



Namibe Basin – Namibia – 2019

NAM 2019 3D GeoStreamer (In Processing)

First MultiClient 3D GeoStreamer Offshore Namibia

The Namibe Basin exploration efforts expand 3D coverage into deeper waters. The 8 910 sq. km 3D survey covers the northern Namibian offshore blocks and brings an unprecedented perspective in water depths greater than 1 000 m.

The Upper Cretaceous plays take center stage in this part of the South Atlantic passive margin. Large eroded four way dip closures in the shallower part of the survey such as Kunene and Tapir were previously the focus of interest and are also included in the survey.

New regional broadband 3D data and FWI velocity model building will better image structures, faults and traps. Compliant AVO attributes will significantly derisk deepwater exploration in the frontier Namibe Basin.

In partnership with:



SURVEY SUMMARY

Type: 3D
Geostreamer: Yes
Geometry: Standard
Size: 8910.2 sq. km
Acquisition year: 2019
Completion of processing: 2021
Water depth: 500 - 3 500 m
Shooting direction: 0/180 & 90/270
Vessel: Sanco Swift
In partnership with: NAMCOR

ACQUISITION PARAMETERS

Number of streamers: 12
Streamer length: 8 025 m
Streamer separation: 150 m
Shot interval: 16.667 m
Record length: 10 000 ms
Source depth: 8 m
Sample rate: 2 ms
Bin dimensions (Acquisition): 6.25 x 25 m
Bin dimensions (Processing): 12.5 x 25 m
Fold: 80

PROCESSING AND DELIVERABLES

Processing: H-Raw & G-Raw Generation, Receiver & Source 3D De-Ghosting, 3D De-Signature to Zero Phase, Dual 3D SRME, Multi-Model Adaptive Subtraction, Multiple Diffraction Removal, 5D Regularization & Interpolation, High Resolution Radon De-Multiple, Anisotropic Kirchhoff PSTM Velocity Analysis, Final Anisotropic Kirchhoff PSTM Migration, HyperTomo Velocity Model Building, Full Wave Inversion (FWI), Final Anisotropic Kirchhoff PSDM Migration, Post-Migration Image Optimization, Denoise

Depth products: Raw & Final Kirchhoff PSDM Stacks, Raw & Final Kirchhoff PSDM Angle Stacks, Raw & Final Kirchhoff PSDM Offset Gathers, Depth Velocity Model, Depth Velocity Model Attributes, Imaging Report

Time products: Post 3D De-Multiple Pre-Stack Shots, Post Regularization Pre-Stack 3D CMPs, Fast Track Raw & Final Kirchhoff PSTM Stacks, Fast Track Raw & Final Kirchhoff PSTM Angle Stacks, Fast Track Raw Kirchhoff PSTM Offset Gathers, Fast Track