PGS19M05VIK GeoStreamer X 3D

GeoStreamer® (In Processing)

GeoStreamer X redefines multi-azimuth data as a faster and smarter solution than nodes

This advanced high-density multi-azimuth solution is complementary to existing GeoStreamer coverage. GeoStreamer X will provide high-end exploration data to resolve the imaging challenges present in the Viking Graben and reveal the remaining potential.

The area is known for good-quality hydrocarbon reservoirs and complex geology. Late Jurassic rifting led to the formation of numerous horsts and rotated fault blocks along the margins of the Viking Graben. Play types ranging from sand injectites, deep marine fans, carbonates and fractured basement.

GeoStreamer X utilizes the latest PGS’ acquisition innovations by combining multisensor broadband fidelity with multi-azimuth illumination, wide-tow sources and dense streamer spacing for improved near-offset distribution, and long streamers for accurate velocity model building.
**SURVEY SUMMARY**

- **Type:** 3D
- **Geostreamer:** Yes
- **Geometry:** MAZ
- **Size:** 545 sq. km
- **Acquisition year:** 2019
- **Completion of processing:** 2020
- **Water depth:** 100-120 m
- **Shooting direction:** MAZ
- **Vessel:** Ramform Vanguard

**ACQUISITION PARAMETERS**

- **Number of streamers:** 12
- **Streamer length:** 6,000 and 10,000 m
- **Streamer separation:** 84.4 m
- **Shot interval:** 12.5 m
- **Record length:** 9,000 ms
- **Source depth:** 7 m
- **Sample rate:** 2 ms
- **Bin dimensions (Acquisition):** 6.25 x 14.0625 m
- **Bin dimensions (Processing):** 12.5 x 12.5 m
- **Fold:** 80 (Per acquired azimuth)

**PROCESSING AND DELIVERABLES**

**Processing:**
- P-UP generation
- Full source deghosting
- 3D surface related multiple elimination (SRME), Convolutional 3D SRME, Wave equation 3D SRME, High resolution radon demultiple
- HyperTomo velocity model building, Full waveform inversion (FWI), Kirchhoff prestack depth migration (PSDM)

**Depth products:**
- Final Kirchhoff PSDM stack, Final multi-azimuth (MAZ) stack
- PSDM angle stack near, PSDM angle stack mid, PSDM angle stack far
- PSDM gathers, Anisotropy and velocity models, Velocity model, Final Kirchhoff PSDM angle stacks

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