



OFFSHORE KWANZA AND BENGUELA BASINS

LOCATION

The Kwanza Basin is located on the West African margin, between latitudes 8° and 11°30'S, bordered to the north by the Offshore Lower Congo Basin and to the south by the Offshore Benguela Basin.

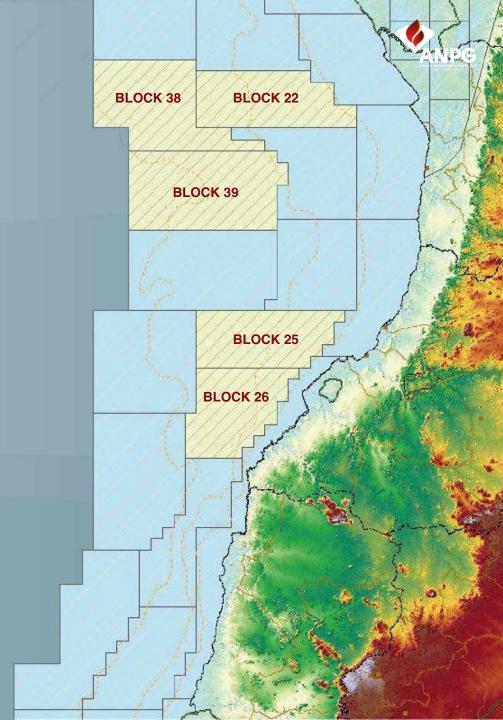
The Benguela Basin On the West African margin, between latitudes 8° and 11°30'S, is bordered to the North by the Offshore Kwanza Basin and to the South by the Offshore Namibe Basin.

Area ~ 70.578,87 Km²

Blocks 14 + KUD

Water Depth < 4000

Area ~ 25.047,9 Km²
Blocks 05 + BUD
Water Depth < 3000



OFFSHORE KWANZA AND BENGUELA BASINS E&P HISTORY



KWANZA

1980 - 1996

1968 - 1969

- 1968: Start of exploration in the Offshore Kwanza Basin (Total, CFP, Texaco)
- 1969: 2 exploration wells drilled by PETRANGOL (Praia-1 and Sangano-1) in Block 7
- 1968: 1980: 5,570 km of 2D seismic by Citie Services, 5 exploration wells. Dendém-1 well, non-commercial discovery;
- Block 7: 5,816 km of 2D seismic and 1,557 km2 3D by ELF, and 5 exploration wells drilled (Zimbo-1, Quiteta-1, Voluta-1, Porcelana-1 and Navalha-1);
- Block 8: 2 exploration wells with indications of oil, Ametista-1 and Berilio-1.

1997 - 2002

- Block 7: 1997- ENERGY AFRICA acquired 632 km² of 3D seismic, multi-client by WGC and drilled 2 exploration wells (Mabanga-1 and Mexilhão-1);
- Block 9: 1999-2002 Texaco drilled 2 exploration wells Jambo-1 and Goiaba-1.



BENGUELA

- Gravimetric data survey and acquisition of 2D and 3D seismic lines, with 3 462 Km 2D and 9775 Km² 3D in Block 24 by PGS; 2 771.99 Km 2D and 4 920 Km² 3D in Block 40 acquired by PGS; 1 651 Km 2D and 949.43 Km² 3D in Block 10
- 5 exploration wells drilled in Block 24, Semba-1, Eova-1 and Varina-1/ ESSO, Kabetua-1/ DEVON and Katambi-1/ BP.

- 2000 to 2001, 3 exploration wells were drilled in Block 25 by AGIP, Leão-1, Jaguar-1 and Pantera-1,
- 2001 was marked as the year of the first oil discovery in the Benguela Maritime Basin by the Semba-1 well.

2000

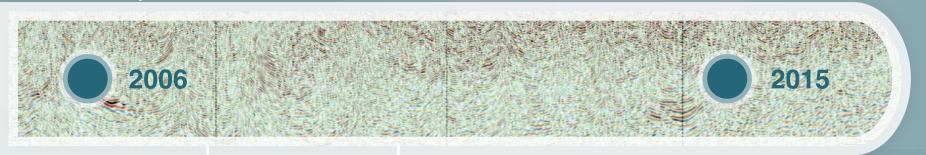
OFFSHORE KWANZA AND BENGUELA BASINS E&P HISTORY



KWANZA

2006 - 2015

- Block 8: Maersk acquired 1,200 km2 of 3D seismic in 2006..;
- Block 9: Between 2009 and 2016, Cobalt acquired 2,501 km2 of 3D seismic and drilled a Loengo-1 exploration well;
- Block 23: first pre-salt discovery with the Azul-1 exploration well, followed by the Cameia-1 well on Block 21, the Katambi-1 well on Block 24, Golfinho-1, Golfinho-2 and Granadier-1 on Blocks 20/21.



exploration wells in Block 10 (Ngueve-1 and Henda-1),

DEVON drilled two (2)

- 2010

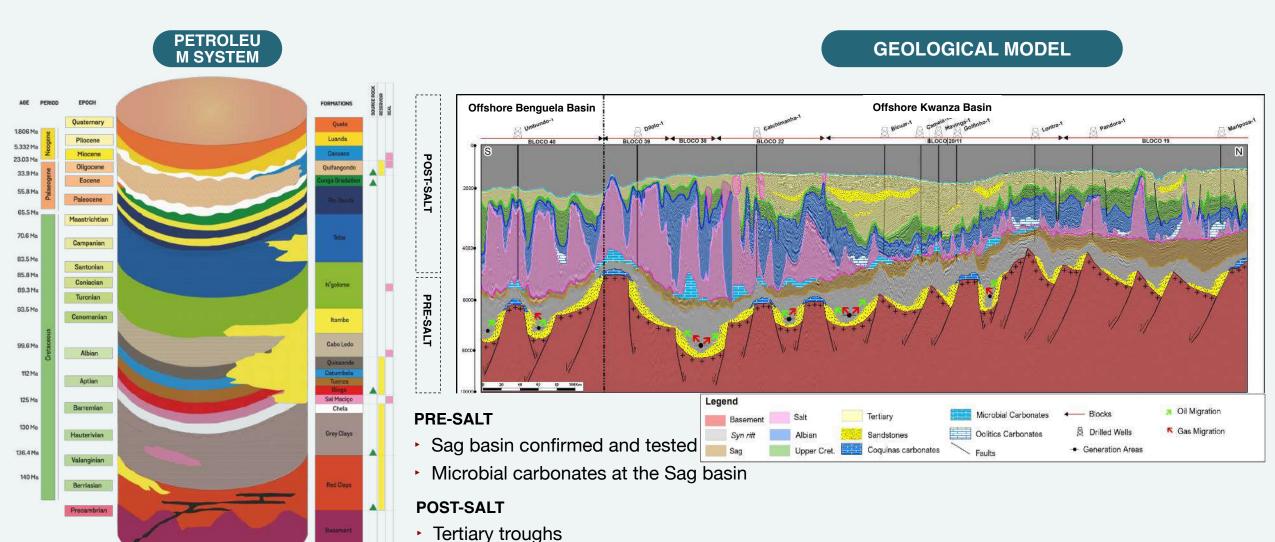
BENGUELA

- In 2011 it acquired 11,837.9 km² of 3D seismic.
- In 2012, PETROBRAS drilled the Ogonga-1 well in Block 26, targeting the pre-salt.
- In 2014 TOTAL drilled the Puma-1 pre-salt exploration well in Block 25 and 5,219 km² of multi-client 3D seismic were acquired by PGS between 2017 and 2019.
- Gas discovery from the Katambi-1 well at pre-salt level in 2014 in Block 24.
- In 2015 TOTAL drilled the Umbundu-1 exploration well in Block 40 at pre-salt

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OFFSHORE KWANZA AND BENGUELA BASINS E&P HISTORY



LICITAÇÃO DAS CONCESSÕES PETROLÍFERAS BIDDING OF OIL CONCESSIONS REPUBLICA DE ANGOLA



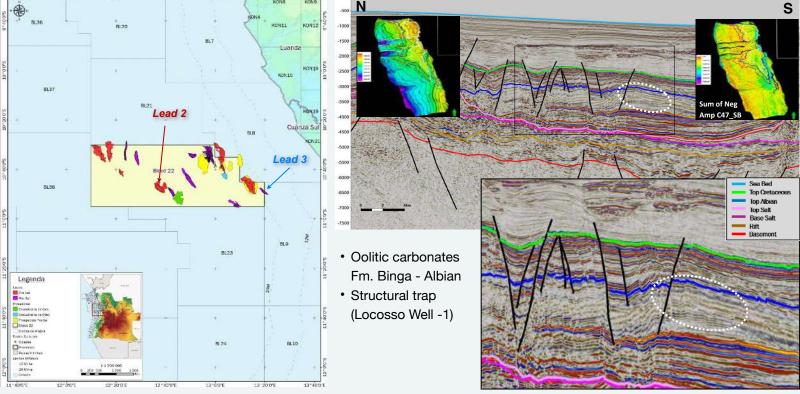
BLOCK 22 – PLAY CONCEPT

Technical Data Sheet

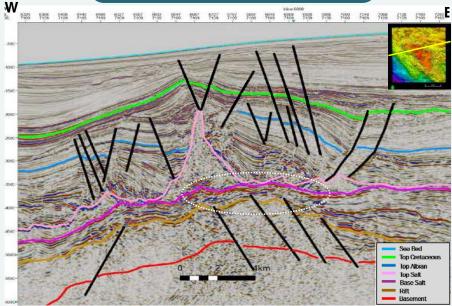
- Location: Offshore Kwanza Basin
- Area: 5 843 Km²
- Water depth: 955 2 500 m
- Potential Data Gravimetry: 50%
- Magnetometry: 100%

- Seismic: 2D ~ 2 087 Km & 3D: ~ 4 310 Km²
- Wells drilled: 3 exploration wells
- Exploration Opportunities (Oil and Gas)
- Pre-salt: 12 Leads
- Post-salt: 19 Leads

LEADS - JG(WS1, L3) - ALBIAN



LEAD - BA(WS3,L2) - PRE SALT/SAG



Microbiolite carbonates from the Fm. Cuvo - Sag /Pre- salt in a structural trap

WELLS RESULTS

LOCOSSO WELL-1

- API grade: 35
- Reservoir: Gross 109 m and 32.5 m of net pay (microbiolites and coquinas).

CATCHIMANHA WELL-1

- API grade: 35
- Reservoir: Porosity 11-15% and N/G of 90

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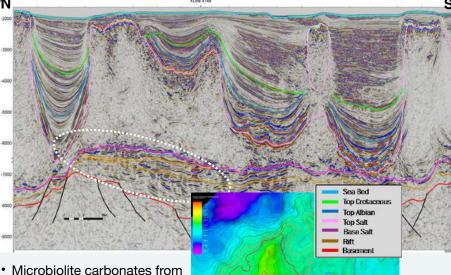


BLOCK 25 – PLAY CONCEPT

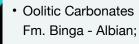
Technical Data Sheet

- · Location: Offshore Benguela Basin
- Area: 5 219.6 Km²
- Water depth: 700 2 500 m
- **Potential Data Gravimetry & Magnetometry 100%**
- Seismic: 2D ~ 2 827 Km & 3D: ~ 5 110 Km²
- Wells drilled: Leão-1, Jaguar-1, Pantera-1 and Puma-1 exploration wells
- **Exploration Opportunities** (Oil and Gas)
- Pre-salt: 9 Leads
- Post-salt: 13 Leads

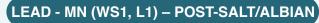
LEAD - EA (WS3, L5) - PRE-SALT/SAG

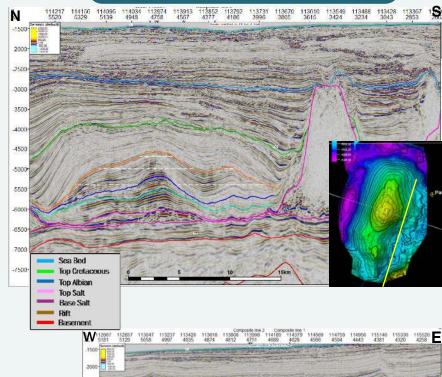


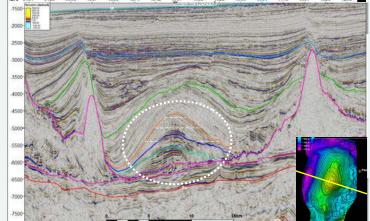
- Fm. Cuvo Sag / Pre-salt;
- Structural trap with four-way closure;



· Anticlinal structure with closure in four directions;







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BLOCK 26 – PLAY CONCEPT

Technical Data Sheet

13°C'0"E

- Location: Offshore Benguela Basin
- Area: 4 838 Km²
- Water depth: 800 3 000 m
- **Potential Data Gravimetry & Magnetometry 100%**

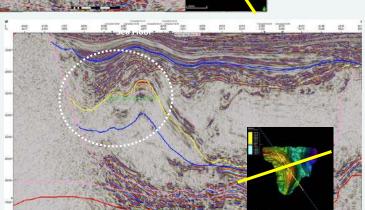
Seismic: 2D ~ 2 303 Km & 3D: ~ 3 220 Km²

- Wells drilled: 1 exploration well
- **Exploration Opportunities** (Oil and Gas)
- Post-salt: 3 Leads

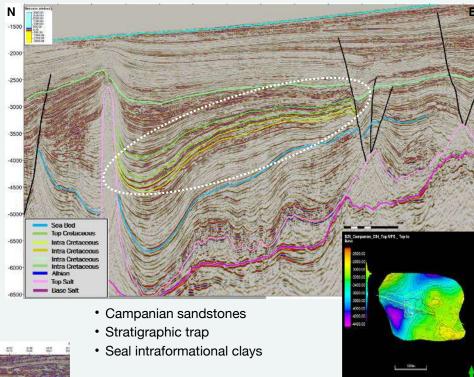
LEAD - FS(WS1, L1) - POST SALT/ALBIAN Nws s s s s s s s s s s s s s SE

Oolitic carbonates Fm. Binga

Structural trap with 4-way closure



LEAD - LC(WS3,L1) - POST-SALT/ CAMPANIAN



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BLOCK 38 – PLAY CONCEPT

Technical Data Sheet

Location: Offshore Kwanza Basin

Area: 6 300 Km²

Water depth: 1 200 - 2 500 m

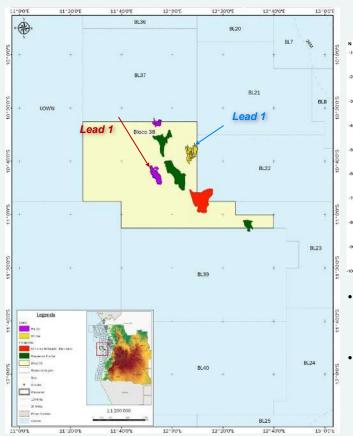
Potential Data Gravimetry 100% Magnetometry 100%

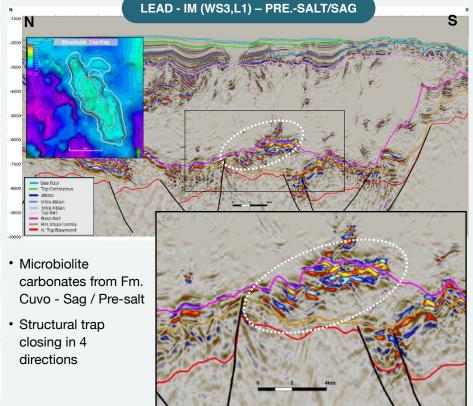
Seismic: 2D ~ 2628.44 Km & 3D: ~ 4904.12 Km²

Wells drilled: Jacaré-1 exploration well

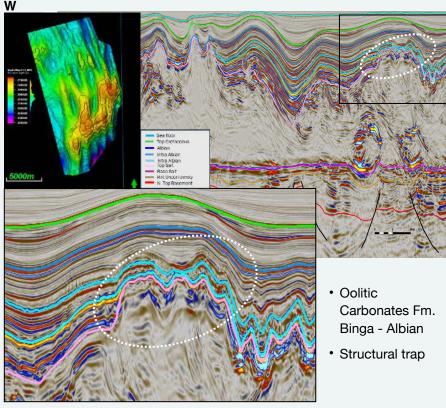
Exploration Opportunities (Oil and Gas)

Pre-salt: 2 Leads Post-salt: 2 Leads





LEAD - GB (WS2,L1) - POST-SALT/ALBIAN



WELL RESULTS

JACARÉ WELL-1

- Average porosity and permeability: 5% and 0.035mD.
- Source rock: TOC<1wt.% (5 877m to 6 216m)
- Presence of lacustrine organic matter / Type II and II/III kerogen
- Mature and post-mature Ro% and TAI.

Technical Data Sheet

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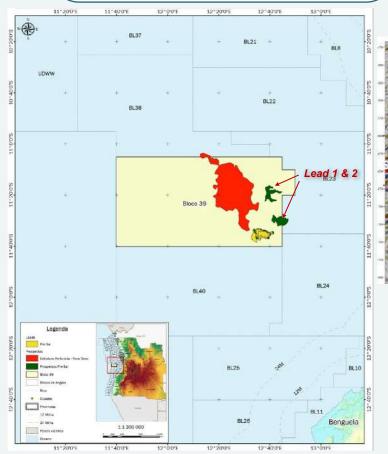
BLOCK 39 – PLAY CONCEPT

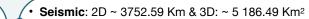
Area: 7 809 Km²

Water depth: 1 200 - 3 200 m

Location: Offshore Kwanza Basin

Potential Data Gravimetry & Magnetometry 100%





Wells drilled: Dilolo-1 exploration well

