



Culture: IHS Markit



North Sumatra - Andaman Sea - Indonesia - 2018

## North Sumatra 3D GeoStreamer

PGS is covering the Andaman basin with MultiClient 3D GeoStreamer

This survey targets the central and western margin of the North Sumatra Basin, expanding the understanding beyond existing discoveries and shelfal-related wells along the southern and eastern margin of the basin.

The current plays are Miocene carbonates, Miocene/Pliocene clastics and an Oligocene syn-rift, with a deeper untested syn-rift play and kitchen extension.

PGS GeoStreamer technology will provide high quality resolution at all depths, from overburden to target structures to allow for better understanding of the rift section and the structural definition of the basement.

**SURVEY SUMMARY**

**Type:** 3D  
**Geostreamer:** Yes  
**Geometry:** Standard  
**Size:** 9276 sq. km  
**Acquisition year:** 2018  
**Completion of processing:** 2020  
**Water depth:** 60-1500 m  
**Shooting direction:** NW-SE  
**Vessel:** PGS Apollo  
**In partnership with:** NA

**ACQUISITION PARAMETERS**

**Number of streamers:** 10  
**Streamer length:** 8025 m  
**Streamer separation:** 112.5 m  
**Shot interval:** 16.667 m  
**Record length:** 10 ms  
**Sample rate:** 2 ms  
**Bin dimensions (Acquisition):** 6.25 x 18.75 m  
**Bin dimensions (Processing):** 12.5 x 12.5 m  
**Fold:** 80

**PROCESSING AND DELIVERABLES**

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

**Depth products:** Anisotropy and velocity models, Final Kirchhoff PSDM Stack, PSDM Gathers, PSDM angle stacks

**Time products:** Final Kirchhoff PSTM Stack, PSTM gathers, Stacking velocity, Migration velocity, PSTM Angle stacks

**Additional products:** Gravity, Magnetics