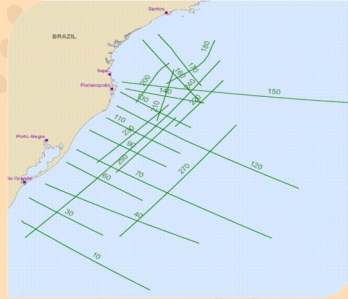


# PelotasSPAN

## PROGRAM OVERVIEW

ION's PelotasSPAN™ is a large regional seismic and potential field study set in the Pelotas and Southern Santos basins of Brazil. The program ties in to the BrasilSPAN™ Pre-salt Study over Santos, Campos and Espirito Santos survey to the north and the planned UruguaySPAN™ survey to the south.



Collectively, the BrasilSPAN surveys contiguously cover the major geological provinces in the Latin American Atlantic Margin from Southern Argentina to Foz do Amazonas at the Brazil-French Guiana border.

PelotasSPAN consists of approximately 10,400 km of long-offset, depth-imaged data migrated to 40 km that will provide significant new clues to the crustal architecture and the tectonic evolution of the margin. The dataset is helping to understand the nature of the transition from the salt areas of Southern Santos to the Pelotas where no salt was deposited, as well as the hydrocarbon potential of the Pelotas and Southern Santos basins.

Seismic data from PelotasSPAN shows that the sediments in the Pelotas basin are sufficiently thick for generation of hydrocarbons. Numerous gas chimneys and possible hydrocarbon indicators seen in the data indicate the presence of an active petroleum system. The program is helping to unravel the nature of the source, timing of hydrocarbon generation, and the structural and stratigraphic features that control migration pathways.

The PelotasSPAN dataset is complete and available for staged deliverables. PelotasSPAN ties into another 2D multi-client survey acquired by ION over the BMP-2 blocks with Petrobras. The dense 2D grid (approximately 8,000 km) is available for licensing through ION for additional coverage over Pelotas.

## PROGRAM OBJECTIVES

- To provide a regional depth-imaged framework to promote better understanding of the region's tectonic architecture and basement structure
- To build paleo-tectonic ties with corresponding regions in Africa through ION's unique AfricaSPAN™ datasets covering Angola to Namibia
- To develop a comprehensive deep-basin framework and a model for the hydrocarbon potential of Brazil's frontier basins in the south

## About BasinSPANS™

ION's BasinSPANS (SPANS) are geologically inspired, basin-scale seismic data programs acquired and depth-imaged by ION's unmatched GX Technology experts using the most advanced geological and geophysical processing tools available. They provide upstream companies with the ability to evaluate the geologic evolution, deep basin architecture and depositional and structural histories of entire petroleum systems in a region.

Unlike conventional multi-client seismic surveys, BasinSPANS are custom designed in collaboration with ION's GeoVentures group, regional experts and the O&G companies. Once the program objectives are agreed upon, ION serves as project manager and applies the best survey design, acquisition and processing technologies with a proprietary mindset that adds value and achieves exceptional results. Such in-depth data and the associated interpretation tools greatly assists asset managers with portfolio management and provides significant risk mitigation as they develop exploration and appraisal programs with greater confidence.

ION owns one of the most up-to-date seismic data libraries in the industry, consisting of 2D, 3D and full-wave (multicomponent) data from around the world.

## PROGRAM OBJECTIVES (Continued)

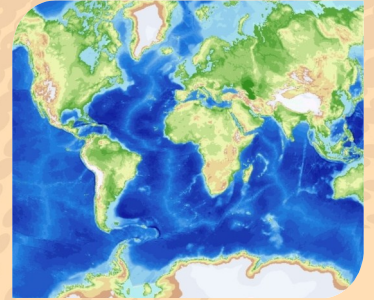
- To develop new plays based on new petroleum systems – provide comprehensive interpretation that includes maps of the area's active petroleum systems, the likely limits of existing plays and the location of new plays
- In conjunction with ArgentineSPAN, UruguaySPAN, BrasilSPAN Pre-Salt Study and Greater BrasilSPAN, PelotasSPAN will provide a contiguous look into one of the most prolific hydrocarbon generating regions

## KEY COMPONENTS

- 10 km offsets, 18 sec record length, and a special source designed for optimal, deep imaging
- Pre-stack depth imaging to 40 km for complete imaging of the crust
- Data is imaged through pre-stack time and pre-stack depth imaging
- Data available for immediate delivery
- Dataset is revealing exciting new play potential in the Pelotas and Southern Santos basins
- Program provides new extent of salt in Southern Santos.

## DELIVERABLES, WITH FULL PARTICIPATION, INCLUDE

- PreSTM stacks, gathers and velocity model
- PreSDM stacks and velocity model
- Structural and stratigraphic interpretation
- Acquisition, processing and interpretation reports
- Navigation-merged shot records
- Gravity and magnetic data



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