Corporate Presentation

4 October 2013



ASX ANNOUNCEMENT

Carnarvon Petroleum Limited ("Carnarvon") (ASX:CVN) is pleased to provide shareholders with the attached Corporate Presentation given by Mr Adrian Cook, Carnarvon's Managing Director, at the 19th Asia Upstream Conference in Singapore, on Friday 4 October 2013.

For this presentation and further information on the Company please visit the CVN website at: www.carnaryon.com.au

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Yours faithfully

Thomson Naude

Company Secretary

Carnarvon Petroleum



Asia Upstream Conference

4 October 2013



Introduction to Carnarvon



Eleven exploration & production blocks in Western Australia and Thailand

Thailand

3 onshore Concessions containing oil production and exploration CVN 40%

Western Australia

6 offshore exploration permits on the North West Shelf CVN 13% to 100%



2 onshore oil exploration Concessions **CVN 100%**

Listed on Australian stock exchange (CVN) with head office in Perth, Western Australia

Snapshot



- Near term North West Shelf (NWS) drilling targeting gas + condensate
- Short term oil production growth from Thailand operations
- Long term exploration opportunities in Thailand & NWS

North West Shelf

- ✓ significant acreage holding over 28,000km² in six offshore blocks, five of which are contiguous
- ✓ Plans underway for a staged exploration program starting near **discovered gas** (Phoenix-1 well)
- √ farm-out completed in 2012 to Apache and JX Nippon to fund two wells in two of five contiguous blocks
- ✓ first high impact well (Phoenix South-1) to spud late Q4, 2013 (tentatively December 2013)
- ✓ second high impact well (contingent) could be drilled in early 2015
- ✓ farm in opportunities currently being prepared in the additional three blocks

Thailand

- ✓ oil production from onshore fields around 300km north of Bangkok
- ✓ significant undeveloped reserves supported by two independent reserves consultants
- ✓ large exploration potential covering near field and frontier opportunities across 5 Concessions
- ✓ current focus is on technical work around undeveloped reserves and new exploration.
- √ farm in and investment opportunities currently available



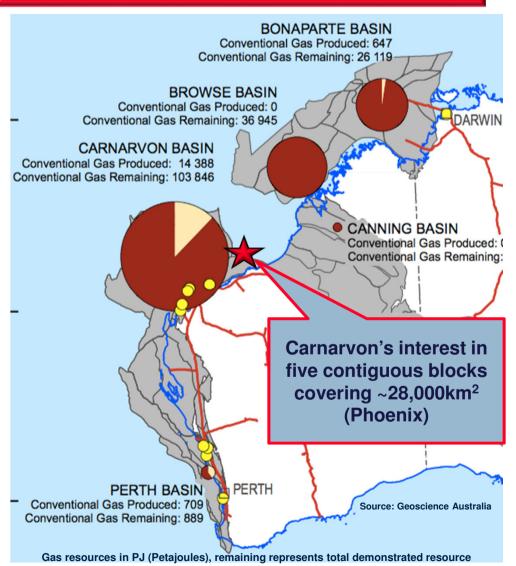
North West Shelf

Hydrocarbon province



Western Australia contains world class hydrocarbon resources

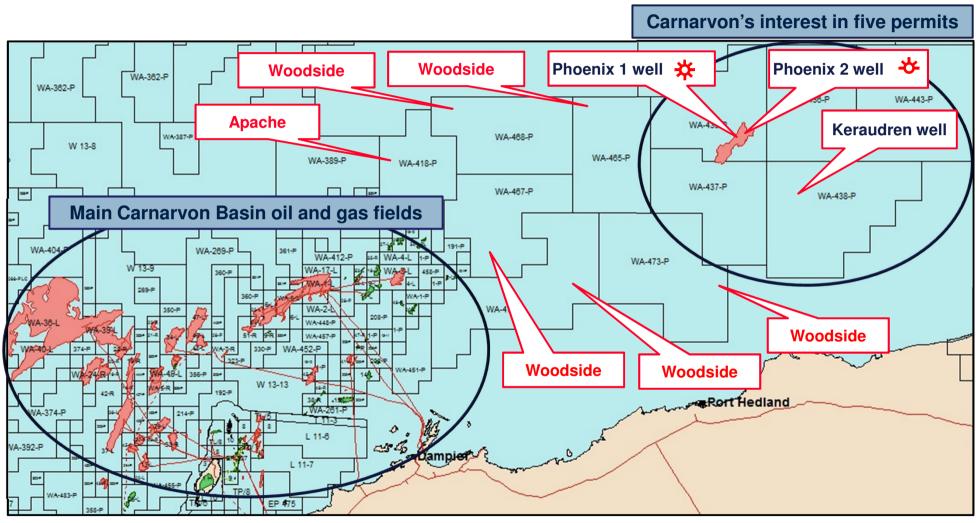
- Carnarvon's interests (Phoenix) are located around 250km from a number of major gas fields in the Carnarvon Basin, including:
 - Perseus / Goodwyn,
 - Wheatstone,
 - Pluto, and
 - Gorgon
- These and other fields in the area contain
 in excess of 100 Tcf of remaining gas reserves
 - Many with associated liquids
- These fields (like Phoenix) are located:
 - in around 150m water depth, and
 - around 150km from shore.
- Existing LNG facilities process gas from these and other fields in the area
- A domestic gas pipeline also connects these and other fields to strong gas demand in WA comprising retail, mineral processing and industrial customers. WA currently consumes around 1,000 TJ / day with a substantial amount of gas supply expected to be reduced from 2020.



Regional trends



Increasing exploration activity trending north of Carnarvon Basin

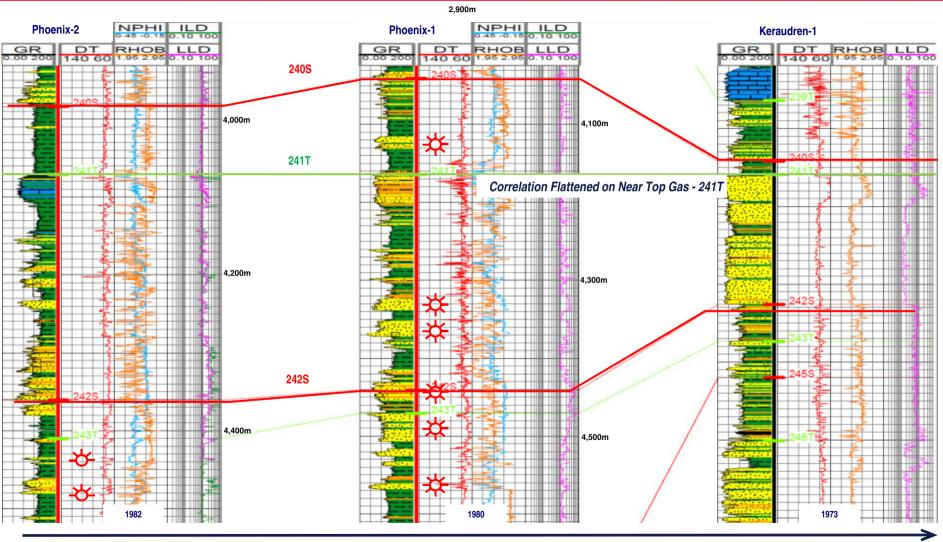


Shell and Repsol also have interests outboard of Carnarvon's interests

Past wells show prospectivity



Gas discovered in Phoenix-1 from 4,100m to TD at 4,800m



Improving reservoir characteristics

Running Room



The plan is to explore this large and lightly explored region starting near discovered gas

1. Large area secured with growth potential

■ 5 blocks awarded in 2008 covering 28,000km² (~40 times the size of Singapore)

2. New & additional data acquired

Phoenix 3D seismic acquired in 2010/11

3. Drilling first well near discovered gas

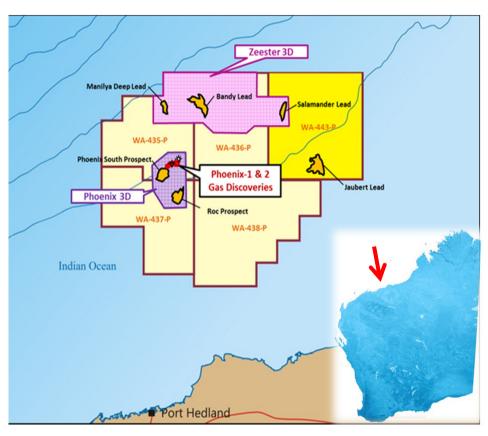
- Apache and JX Nippon farmed into WA-435-P in 2012
- Phoenix South well to spud Q4, 2013

4. Drill second well as step out

- Apache and JX Nippon also farmed into WA-437-P to drill Roc prospect
- Contingent well potentially in early 2015

5. Preparing to add additional value

- Zeester 3D acquired by CGG in 2012 covering several oil leads (to be licenced)
- Most particularly over the Bandy lead in WA-436-P, being the next permit to be offered for farm out



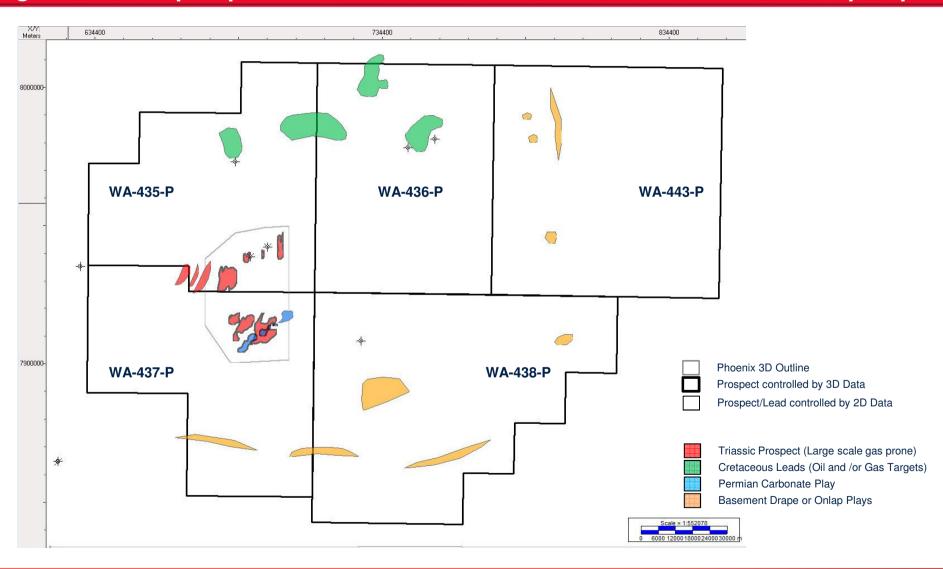
Carnarvon's interests

- 20% WA-435-P and WA-437-P
- 50% WA-436-P and WA-438-P
- 100% WA-443-P

Prospects and leads



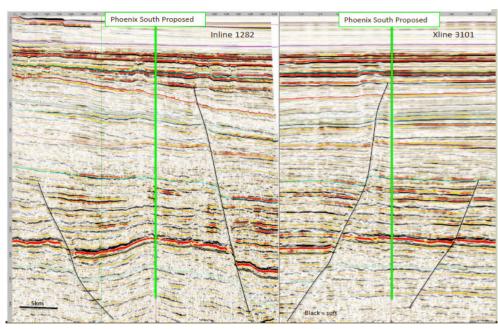
Significant new prospects and leads in addition to Phoenix South and Roc prospects



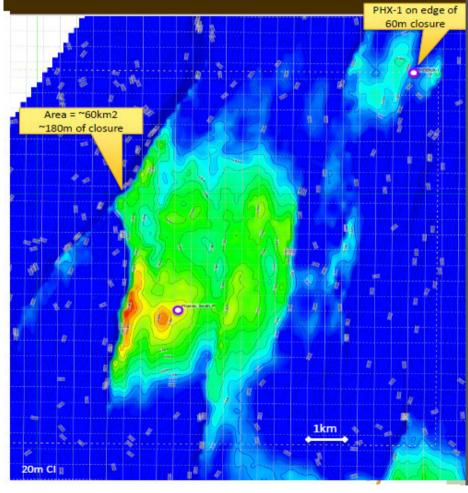
Phoenix South Materiality



Robust closure, large area and potential multiple gas sands (and oil potential)



- Phoenix South-1 targeting gas sands logged in Phoenix-1
- Multiple gas sands expected to be encountered
 - If gas sands have independent contacts there is the potential for multiple discoveries
- Multiple Tcf gas potential with associated liquids
- Roc prospect is of a similar size



Base Cossigny limestone is good regional marker

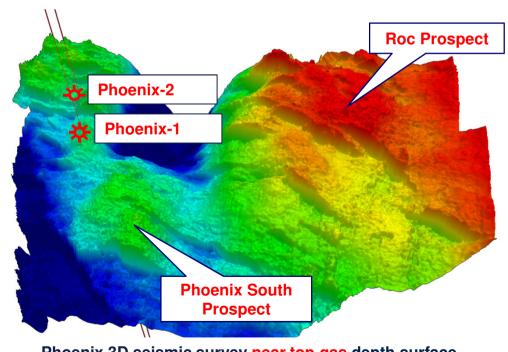
Timing



Phoenix South-1 well spudding in ~ 8 to 12 week's time



- Phoenix South-1 well expected to spud late 2013
- Atwood Eagle semi-sub drilling rig is under contract with Apache for Phoenix South-1 well
- Technical work supports significant gas volumes
 - condensate volumes projected at ~50 mmbbls/Tcf



Development



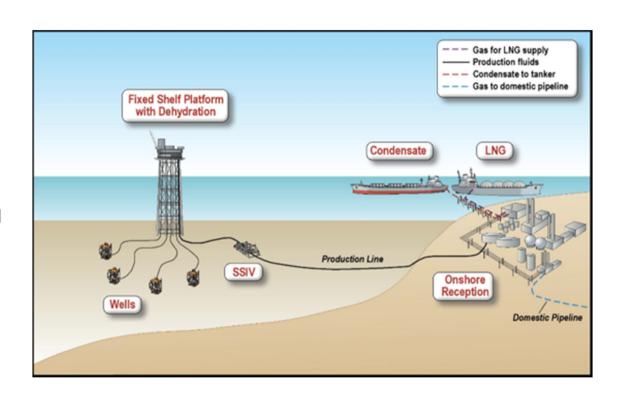
Potential scale of the resource and proximity to infrastructure provides multiple options

Resource scale - multi Tcf fields

- Significant structures in Phoenix South and Roc prospects on 3D interpretation
- multiple hydrocarbon bearing sands on mud log analysis
- Additional prospects and leads of substance
- Reservoir quality sands are capable of flowing at prolific rates based on core and poro-perm data from Phoenix-1

Development

- Shallow water depths support conventional development
- Reasonably close to existing LNG (<250km) and domgas pipeline (<150km) infrastructure



Domestic Gas

Liquids Stripping LNG Feed Supply

LNG Project

Asset realisation (all or part)

Domestic Gas Swaps

Asset Swaps

Markets



Gas supply volumes to drive prices, WA and Asian demand is projected to remain strong

Western Australian domestic gas

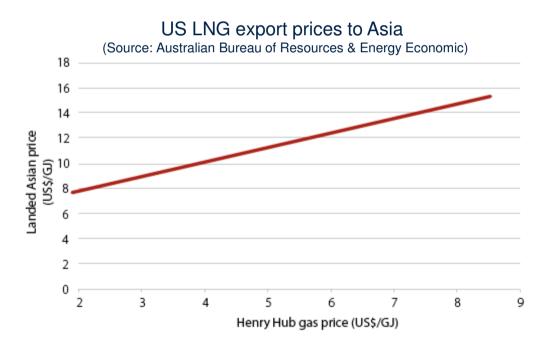
- Current gas pricing in WA is ~A\$8 / GJ
- Most of WA's gas supply comes from the North West Shelf Project (NWSP)
- The NWSP has shown limited interest in renewing its domestic gas supply contracts that expire around 2020 (source: Domgas Alliance)

Conclusion

- Flexibility is key for any development in ~ 2020
- as is having low cost production
- Carnarvon's Phoenix project is well positioned
 - with large projected gas volumes; and
 - low cost operations because of shallow water development and proximity to existing infrastructure

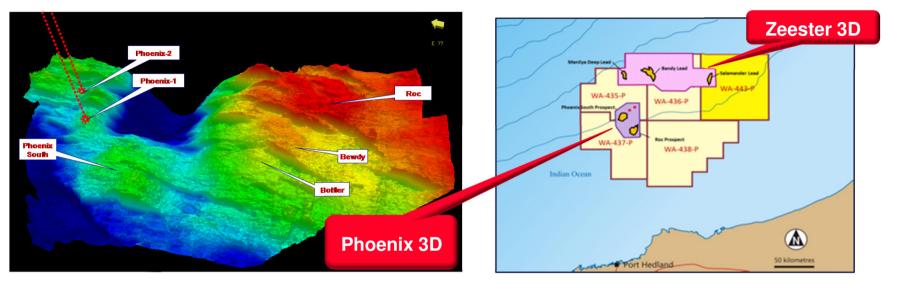
LNG exports to Asia

- Current LNG pricing in Asia is ~US\$15 / GJ
- If US and / or Canada export shale gas to Asia, LNG prices are expected to be around US\$10 / GJ



Phoenix asset wrap up





Discovered gas	Phoenix-1 discovered gas in 1980 when gas prices meant the discovery was not economic
New 3D seismic	First 3D seismic ever acquired over these permits and facilitated the 2012 farm out
Successful farm out	Apache and JX Nippon farmed into WA-435-P and WA-437-P committing to drill 2 wells
Phoenix South well imminent	Large four way closure, on trend with the Phoenix-1 discovery, is scheduled to spud late 2013. This is a multi Tcf gas proposition with significant associated liquids.
Forward plans in progress	Drilling of the farmed out Roc prospect likely to spud early 2015 (WA-437-P). Farm out (of WA-436-P) with new Zeester 3D seismic and large Bandy oil lead to commence in 2014



Thailand

Production overview



Substantial opportunity in development and production enhancement activities

Producing oil fields	 200,000 bbls (net) produced in 2013 FY Production set to increase from late 2013 Exposure to strong oil price (unhedged)
Undeveloped reserves	 2.4 MMbbl (net) in proved undeveloped reserves Profitable operations Break even less than 20,000 bbls per well
Significant other potential	 Water flood project commenced August 2013 Enhanced Oil Recovery projects in concept stage
Established infrastructure	 High quality four lane highway to truck oil Oil trucked to refinery at \$2.20 / bbl (gross)
Quality end-market	 Oil sold to PTT Contract renewed July 2013 Current realised price around US\$95/bbl
Active drilling program	 Active drilling program planned for late 2013 Drilling on new 3D seismic data (first since 2007) Planned 5 to 8 well program



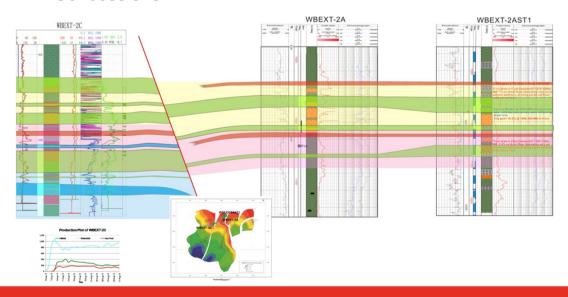
Carnarvon has been involved in drilling around **200 wells** in Thailand since 2007

Technical work

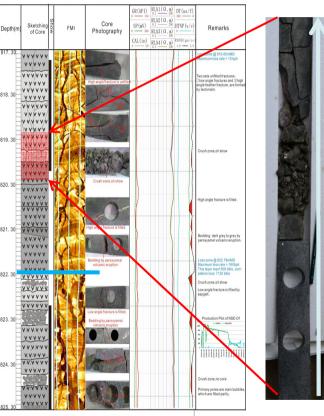


Technical work leading to area specific development plans

- Geological and technical work is progressing including renewed
 - core analysis
 - mud log analysis
 - gas, oil and water contact analysis
- Development planning in the L33 Concession is focused around the new 3D seismic data
- Development plans for the WBEXT Igneous reservoirs are anticipated to be available late October 2013
- Development plans are progressing for other fields within the Concessions



Well NSE-D1 Four Property



Thailand forward program



Development and exploration drilling re-commence late 2013

Drilling rig to return late 2013

- WBEXT development drilling
 - 7-8 wells locations ready
- L33/43 shallow reservoir development
 - Well locations ready

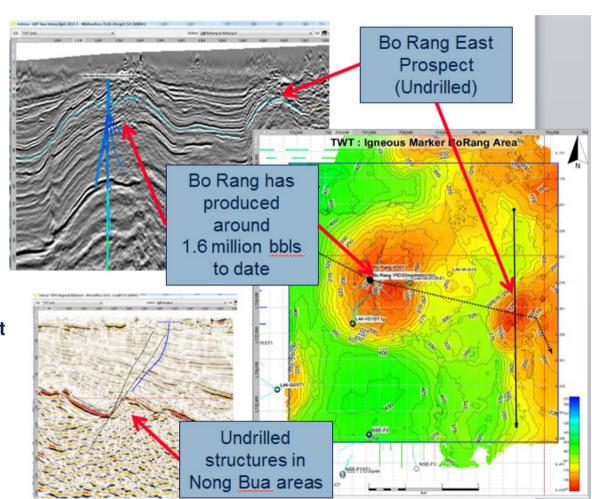
Further drilling planned in early 2014

- Si Thep
- Na Sanun East
- Bo Rang

Exploration in conjunction with development drilling planned in

- L33/43 exploration
- NSE West
- Nong Bua

All funded from ongoing production and sales

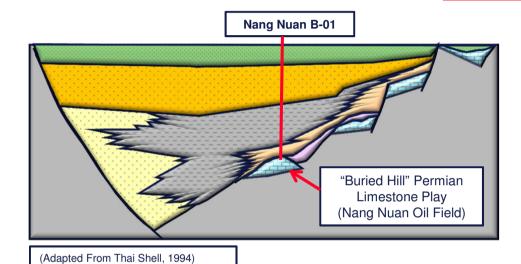


Onshore oil in Khian Sa Basin (L52/50 & L53/50)

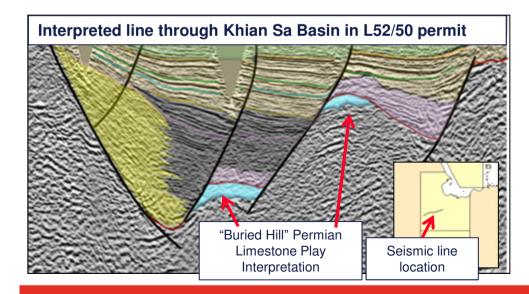


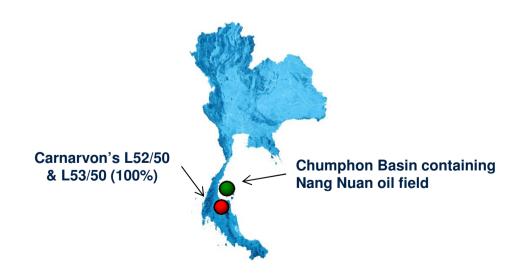
Northern Chumphon Basin Schematic

Frontier oil exploration opportunity



- Largest Tertiary basin in southern Thailand.
- Under-explored, only two conventional wells drilled.
- Similar basin architecture to the Chumphon Basin.
- Three robust prospects identified
- Nang Nuan Field is an excellent analogue.







Conclusion

Investment highlights



Western Australia – 6 NWS permits

Potential game changer for WA gas

- Scale of resource is significant
- Location is ideal for development
- Multiple markets supplying domgas & LNG

Proven gas province

- Phoenix-1 was a gas discovery
- New 3D seismic supports the drilling program

Ready to drill multi Tcf prospects

- 2 prospects to drill, first to spud Q4,2013
- Potential liquids rich gas
- Farm out covers 2 wells to US\$100m cap

Extensive follow up opportunity

- Portfolio of oil and gas leads in over 28,000km² of permit holdings
- Large equity interests held
- Additional farm outs planned with new 3D already acquired over oil lead in WA-436-P

World class operator

- Apache operating the 2 farmed out permits
- Drilling rig for first well already under contract

Thailand – 5 E&P concessions

Balanced portfolio for growth

- Existing production
- Appraisal and development in 2 reservoir types
- Exploration from step out through to frontier

Proven oil present

- Production increasing
- Reserves independently assessed
 - 1P reserves of 8.5mmbbls gross
 - 2P reserves of 30 mmbbls gross
- Undeveloped reserve development in progress

Unexploited opportunities

- Significant prospects identified on new 3D seismic over proven oil in L33 Concession
- Next drilling commencing late Q4, 2013

Significant acreage still to be explored

Both sandstone and igneous potential

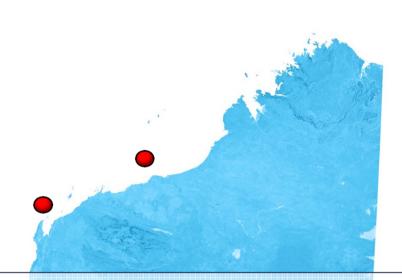
New opportunities being worked on

- Deeper play types
- New play types
- Technology and EOR

Investment highlights

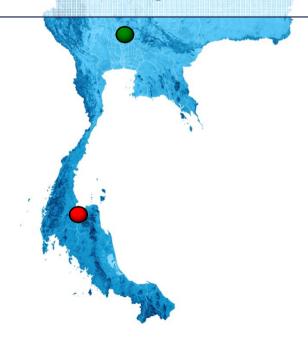


Success in Carnarvon's portfolio will deliver value multiples on current enterprise value



- Potential game changer for WA gas
- Proven gas province
- Ready to drill multi Tcf prospects
- Extensive follow up opportunity
- World class operator

- Balanced country portfolio for growth
- Proven oil
- Unexploited opportunities
- Significant acreage still to be explored
- New opportunities being worked on



Disclaimer

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Thank you and have a good day





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