



East Java Madura - Indonesia - 2017

## North Madura 3D GeoStreamer®

Revolutionize your understanding of the North Madura Platform and its associated grabens.

State of the art recording and imaging techniques, available in Indonesia for the first time, offer new insights, revealing the proven and under-explored Ngimbang clastics, the distribution and geometry of grabens, basement definition, and imaging of high dips on faults that can act as seals.

There are numerous untested leads in Kujung Limestone. The deeper Ngimbang play is prevalent in the survey area, and there is also a potential basement play. The key to success is understanding the petroleum system.

GeoStreamer acquisition and imaging techniques, including SWIM, record more detailed broadband data from shallow to deep. These exploit a full spectrum of low-to-high frequencies to provide clearer images and more reliable data for AVO/AVA analysis.

In partnership with:



**SURVEY SUMMARY**

**Type:** 3D  
**Geostreamer:** Yes  
**Geometry:** Standard  
**Size:** 2536 sq. km  
**Acquisition year:** 2017  
**Completion of processing:** 2018  
**Water depth:** 30-80 m  
**Shooting direction:** various  
**Vessel:** PGS Apollo  
**In partnership with:** MIGAS

**ACQUISITION PARAMETERS**

**Number of streamers:** 8  
**Streamer length:** 7 050 m  
**Streamer separation:** 150 m  
**Shot interval:** 16.667 m  
**Record length:** 10 000 ms  
**Source depth:** 7 m  
**Sample rate:** 2 ms  
**Bin dimensions (Acquisition):** 6.25 x 25 m  
**Bin dimensions (Processing):** 12.5 x 12.5 m  
**Fold:** 70

**PROCESSING AND DELIVERABLES**

**Processing:** 3D surface related multiple elimination (SRME), Multi-sensor wavefield separation and P-UP generation, Kirchhoff prestack depth migration (PSDM)

**Depth products:** Final Kirchhoff PSDM stack, PSDM gathers, Velocity model

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

**Additional products:** Interpretation