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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