Nigeria – 2004

NGA OPL 314/315/321/323

Reprocessed 3D

Revitalization of MC3D to produce modern PSDM

This is the missing link that enables the integrated exploration joining the West Africa Transform Margin to the Niger Delta Basins. Located at the meeting point between the Benin Embayment and the Benue Trough, this 3D dataset covers an area over blocks OPL314, OPL315, OPL321 and OPL323.

The primary source rock of the prolific petroleum system in Niger Delta province is organic-rich marine shale of the Akata formation, the main reservoir is the Agbada Formation. Many fields have been discovered to the south and east, including the giant Bosi (1996), Erha (1999) and Oyo North (2018).

Optimized denoising algorithms and a full deghosting sequence improve data bandwidth and signal-to-noise ratio. The multiple attenuation sequence eliminates complex multiples, and a full-velocity model building sequence, together with a depth migration, improves the image integrity.
### SURVEY SUMMARY

- **Type:** 3D  
- **Geometry:** Standard  
- **Size:** 2969.3 sq. km  
- **Acquisition year:** 2004  
- **Completion of processing:** 2019  
- **Reprocessed:** Yes  
- **Water depth:** 500 - 2000 m  
- **Shooting direction:** 135 / 315  
- **In partnership with:** DPR

### ACQUISITION PARAMETERS

- **Number of streamers:** 8/10  
- **Streamer length:** 6300 m  
- **Streamer separation:** 75 m  
- **Shot interval:** 25 m  
- **Record length:** 8500 ms  
- **Sample rate:** 2 ms  
- **Bin dimensions (Acquisition):** 12.5 x 18.75 m  
- **Fold:** 60

### PROCESSING AND DELIVERABLES

**Depth products:** Velocity model, Final Beam PSDM stack, Final & Raw Kirchhoff PSDM stack, Final & Raw Kirchhoff PSDM angle stacks, Final & Raw Kirchhoff PSDM gathers, Processing report

**Time products:** Demultiple shots, Regularized CMP gathers, Post-demultiple PoSTM stack, Velocity model, Final & Raw Kirchhoff PSTM stack, Final & Raw Kirchhoff PSTM angle stacks, Final & Raw Kirchhoff PSTM gathers, Processing report

Agbada formation turbiditic reservoir facies are clearly delineated in the new reprocessed dataset.

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Oct 2020