



Kutei Basin - Indonesia - 2000

Makassar 3D

This high quality dataset provides insight into the highly prospective Kutei Basin

The Kutei Basin is regarded as one of the most prolific basins in Indonesia, where at least 24 BBOE have been discovered to date. The focus in this area has shifted over the last 10 years to deeper water exploration after several oil and gas discoveries in water depths of 600-1 800 meters.

The offshore Kutei Basin is still largely under explored, although numerous discoveries made offshore of SE Kalimantan (closer to the shelf) have generated optimism about the prospectivity of the area. The recent reprocessing has resulted in multiple Tcf added to the reserve estimates.

In 2006, 1 370 sq km of the Makassar MC3D was reprocessed to anisotropic pre-stack time migration, predominately over the SE Mahakam block. In 2012 the remaining portion of the 3D dataset was reprocessed utilizing state-of-the-art 3D SRME, High Res Radon Demultiple and Pre-Stack Time Migration.

In partnership with:



SURVEY SUMMARY

Type: 3D
Geometry: Standard
Size: 8 229 sq. km
Acquisition year: 2000
Completion of processing: 2012
Reprocessed: Yes
Water depth: 40-2 200 m
Shooting direction: SSW/NNE
(29/209)
Vessels: Ramform Challenger,
Nordic Explorer
In partnership with: MIGAS

ACQUISITION PARAMETERS

Number of streamers: 10-6
Streamer length: 4 500 m
Streamer separation: 100 m
Shot interval: 25 m
Record length: 8 000-6 144 ms
Source depth: 6-4 m
Sample rate: 2 ms
Bin dimensions (Acquisition): 6.25 x 25 m
Bin dimensions (Processing): 12.5 x 12.5 m
Fold: 60

PROCESSING AND DELIVERABLES

Processing: 3D surface related multiple elimination (SRME), High resolution radon demultiple, Anisotropic Kirchhoff prestack time migration (PSTM)

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