern workflows to allow a unified interpretation approach through the entire volume.
SURVEY SUMMARY

Type: 3D
Geostreamer: Yes
Size: 23 085 sq. km
Acquisition year: 2010-2015
Completion of processing: 2019
Reprocessed: Yes
Water depth: 60 m
Shooting direction: 8 / 325
Vessels: Ramform Atlas, Ramform Challenger, Ramform Valiant, Ramform Vanguard, Ramform Viking, Atlantic Explorer

ACQUISITION PARAMETERS

Number of streamers: 6 / 10 / 12
Streamer length: 6 000 / 8 100 m
Streamer separation: 75 / 100 m
Shot interval: 18.75 m
Record length: 7 000 / 7 168 / 7 680 / 8 704 ms
Source depth: 7 / 15 m
Sample rate: 2 ms
Bin dimensions (Acquisition): 18.75x6.25 / 25x6.25 m
Bin dimensions (Processing): 12.5x12.5 m
Fold: 98 / 160 / 108

PROCESSING AND DELIVERABLES

Processing: P-UP generation, Full source deghosting, Full source and receiver deghosting (conventional data), 3D surface related multiple elimination (SRME), Wave equation 3D SRME, High resolution radon demultiple, HyperTomo velocity model building, Full waveform inversion (FWI), Kirchhoff prestack depth migration (PSDM), Beam depth migration, Q-migration, Separated wavefield imaging (SWIM), Post-migration image optimization

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, Anisotropy and velocity models, Velocity model, Final Kirchhoff PSDM angle stacks

Additional products: Interpretation

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