PGS20M02ESB 3D GeoStreamer (In Processing)

Survey covering frontier and mature areas with new broadband seismic enabling hydrocarbon assessment

This survey aims to utilize PGS acquisition and imaging technology to obtain high quality 3D data that covers prospects and leads within the East Shetland area, and provide high resolution PSDM seismic data to enable mapping of the fault systems and the Brent sandstone to evaluate the HC potential.

The Triassic Cormorant Formation and Jurassic Brent Group are the main reservoir levels. The structural definition below BCU will be important to understand the source migration pathways of the Kimmeridge Clay into the structural fault blocks, which are the main trapping mechanisms.

Multisensor GeoStreamer acquisition with wide-tow triple source provides high-density data. The data will be processed using state-of-the-art technology, including Complete Wavefield Imaging (CWI). Targets in the basin and on the platform will be imaged using anisotropic TTI Kirchhoff PSDM.
**SURVEY SUMMARY**

- **Type:** 3D
- **Geostreamer:** Yes
- **Geometry:** Standard
- **Size:** 1455.1 sq. km
- **Acquisition year:** 2020
- **Completion of processing:** 2021
- **Water depth:** 150 m
- **Shooting direction:** 271/91
- **Vessel:** Ramform Tethys

**ACQUISITION PARAMETERS**

- **Number of streamers:** 12
- **Streamer length:** 8025 m
- **Streamer separation:** 93.8 m
- **Shot interval:** 12.5 m
- **Record length:** 9572 ms
- **Source depth:** 7 m
- **Sample rate:** 2 ms
- **Bin dimensions (Acquisition):** 6.25 x 15.625 m
- **Bin dimensions (Processing):** 12.5 x 12.5 m
- **Fold:** 107

**PROCESSING AND DELIVERABLES**

- **Processing:** P-UP generation, Full source deghosting, 3D surface related multiple elimination (SRME), Wave equation 3D SRME, High resolution radon demultiple, Full waveform inversion (FWI), Kirchhoff prestack depth migration (PSDM), Separated wavefield imaging (SWIM), Anisotropic Kirchhoff prestack time migration (PSTM)

- **Depth products:** Final Kirchhoff PSDM stack, PSDM gathers, Anisotropy and velocity models, Final Kirchhoff PSDM angle stacks

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

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