



Pelotas Basin - Uruguay - 2012 - 2013

Uruguay 3D GeoStreamer

15,600sqkm GeoStreamer survey offshore Uruguay covering a large portion of the Pelotas basin.

The Uruguayan offshore basins were formed during the break-up of Gondwana and later opening of the Atlantic Ocean during the Late Jurassic to Early Cretaceous period. The breakup between Africa and South America formed a rift system in the Jurassic but evolved into a passive continental margin.

Opening of the Atlantic Ocean contains four major tectonic segments each bounded by major fracture zones perpendicular to the axis of rifting. Offshore Uruguay is located within the southern Austral segment bounded to the South by the Falkland fracture zone, to the North by the Rio Grande zone.

GeoStreamer delivers broadband data even under harsh operating conditions due to the deep tow configuration. The PGS GeoStreamer dataset is well positioned to provide further insights into this underexplored region which has significant prospectively potential.



Uruguay 3D GeoStreamer

SURVEY SUMMARY

Type: 3D Geostreamer: Yes Geometry: Standard Size: 15600 sq. km Acquisition year: 2012 - 2013 Completion of processing: 2015 Water depth: 100 - 2600 m Shooting direction: Phase A 127.4 / 307.4, Phase B 37.4 / 217.4 Vessel: Ramform Vanguard In partnership with: ANCAP

ACQUISITION PARAMETERS

Number of streamers: 12 Streamer length: 7050 m Streamer separation: 100 m Shot interval: 25 m Record length: 10000 ms Source depth: 8 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: P-UP generation, 3D surface related multiple elimination (SRME), 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

Additional products: Demultiple Gathers



Jurassic – Early Cretaceous syn-rift deposits overlain by Cretaceous – Tertiary post-rift turbidite systems.





In partnership with:



Punta del Este Basin - Uruguay - 2011 and previous

URU21-REPRO 2D

Rejuvenated 2D data revealing new mini-basins offshore Uruguay

The MC2D-URU21_REPRO 2D survey is the result of an agreement between PGS and ANCAP. The survey reveals variable structural framework between the Pelotas and Punta del Este basins and the associated differential sedimentation during the Cretaceous and Cenozoic.

Data quality improvements can be seen throughout the full section. This allows a better understanding of the petroleum system, including the identification and distribution of source rocks, reservoirs, and seal/trap systems.

Modern signal processing and imaging workflows were used to reveal a structural framework that was not previously visible.



PGS DataLibrary Punta del Este Basin

URU21-REPRO 2D

SURVEY SUMMARY

Type: 2D Geometry: Standard Size: 11639 km Acquisition year: 2011 and previous Completion of processing: 2022 Reprocessed: Yes In partnership with: ANCAP

ACQUISITION PARAMETERS

Streamer length: 2400 / 8100 m Streamer separation: 100 m Shot interval: 25 / 37.5 / 50 / 100 m Record length: 4000 / 6000 / 8000 / 10000 ms Fold: 12 / 24 / 48 / 108 / 162

PROCESSING AND DELIVERABLES

Depth products: Final Kirchhoff PSDM stack, PSDM angle stack near, PSDM angle stack mid, PSDM angle stack far, PSDM angle stack u-far, PSDM gathers, Anisotropy and velocity models, Velocity model

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

