PGS20M05VIK GeoStreamer X 3D GeoStreamer® (In Acquisition)

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 seismic data suited to resolve the imaging challenges present in the Viking Graben and reveal the remaining potential.

The area is known for its prolific source rock and good-quality reservoirs. Late Jurassic rifting led to the formation of numerous horst and rotated fault blocks along the margin of the Viking Graben. Targets range from Eocene injectites, deepmarine fans, fluvial deposits to weathered basement.

GeoStreamer X utilizes the latest PGS’ acquisition and Imaging innovations and are combining multisensor broadband fidelity with multi-azimuth illumination, wide-tow sources and dense streamer spacing for improved near-offset distribution, and long streamer for accurate velocity model building.
SURVEY SUMMARY
Type: 3D
Geostreamer: Yes
Geometry: MAZ
Size: 1170 sq. km
Acquisition year: 2020
Completion of processing: 2021
Water depth: 100-130 m
Shooting direction: MAZ
Vessel: Ramform Vanguard

ACQUISITION PARAMETERS
Number of streamers: 14
Streamer length: 6000 & 10000 m
Streamer separation: 93.8 m
Shot interval: 12.5 m
Record length: 9000 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: 80 (Per acquired azimuth)

PROCESSING AND DELIVERABLES
Processing: P-UP generation, Full source deghosting, 3D surface related multiple elimination (SRME), High resolution radon demultiple, 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, Final Kirchhoff PSDM angle stacks

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