



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