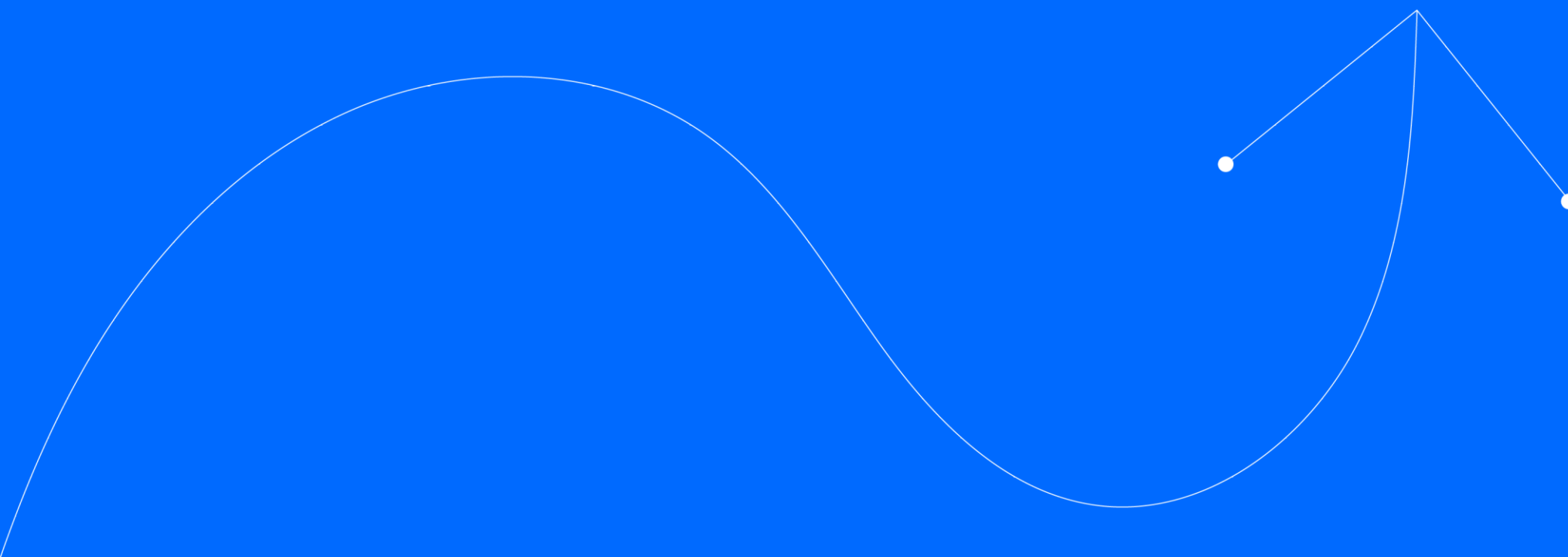
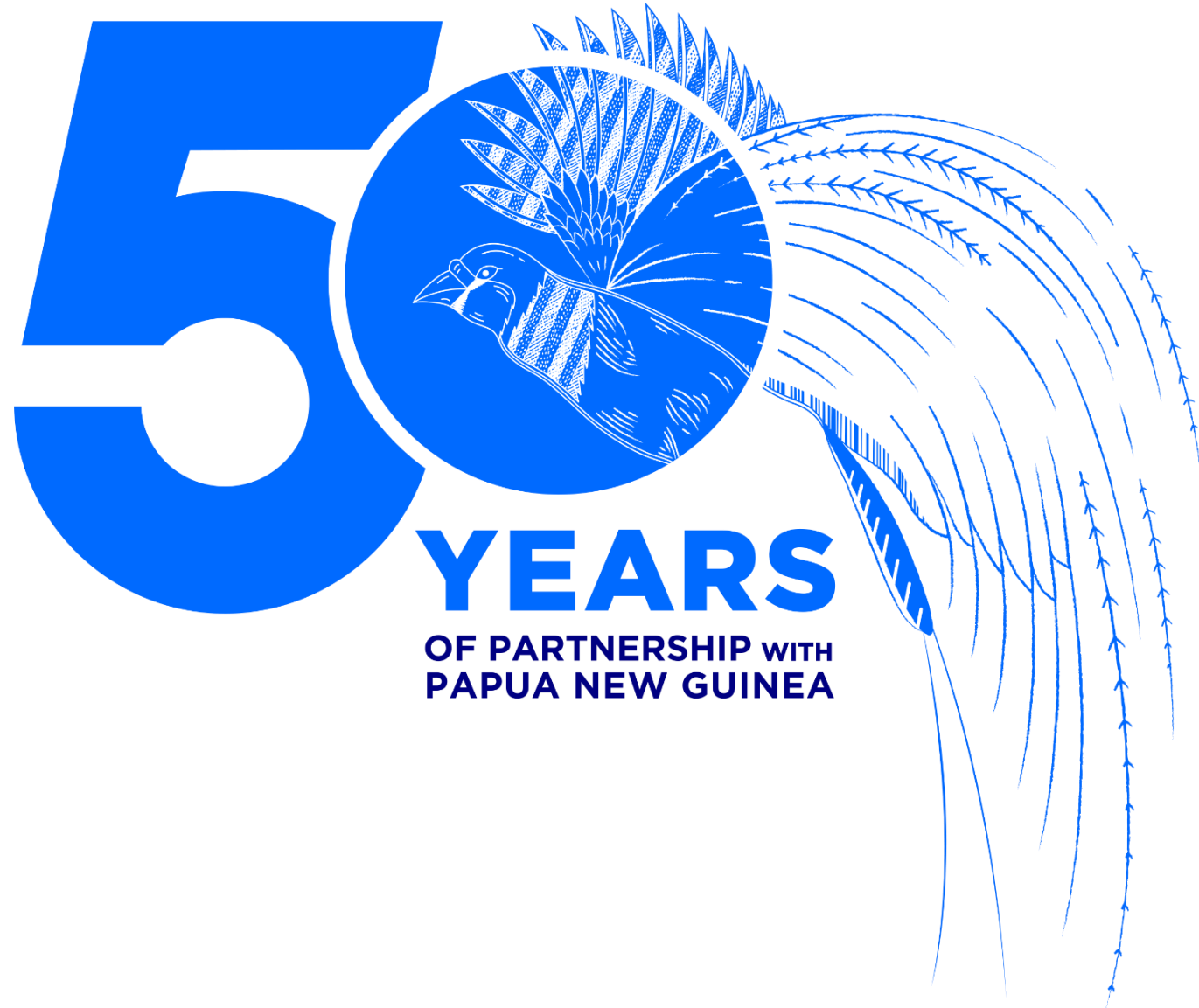


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PNG RESOURCES SUMMIT 2025

Leon Buskens, Country Chair PNG





SANTOS NATIONAL FOOTBALL STADIUM

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50 YEARS
OF PARTNERSHIP WITH
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PNG Operated Asset Overview

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Strong operated oil position, with material volumes of associated gas

Operated Facilities

Agogo Production Facility

- Online 1993
- Oil production
- Gas reinjection
- Agogo & Moran fields

Central Production Facility

- Online 1991
- Oil & Gas production
- Usano & Hedinia-lagifu fields

Gobe Production Facility

- Online 1998
- Oil & Gas production
- Gobe & SE Gobe fields

Kumul Marine Terminal

- Online 1992
- Liquids export

Santos Operated Assets



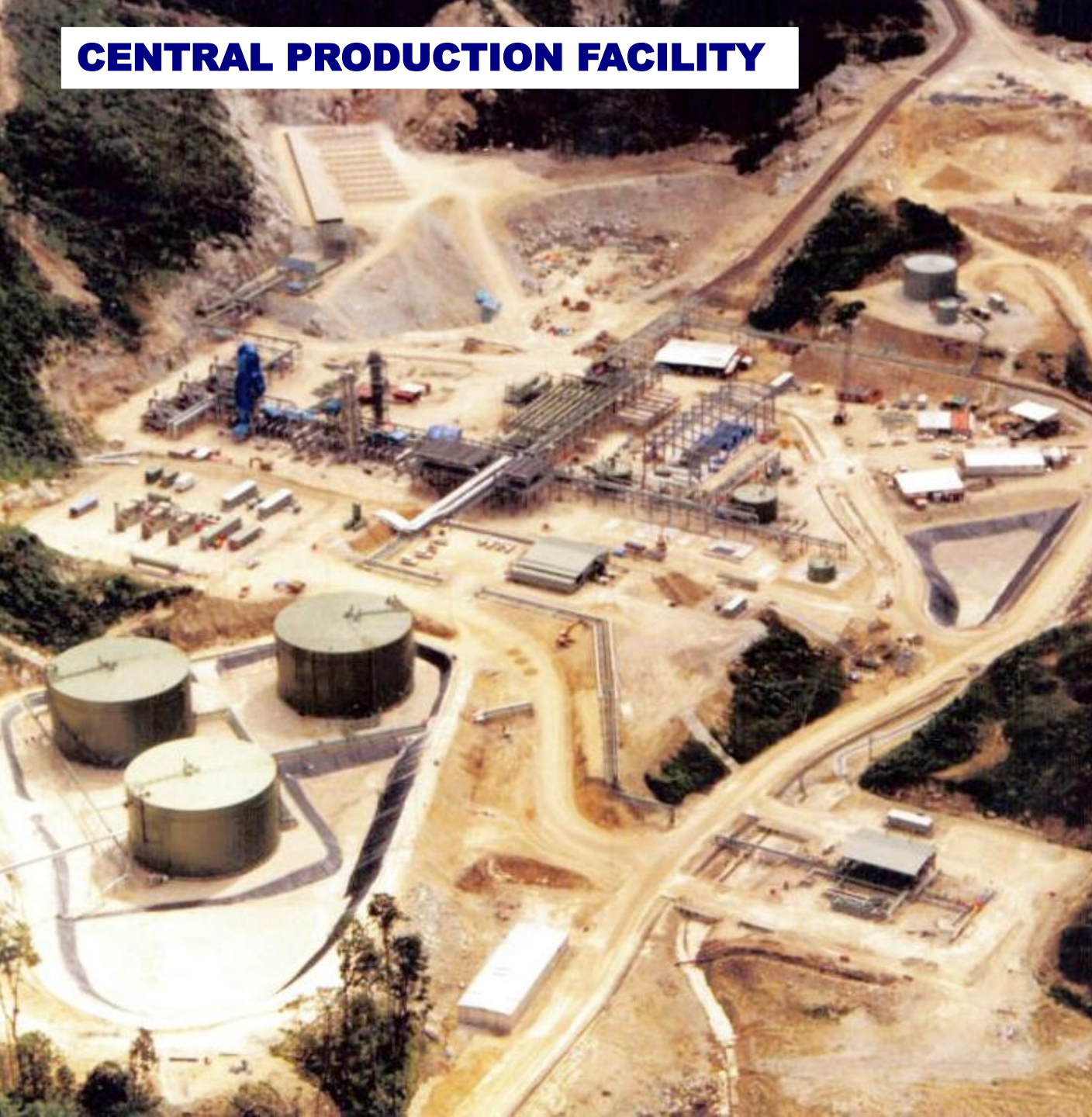
AGOGO PRODUCTION FACILITY



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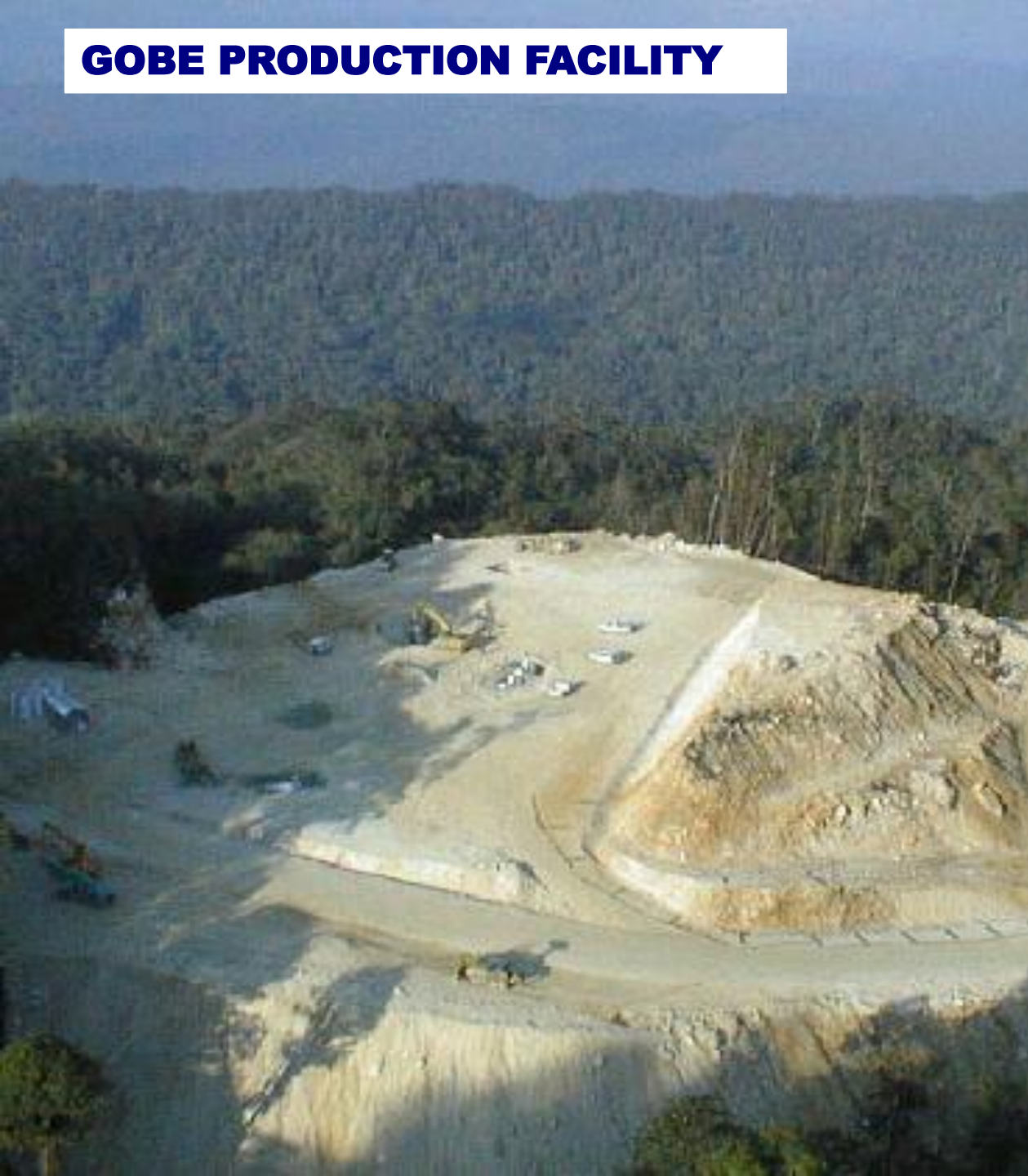
CENTRAL PRODUCTION FACILITY



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GOBE PRODUCTION FACILITY



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KUMUL MARINE TERMINAL



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KUTUBU MINI REFINERY



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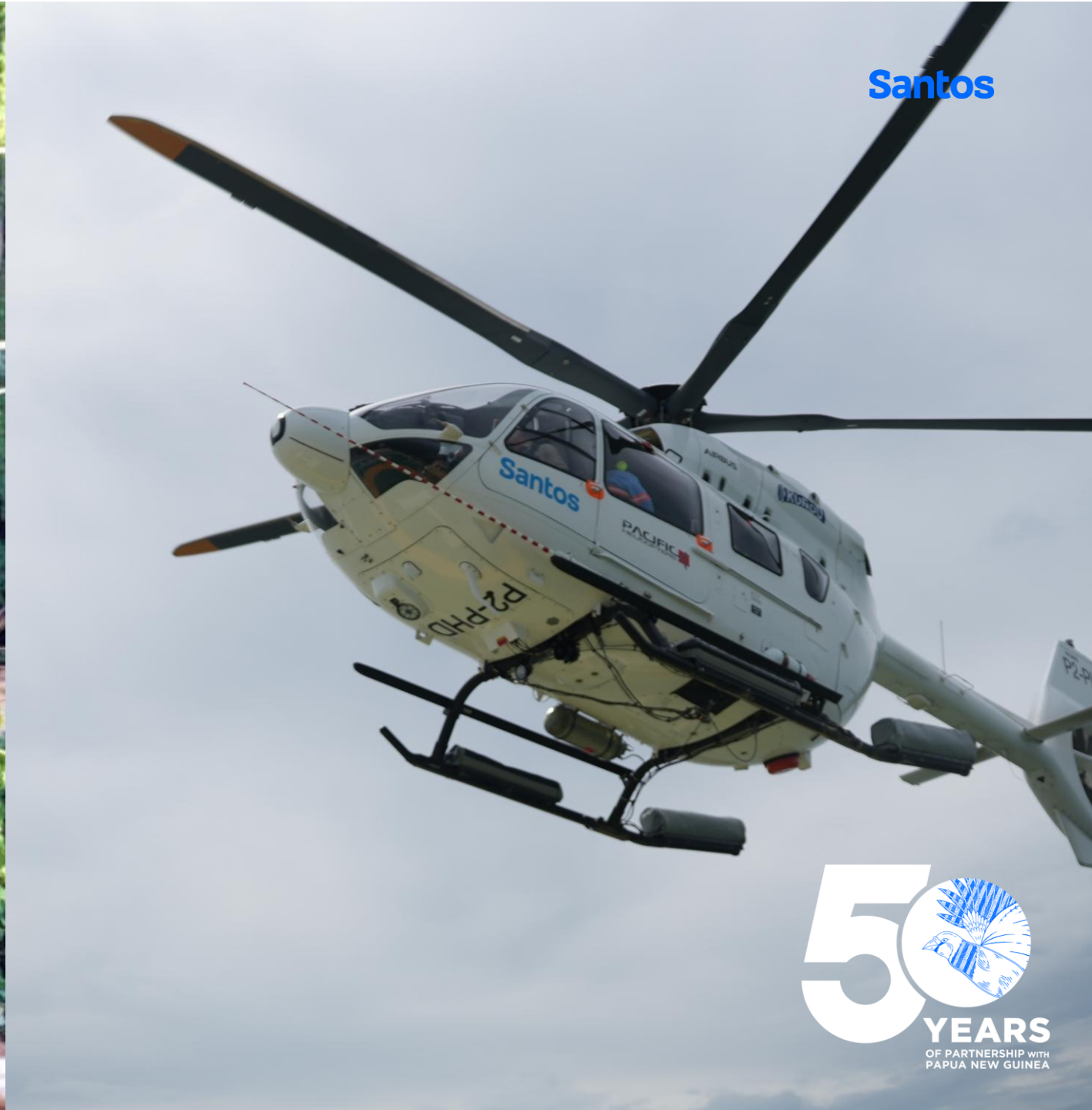
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LYDIA WARUBI

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WILLIE MAPAL

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THE LAUNCH OF THE SANTOS GLOBAL SUPPORT CENTRE IN 2024



SANTOS GLOBAL SUPPORT CENTRE GRADUATES

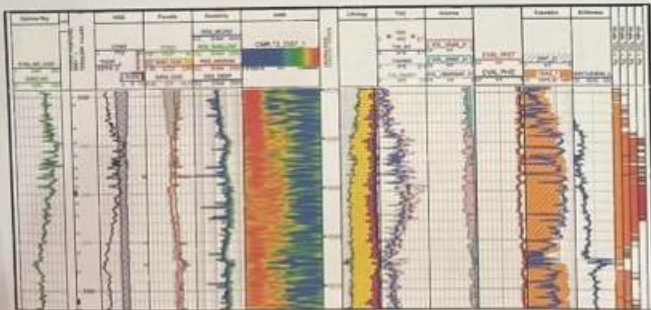
SHALE RESERVOIR CHARACTERISATION – A REVIEW ON LOG RESPONSES, ORGANIC GEOCHEMISTRY, AND PORE ANALYSIS

Santos
SD&CC
2025

Xiaoxiao Mao, Joshua Kidu, Ratno Harnondo, Matthew Dubsky
Petrophysics, Subsurface Operations

Shale gas represents one of the most promising unconventional energy resources. Evaluating its reservoir potential requires a comprehensive understanding of log responses, organic geochemistry, and pore structure. Well logs can reveal key reservoir features such as organic richness, porosity, and water saturation, which are assessed through petrophysical models. Log-based geochemical modelling also supports regional-scale volumetric assessments. Core-based geochemical analysis provides critical insights into hydrocarbon generation potential, while pore structure analysis sheds light on gas storage capacity and migration pathways. Integrating these multidisciplinary datasets enables a more accurate estimation of the total shale gas resource.

LOG RESPONSES

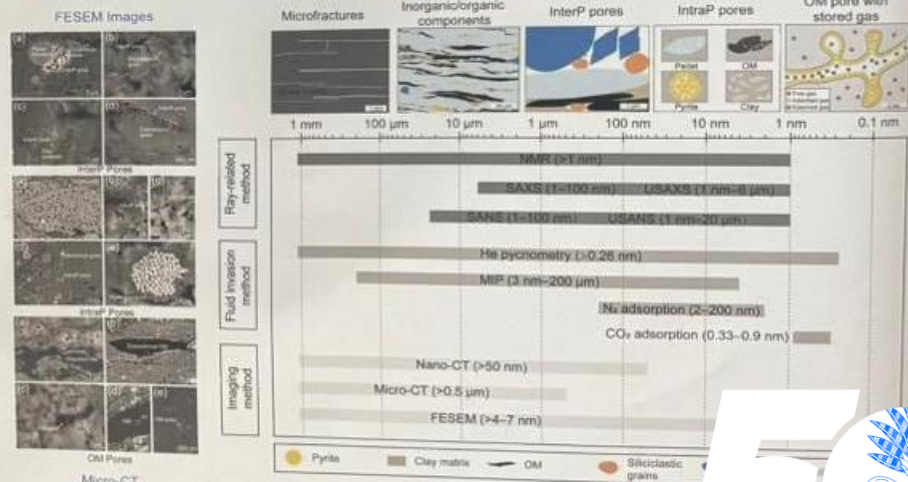


Gas shale log features: Increased GR (U); Reduced NPHI, RHOB; Increased resistivity, NMR response
Log interpretation: PHIT, PHIE (Multimin); Sw (Archie); TOC (Passey's ΔLogR)

ORGANIC GEOCHEMISTRY



PORE ANALYSIS



Pore analysis offers insights into pore morphology, pore types, porosity, pore connectivity, and surface area. In shales, pores are commonly classified into interparticle (InterP), organic matter (OM) pores, and fractures. Due to the complexity of shale pore systems, accurate characterization requires a range of techniques typically categorized into imaging, ray-based, and fluid-injection methods. A common methodological combination includes SEM, MIP, and He pycnometry. These methods offer both qualitative descriptions and quantitative measurement coverage.

BUSINESS IMPACTS



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KUMUL MARINE TERMINAL



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