



# BHP Billiton Petroleum

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Analysts Tour 2008

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# Agenda

Overview of BHP Billiton Petroleum

Petroleum in Australia

Projects & Opportunities

Exploration

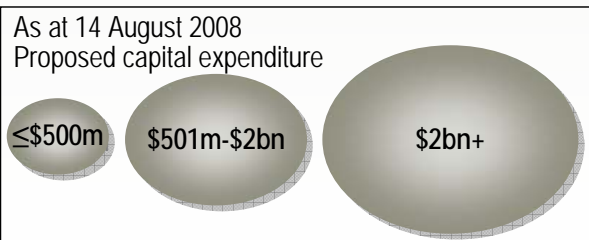
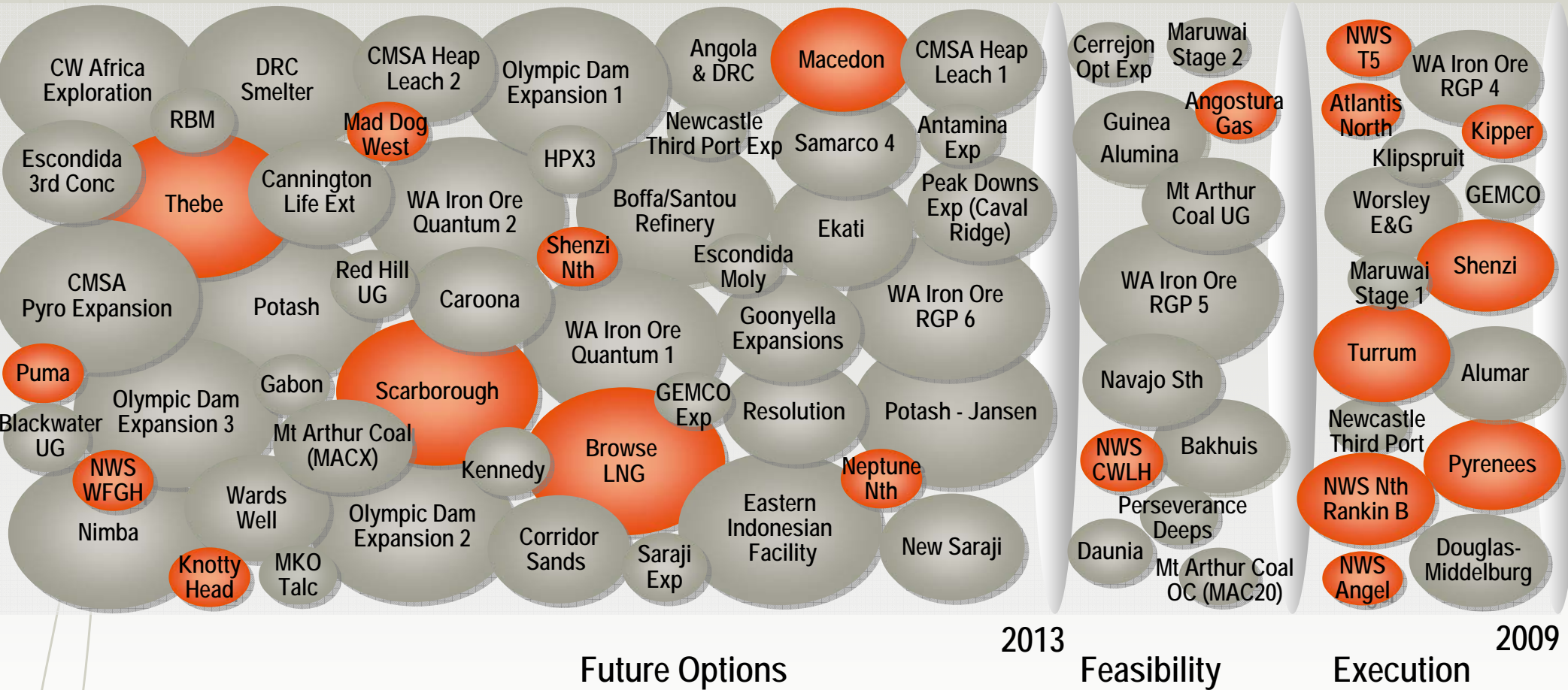
# Overview of BHP Billiton Petroleum

- A significant oil and gas exploration and production business
- Large and diverse portfolio of operating assets, development opportunities and exploration permits
  - Operations in six countries
  - Currently exploring in nine countries
  - Seven development projects currently in execution and numerous future projects in preparation
- A key component of BHP Billiton for almost 40 years
- Significance within BHP Billiton evident in the recent FY08 financials
  - 22% of total underlying EBIT
  - 27% of total capital expenditure
  - 67.5% EBIT margin (highest within BHP Billiton)
- Volume Growth of 13% in FY08 over FY07 – 318 kboed to 353 kboed

# Global operational focus



# Maintenance of a deep diversified inventory of growth options



# Our core strategy and competitive advantages

- The core strategy
  - Large, long-life upstream assets with multiple options – that we operate
  - Target organic growth opportunities that are material to BHP Billiton
  - Balanced proven plays and frontier exploration
  - Functional organisational model to achieve top quartile performance
- Our competitive advantages
  - Balance sheet strength of a super major, with the energy of a start-up
  - Able to compete technically with super majors in chosen locations
  - Industry leading geoscience imaging technology in deepwater subsalt
  - Trusted and dynamic partner
  - Speed of decisions versus competitors

# Agenda

Overview of BHP Billiton Petroleum

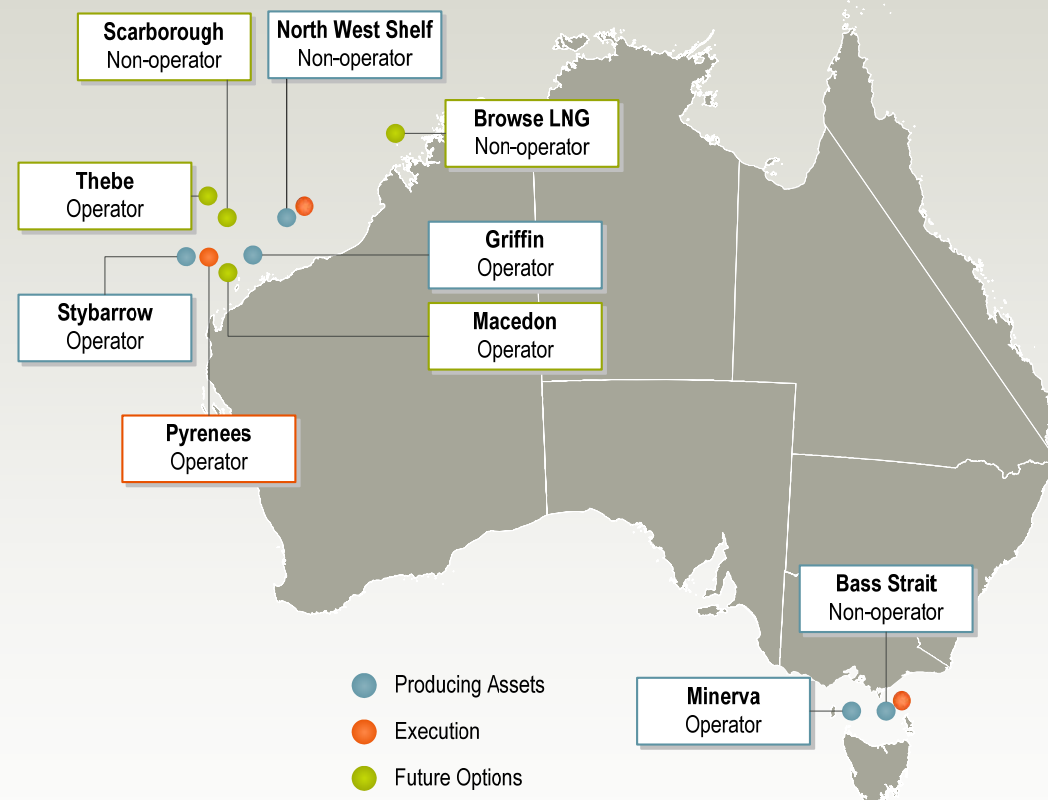
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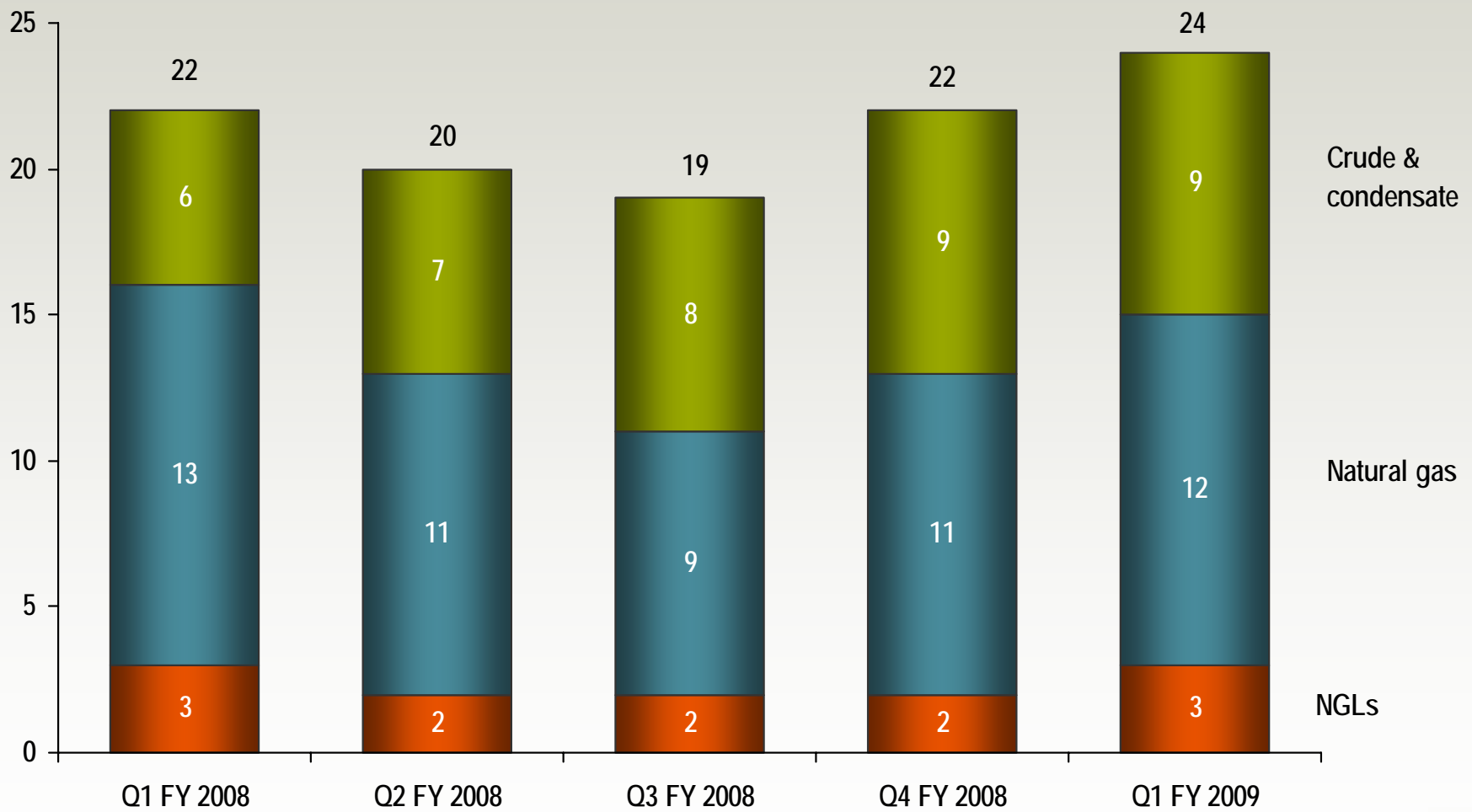
# Australia - A key contributor to growth

- Australia's largest oil and gas producer (Operated and Non-operated assets)
- Petroleum's largest contributing assets based in Australia
- Five major projects delivered since 2001
- Outstanding growth options located in Australia
- Five major projects in execution or feasibility
- Five major projects under assessment in future options



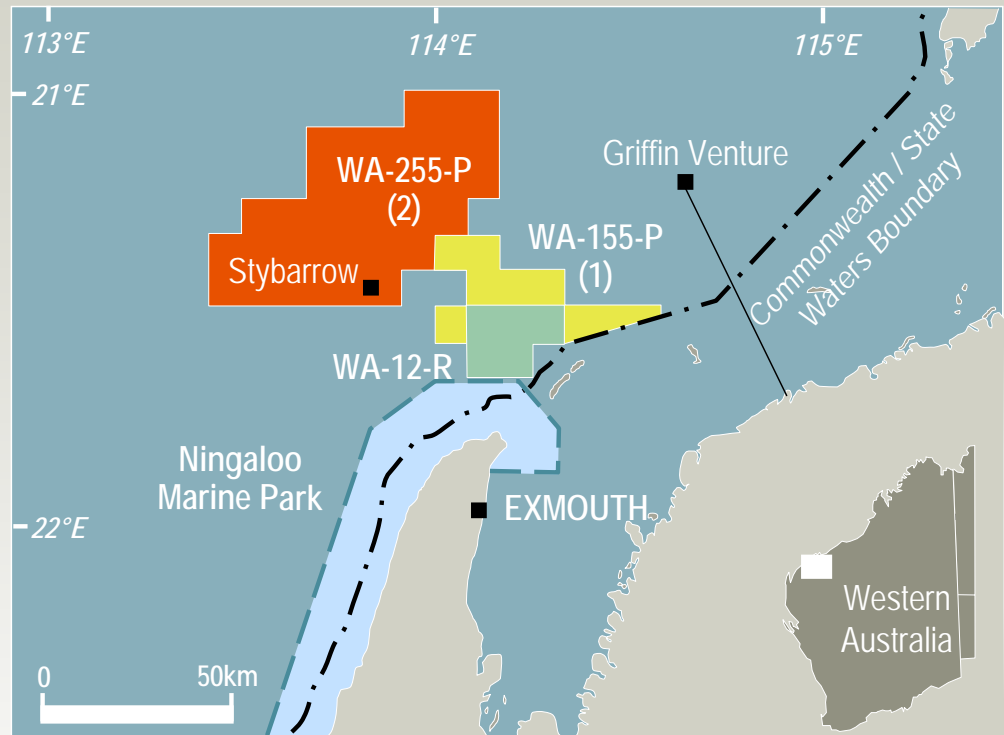
# Australia production profile

Production  
(mmboe)



# Operated Assets

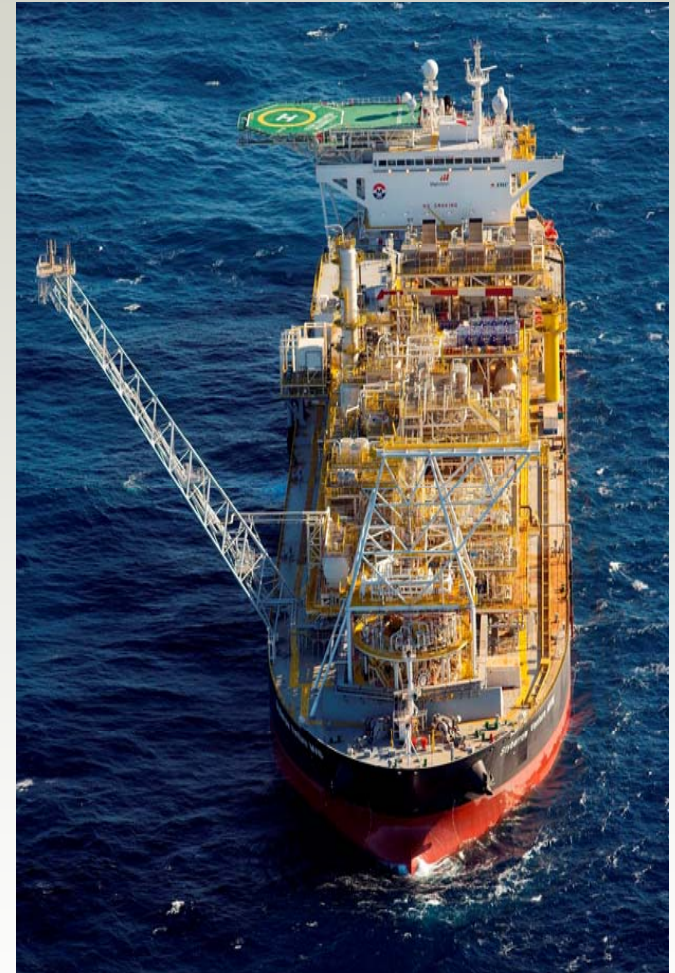
- Moving to operated assets
- Successful delivery of Stybarrow
- Sanction of Pyrenees
- Portfolio of steady performers
- Continued focus on Exmouth sub-basin prospectivity
- Assessing value enhancing opportunities



Stybarrow and Griffin Developments, WA

# Stybarrow, Western Australia

- BHP Billiton (Operator, 50%)
- Start-up ahead of schedule – November 2007
- Cost approximately US\$760 million (net approximately US\$380 million)
- Producing 80,000 bbl/day (gross)– at capacity – produced more than 10 mboe to date (net)
- Australia's deepest offshore facility - water depth approximately 825 metres
- Estimated economic field life 10 years
- Future infill drilling opportunities



Stybarrow Venture FPSO

# Minerva, Victoria

- BHP Billiton (Operator, 90%)
- Gas and condensate producing approximately 93.5 TJ\ld and approximately 252 bpd condensate
- First production January 2005
- Two subsea wells, onshore gas plant
- Max gross sales gas production rate: 150 TJ\ld
- Evaluating front-end compression



# Griffin, Western Australia

- BHP Billiton (Operator, 45%)
- Commenced production in January 1994
- Gas exported to shore via pipeline
- Water depth 130 metres
- Currently producing approximately 5,500 boe/d
- Field life 2013+



Griffin Venture FPSO

# Non-operated assets

- North West Shelf Project and Bass Strait are world class assets and material to Petroleum's business

## North West Shelf Project

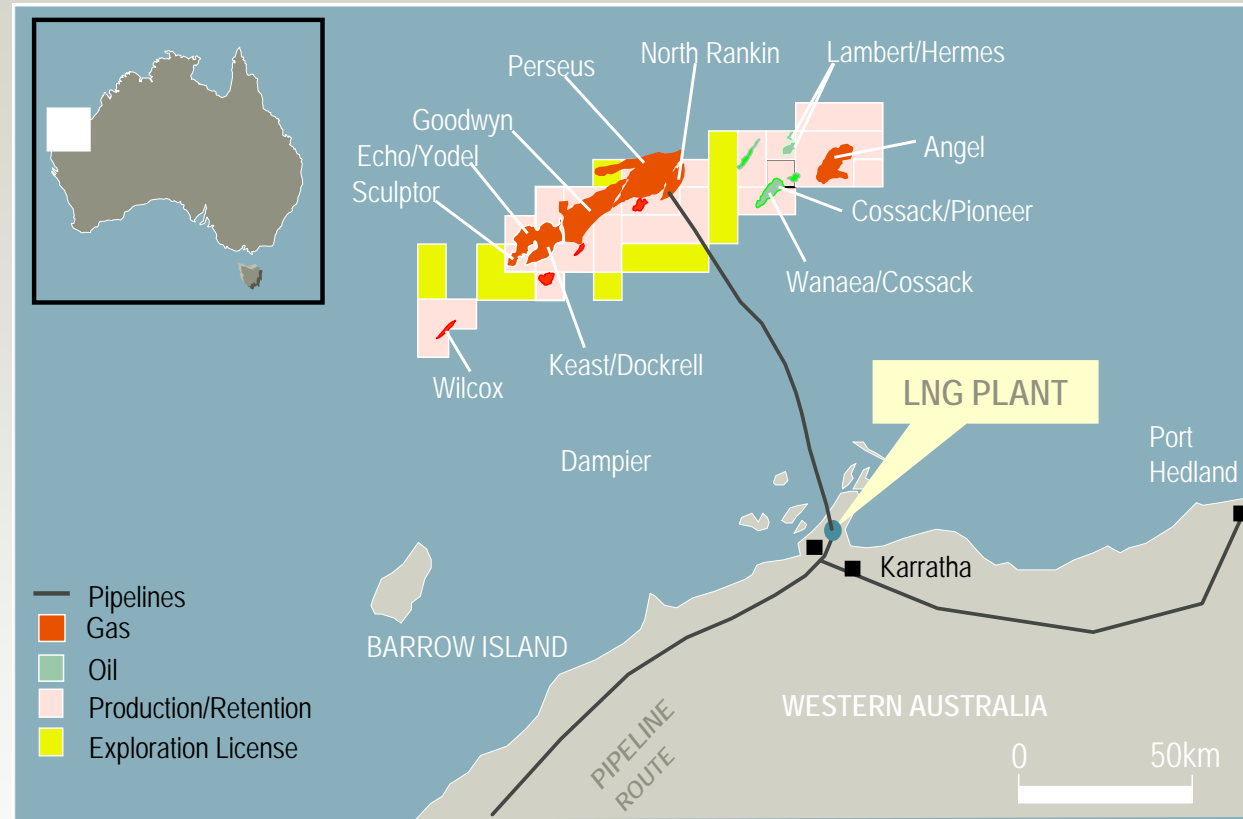
- Currently Australia's largest gas producer
- Increasing production – Train 5, Angel

## Bass Strait

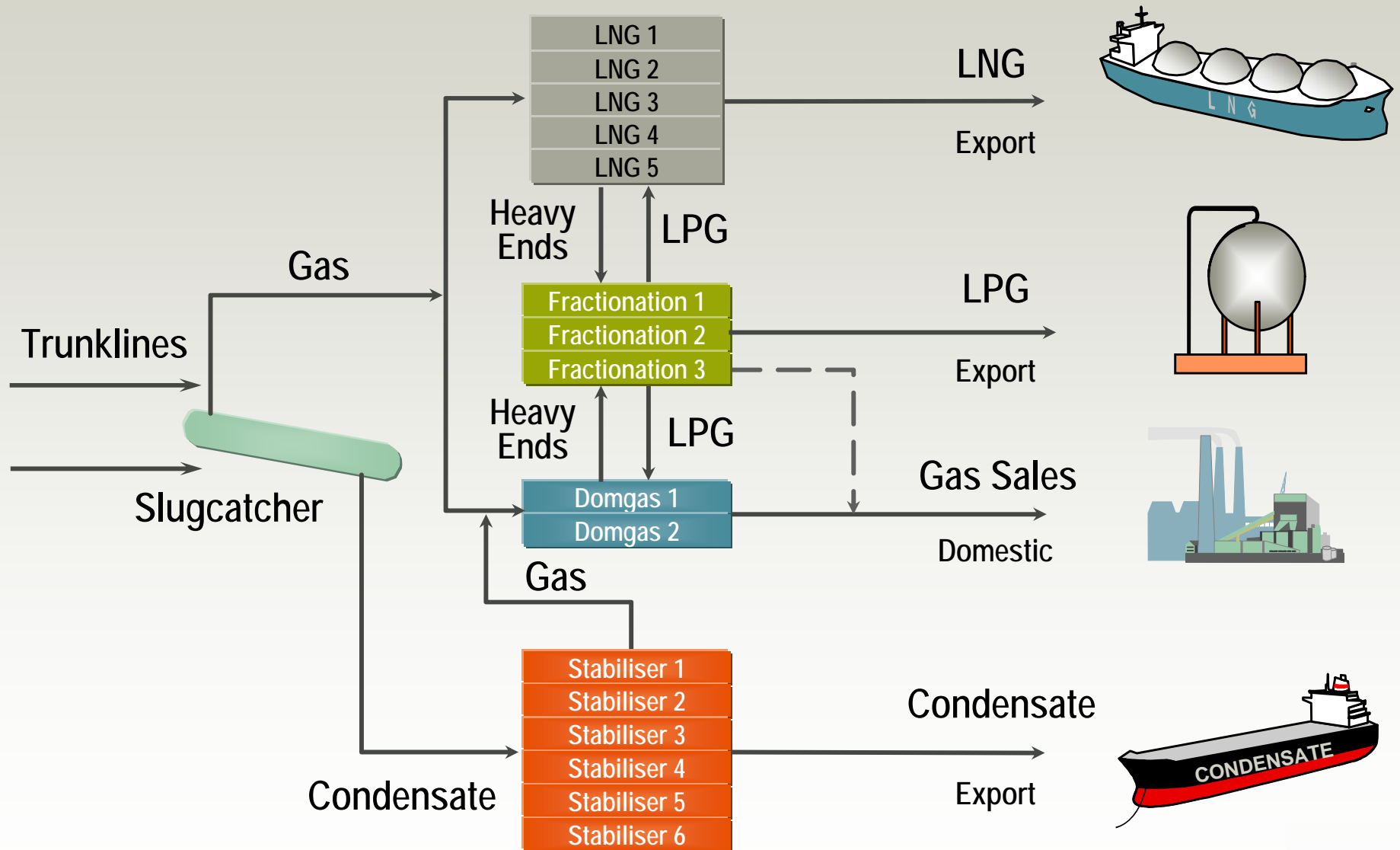
- Supplies gas to SE Australia
- Additional expansion projects underway

# North West Shelf Project, Western Australia

- Australia's largest resource project
- Gas supplies to the WA market
- LNG exported to Japan, China and Korea
- Crude oil, condensate and LPG also produced and exported by the North West Shelf Venture
- BHP Billiton (Non-operator, ~16.7%)



# North West Shelf Project - Scope



# North West Shelf Project – Train 5 LNG Expansion

- Train 5 production capacity  
4.4 mtpa (100%)
- Capital cost BHP Billiton share  
approximately US\$350 million
- Total system capacity  
(Trains 1-5) expected to be  
~16.3 mtpa (100%)
- First LNG production from Train 5  
delivered ahead of project schedule –  
1 September 2008



# North West Shelf Project - Angel

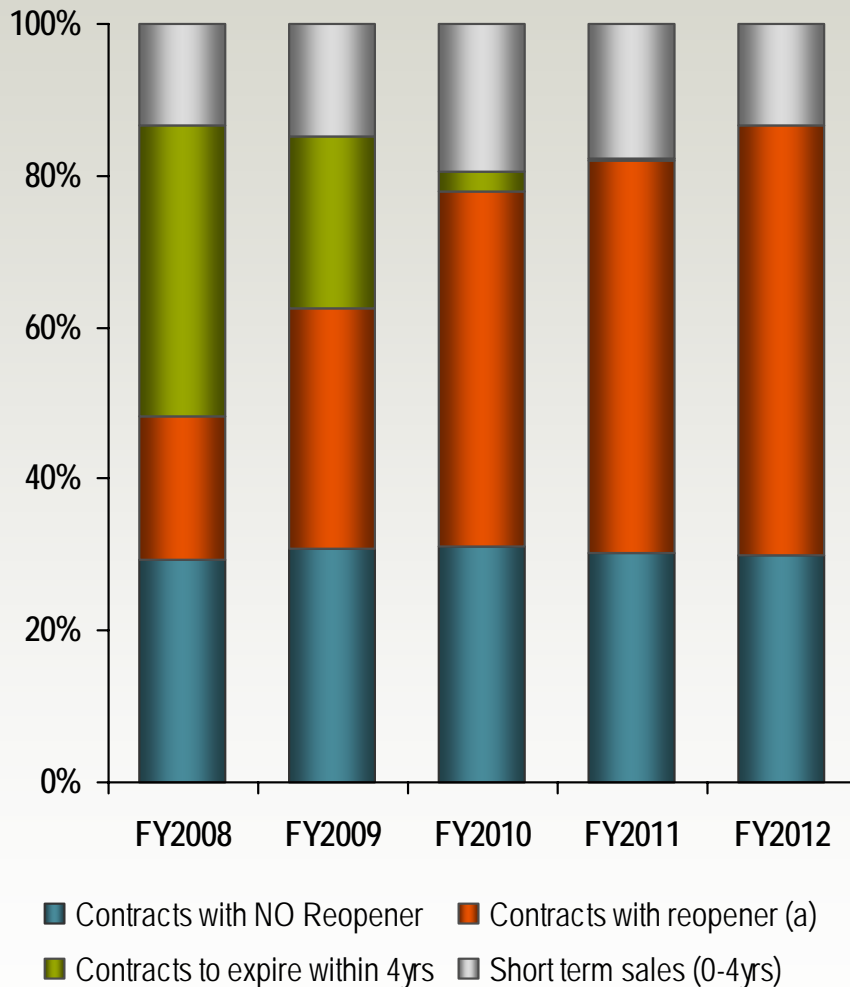
- On-line 3 October 2008
- Capital cost BHP Billiton share approximately US\$200 million
- Delivered ahead of schedule and within budget
- Will boost offshore production capacity to underpin LNG sales going forward
- Produces up to 800 mscf of gas a day and 50,000 barrels of condensate a day (100%)



# By 2012, ~60% of gas and LNG production contracts are expected to have price reopener mechanisms available

## BHP Billiton Gas and LNG contracts pricing structure

(%)



- Most current long-term gas contracts contain regular price reopeners
- Old gas contracts were negotiated at lower prevailing energy prices
- Market trend has been for term LNG pricing to link more closely with crude
- Short term LNG sales have been robust prices reflecting strong demand and value of LNG

Notes:

(a) Includes pricing structures closely linked to uncapped market indices

# LNG Market Development

- With Train 5 recently operational, North West Shelf Venture expected to produce additional cargoes above contracted
- LNG demand in Asia region has been strong, driven by growth in emerging markets, oil displacement, nuclear outages and environmental issues
- Underlying demand growth likely to remain strong, though near term volatility likely
- In near term, new/expanded regional production expected to back-out supply from further afield
- Longer term, Australian greenfield supply required, projects likely to face challenging financial and regulatory environment

# Bass Strait Overview Gippsland Basin JV & Kipper Unit JV Infrastructure



Producing Oil & Gas for almost 40 years to date and still for another 30 years to come

# Bass Strait Production

(FY08, Gross 100% Basis) (50% working interest)

Product	Quantity	Revenue
Crude & Condensate	~ 72,000 bbl/d	60%
Domestic Gas	~ 755 TJ/d (~ 700 MMscf/d, ~ 115,000 boe/d)	20%
Butane	~ 1,175 tonnes/d (~ 13,000 bbl/d)	8%
Propane	~ 1,560 tonnes/d (~ 20,000 bbl/d)	10%
Ethane	~ 630 tonnes/d (~ 11,000 bbl/d)	2%



# Eastern Australia Gas

- BHP Billiton supplies gas to Eastern Australia from Bass Strait and Minerva gas fields
- Bass Strait directly supplies gas under long term contracts to three markets
  - Victoria via the Principal Transmission System
  - Tasmania via the Tasmanian Gas Pipeline
  - NSW via the Eastern Gas Pipeline
- Minerva supplies gas to Victoria and South Australia



# Agenda

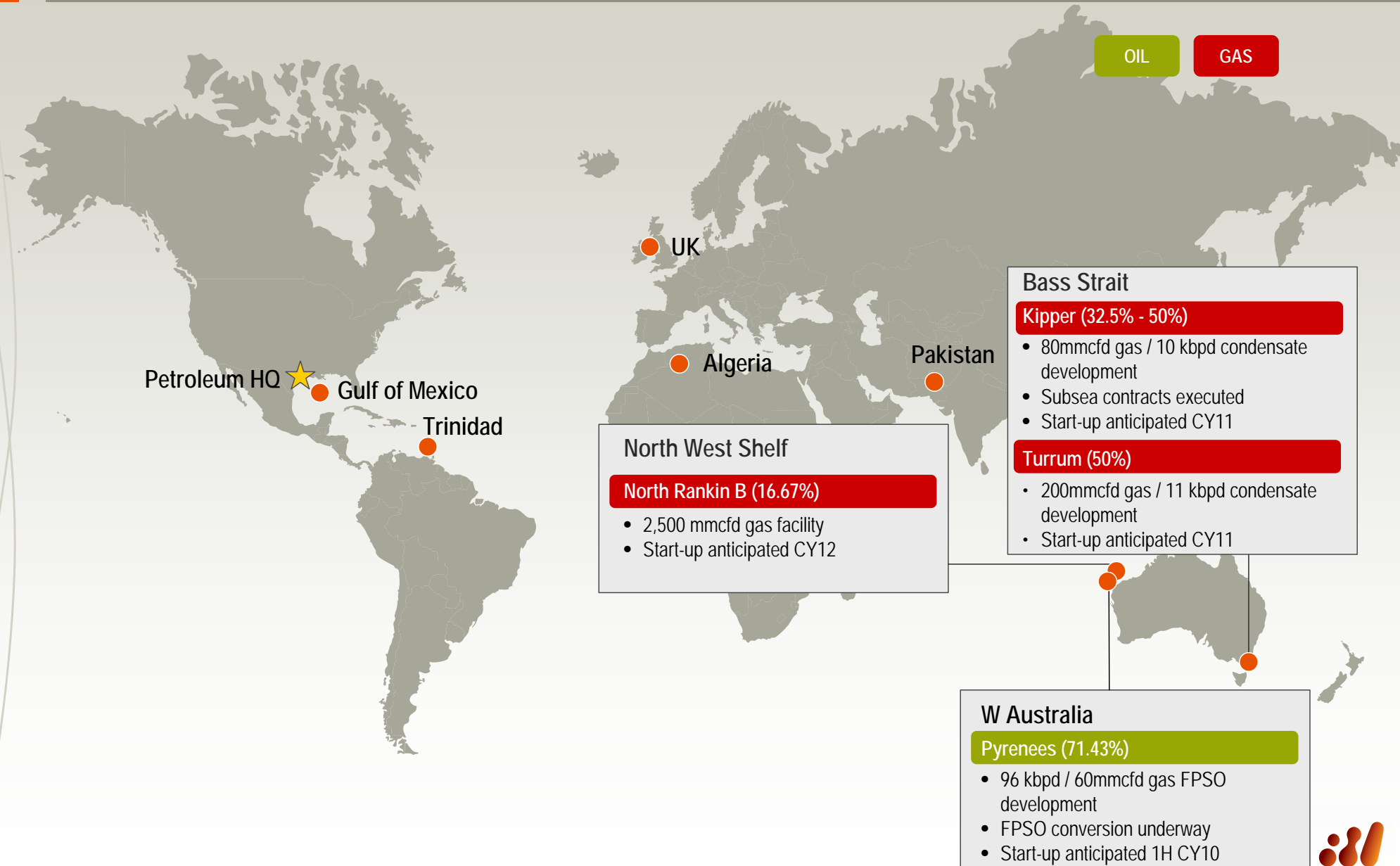
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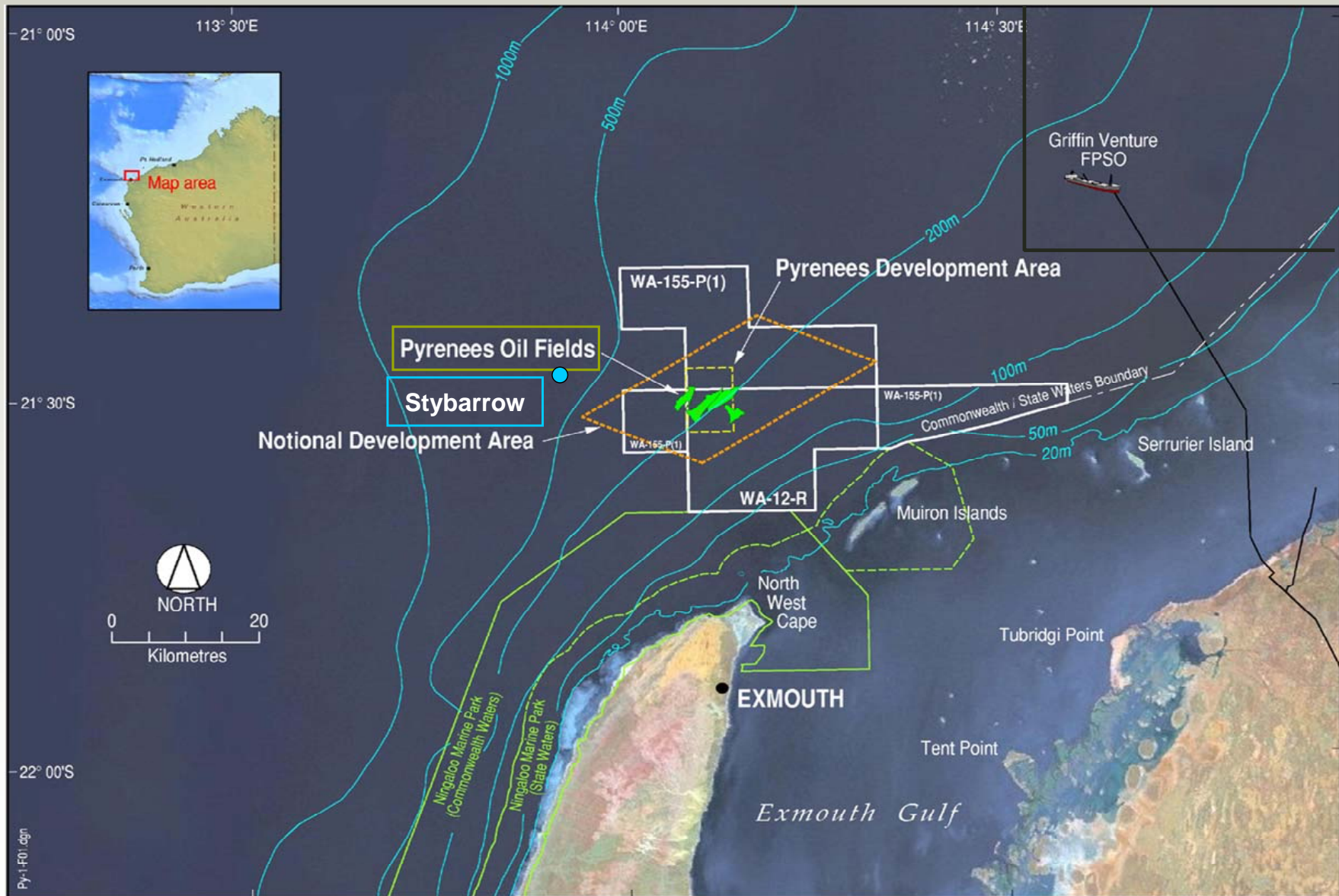
Exploration

# Australian projects in execution



Note: All production rates on a gross production basis

# Pyrenees Project, Western Australia



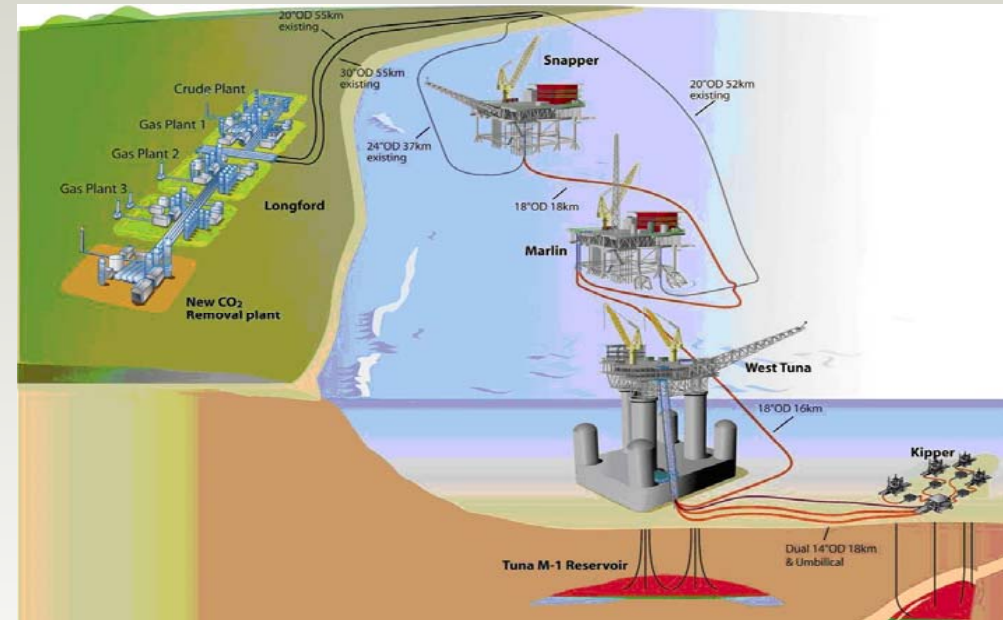
# Pyrenees Project, Western Australia

- BHP Billiton (Operator, 71.43%)
- Sanctioned July 2007
- Project costs approximately US\$1.7 billion (BHP Billiton share approximately US\$1.2 billion)
- Double hulled
- 96,000 barrels of oil processing capacity
- Water depth 170 -250 metres
- Estimated economic field life 25 years
- Target for first oil 1H CY10



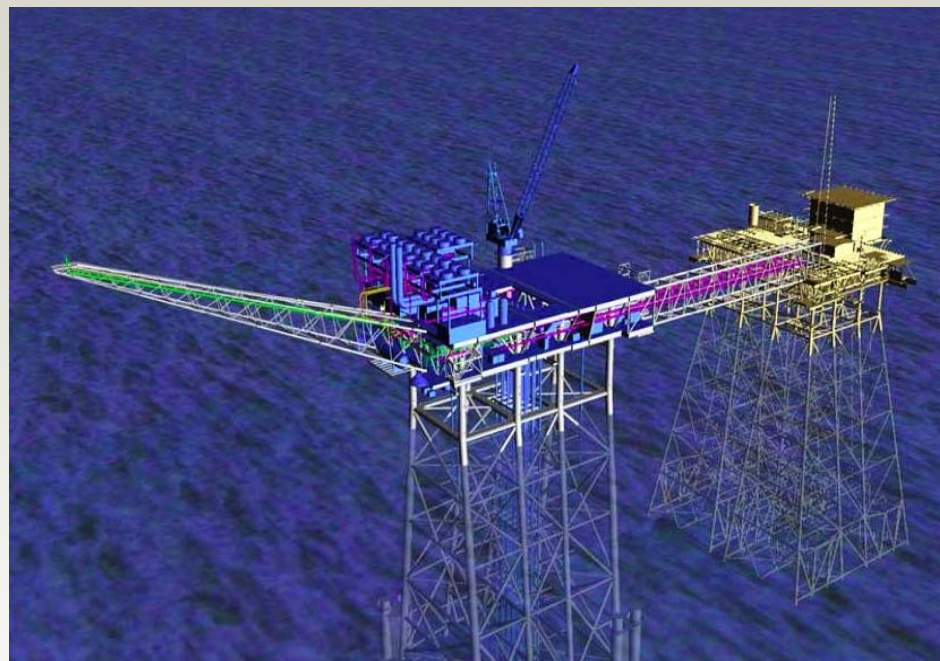
# Bass Strait - Kipper (32.5% working interest, non-operated)

- BHP Billiton share approximately US\$500 million
- Subsea tie-back
- 10,000 bpd condensate (100%)
- Processing capacity 80mmcfd gas (100%)
- Line pipe delivered, engineering and procurement progressing
- Water depth approximately 100 metres
- Start-up expected CY11



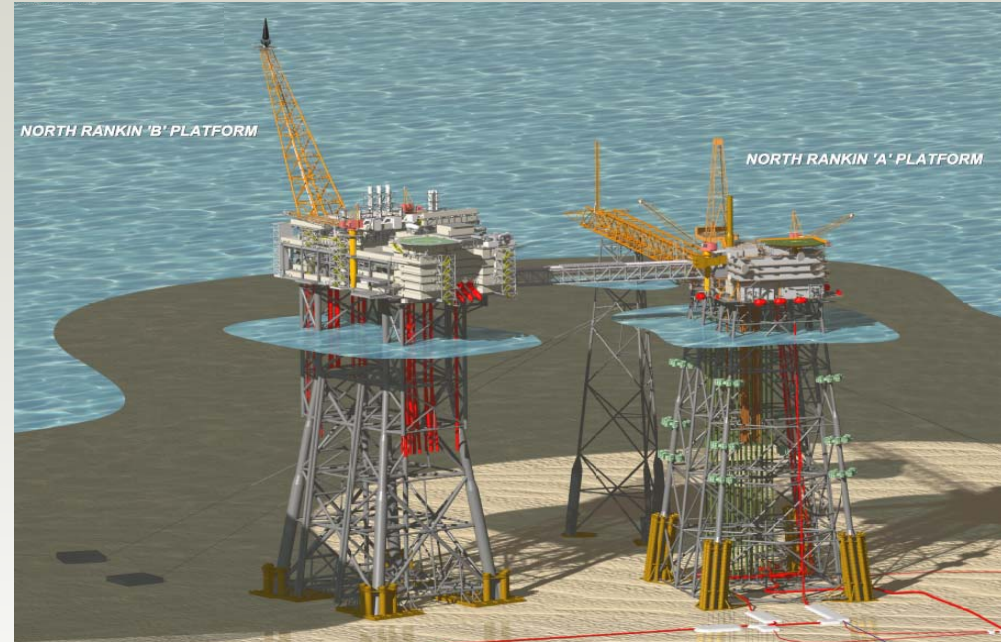
# Bass Strait - Turrum (50% working interest, non-operated)

- BHP Billiton share approximately US\$625 million
- New platform Marlin B linked by new bridge to existing Marlin A platform
- Gas sales expected to commence in 2015 at approximately 200 mmcfd (100%)
- 11,000 bpd condensate (100%)
- Full field development expected to recover approximately 1 trillion cubic feet (tcf) natural gas and 110 million barrels of oil and gas liquids (100%)
- Currently in execution
- Start-up expected CY11

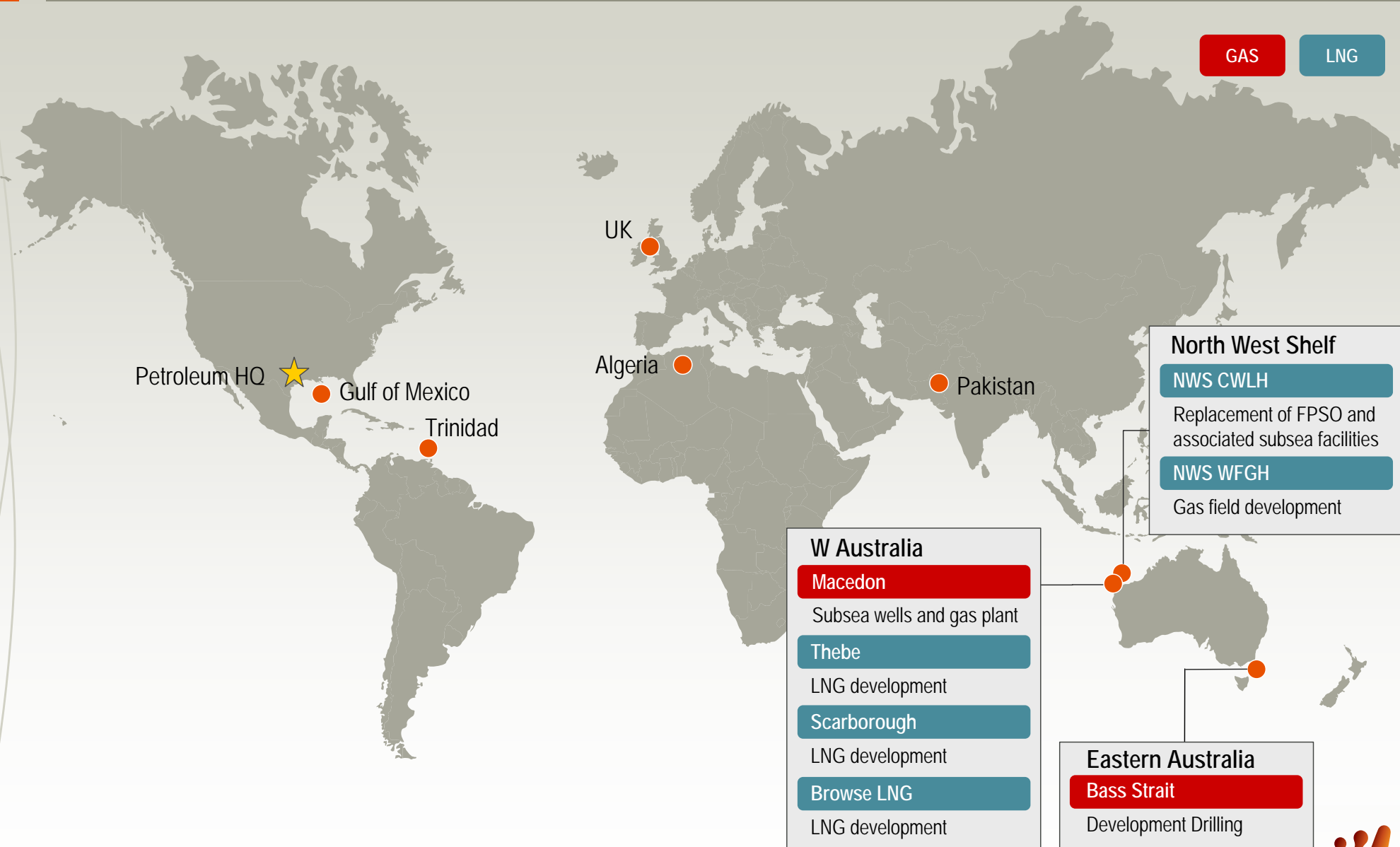


# North West Shelf Project - North Rankin B

- BHP Billiton share approximately US\$850 million
- NRB designed to recover remaining lower pressure gas from the North Rankin and Perseus gas fields
- New gas compression gas platform connected by 100 metre bridge to existing North Rankin A platform
- 2,500 mmcfd gas production (100%)
- Detailed engineering and procurement progressing
- Start-up expected CY12

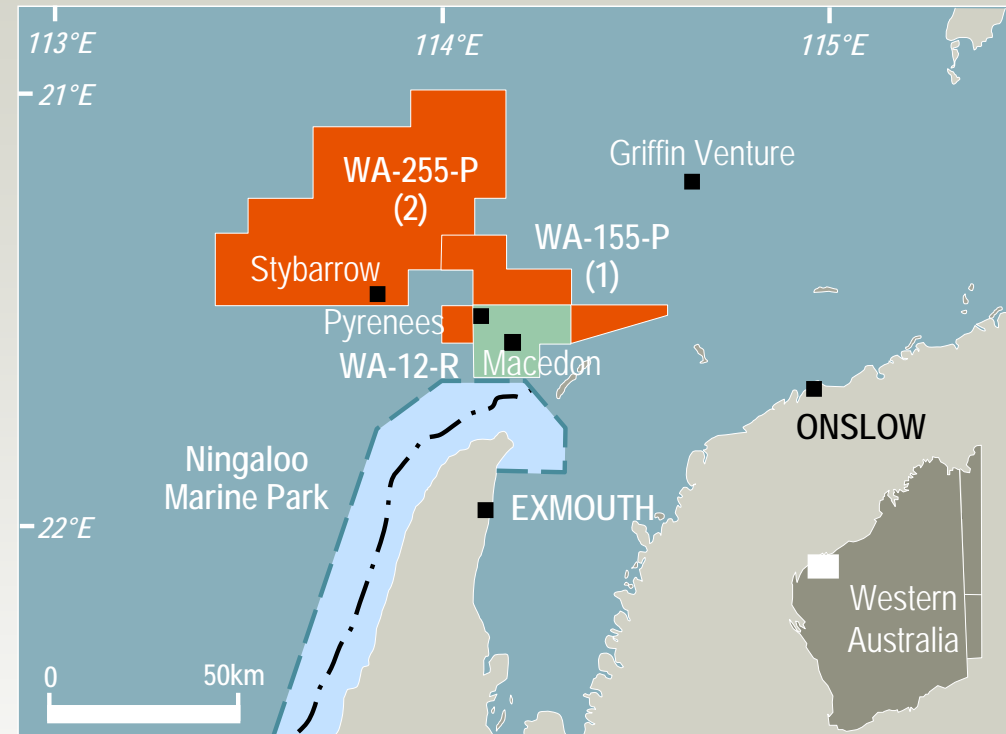


# Australian projects – pre-execution



# Gas Development - Macedon, Western Australia

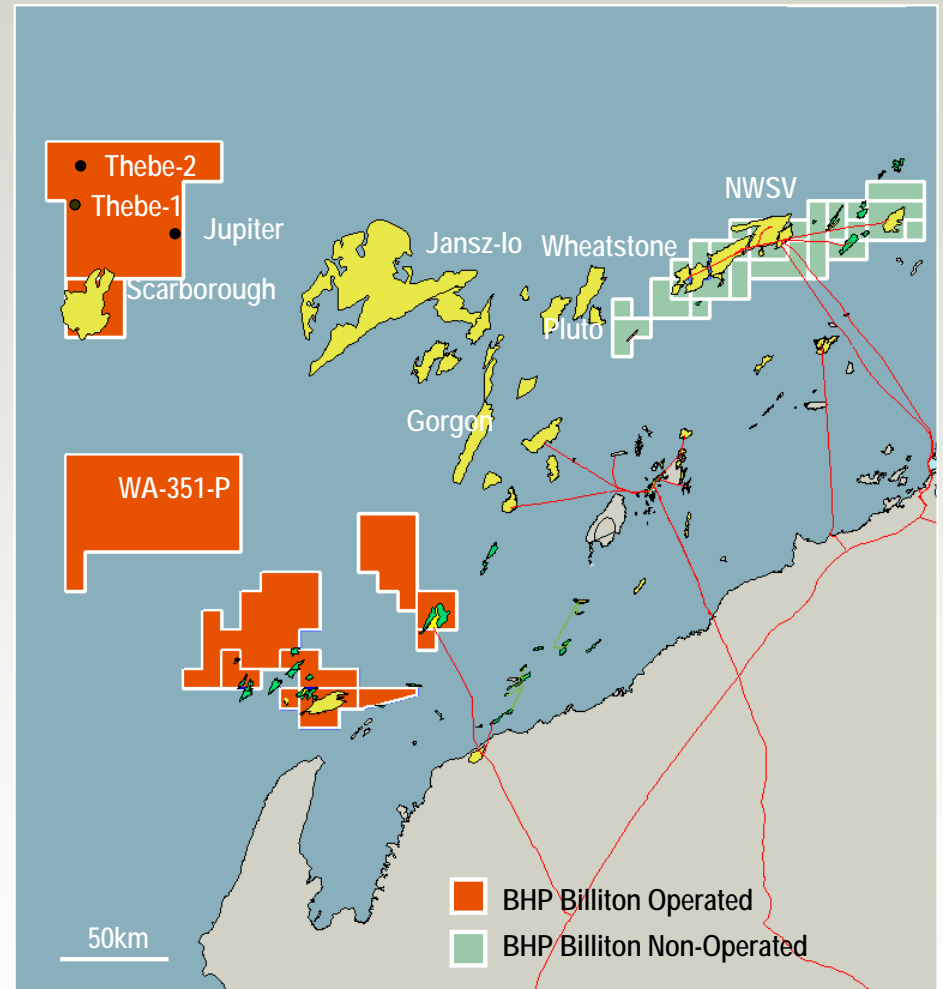
- BHP Billiton (Operator, 71.43%, Apache 28.57%)
- Shallow gas development in Western Australia, retention lease WA-12R
- Gas is very lean with predominant methane content (~94% methane, ~5% nitrogen)
- Water depth 180 metres, reservoir depth ~1000 metres
- Approximately 10 km from Pyrenees (BHP Billiton, Operator) Oil Field Development



Macedon Development, WA

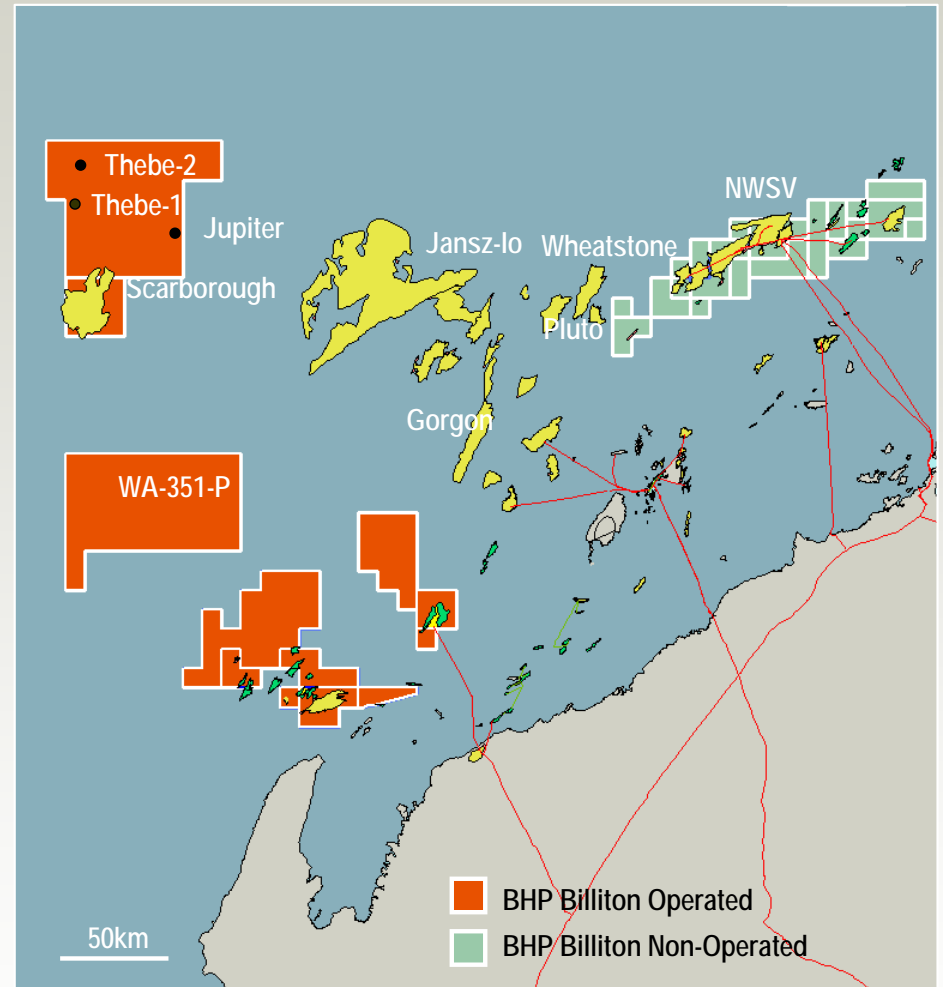
# Gas Development - Scarborough, Western Australia

- Initial gas supply will be from Scarborough ~8 tcf (BHP Billiton 50%, ExxonMobil 50% - operator)
- Other BHP Billiton owned gas in the vicinity includes Thebe and Jupiter + exploration potential
- ExxonMobil and BHP Billiton discussing optimum development plans for Scarborough
- No liquids (95% methane, carbon dioxide < 1%)
- Target market North Asia



# Gas Development - Thebe, Western Australia

- During FY08, BHP Billiton discovered and further appraised the Thebe gas field
  - Similar gas composition to Scarborough
  - Evaluating the reservoir
  - Looking at options for development
  - 50 km north of Scarborough
  - Located in 100% owned and operated WA-346-P permit



# North West Shelf Project - CWLH Life Extension Project

- Cossack Pioneer production greater than 60,000 bbl/d (100%)
- Evaluating option to extend field lives of Cossack, Wanaea, Lambert and Hermes
- Cossack Pioneer replacement studies currently underway with final investment decision expected in Q4 CY2008
- Hermes appraisal well currently being drilled to evaluate reserve upside
- Potential infill well in 2009
- Studies continuing for future infill opportunities
- BHP Billiton (Non-operator, ~16.7%)



Cossack Pioneer

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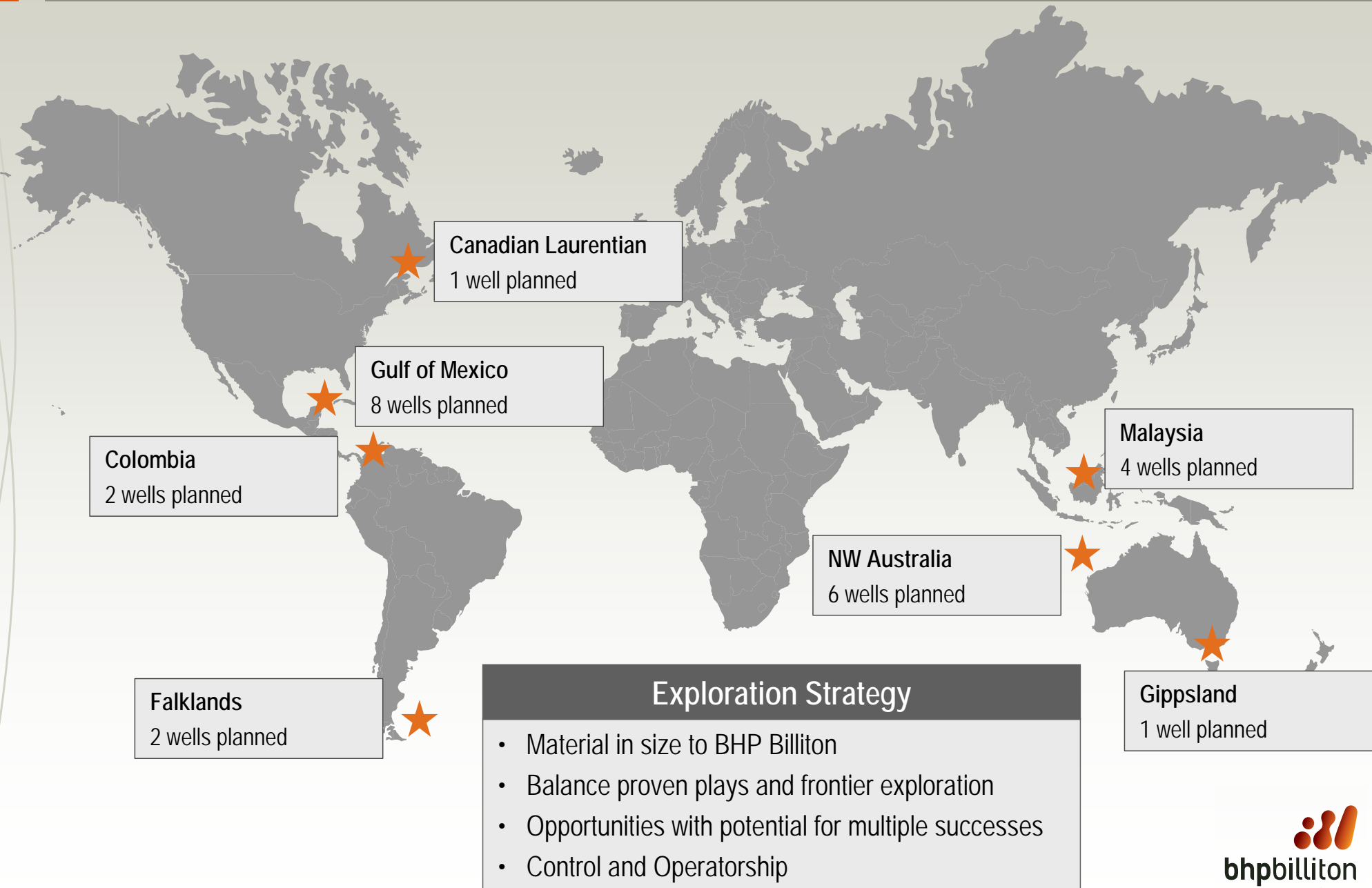
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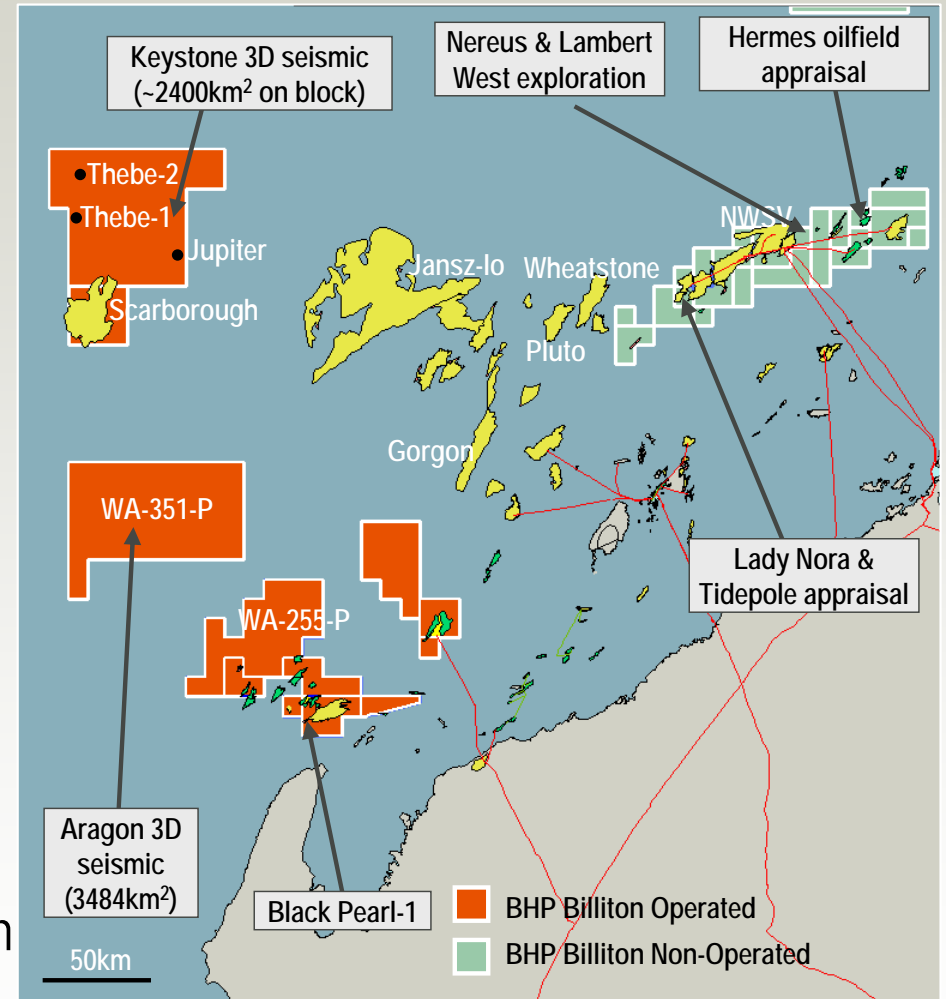
Exploration

# Key exploration and appraisal wells anticipated over coming years



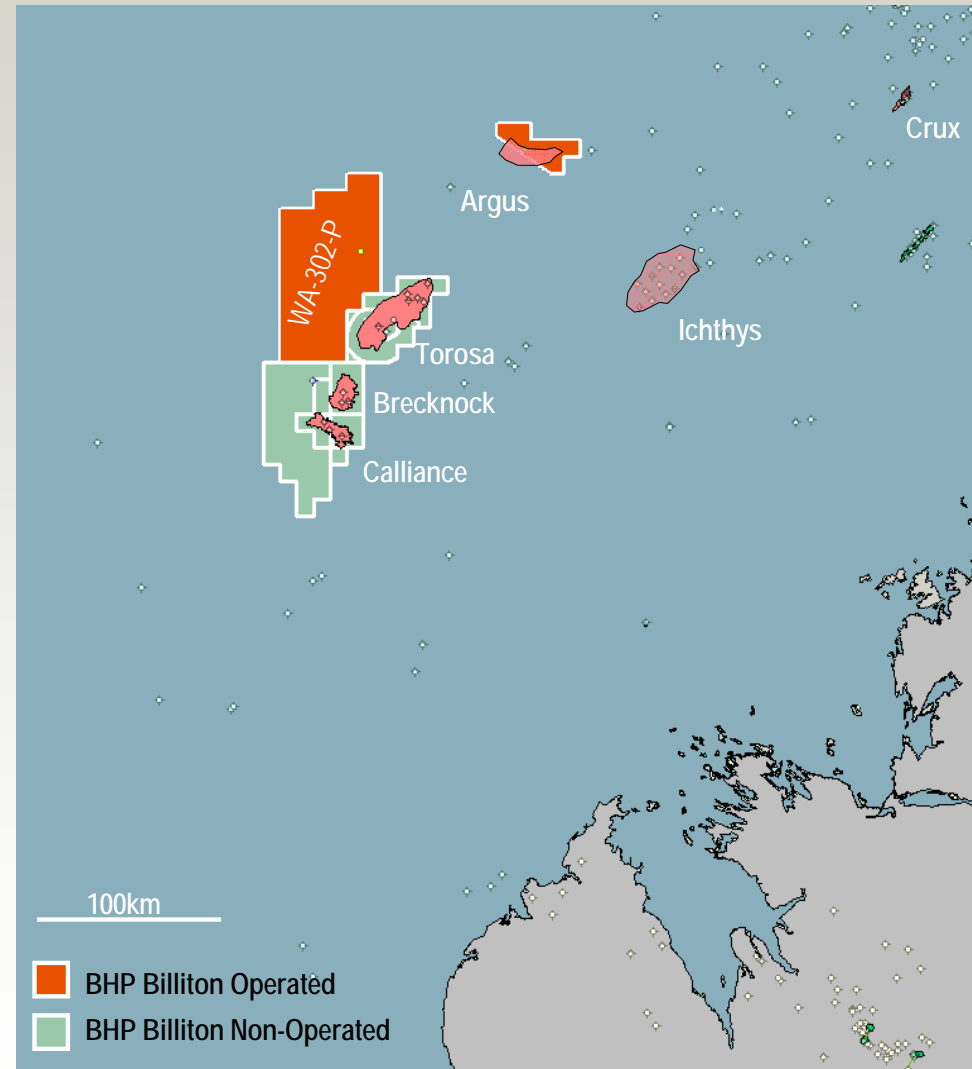
# Carnarvon Basin - exploration and appraisal activity

- Underwrote acquisition of large multi-client 3D seismic surveys over Exmouth Plateau acreage
- Exploring for additional reserves
  - Black Pearl-1 exploration well in WA-12-R expected to spud Q1 CY09
  - Additional exploration planned in WA-255-P in FY10
- NWSV appraisal and exploration
  - Six month campaign from September 08, building on significant success during FY07 and FY08
  - Hermes oilfield appraisal
  - Lambert West and Nereus exploration
  - Lady Nora and Tidepole appraisal



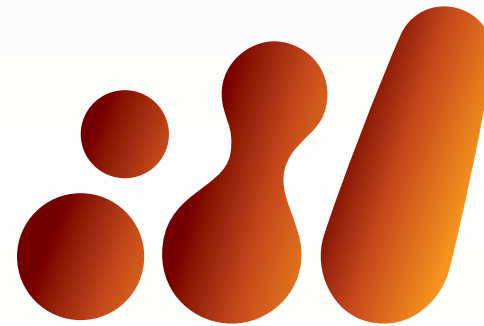
# Browse Basin – exploration and appraisal activity

- Located approximately 400 km north west of Broome
- Browse complex of fields (Torosa / Calliance/ Brecknock):
  - Recent drilling and acquisition of new seismic data on Torosa and Calliance fields has significantly improved understanding of overall resource base
- Appraisal program continues; development options under evaluation
- Evaluating prospectivity of Argus gas discovery and WA-302-P exploration permit (including possible deepwater extension of Torosa Field)



# Concluding Remarks

- Significant assets
- Continued production growth
- Commercialising gas opportunities in the region
- Major exploration focus
- Australia a major contributor to current and future Petroleum production



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