



**CARNARVON**  
PETROLEUM LTD

ASX: CVN

**Corporate presentation**

**July 2015**

# Disclaimer

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The Resource estimates outlined in this report were reviewed by the Company's Chief Operating Officer, Mr Philip Huizenga, who is a full-time employee of the Company. Mr Huizenga has over 20 years' experience in petroleum exploration and engineering. Mr Huizenga holds a Bachelor Degree in Engineering and a Masters Degree in Petroleum Engineering. Mr Huizenga is qualified in accordance with ASX Listing Rules and has consented to the form and context in which this statement appears.

All continent and prospective resources presented in this report are prepared as at 7 April 2015 per the DeGolyer and MacNaughton reports released to the ASX on 7 April 2015. The estimates of contingent and prospective resources included in this announcement have been prepared in accordance with the definitions and guidelines set forth in the SPE-PRMS. DeGolyer and MacNaughton is an independent international energy advisory group whose expertise is in petroleum reservoir evaluation and economic analysis. The continent and prospective resources presented in this report are based on information compiled by professional staff members who are full time employees of DeGolyer and MacNaughton. Carnarvon is not aware of any new information or data that materially affects the information included in this presentation and that all material assumptions and technical parameters underpinning the estimates in this presentation continue to apply and have not materially changed.

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**Technically-driven** North West Shelf focused business (Western Australia)

**Oil discovery** in 2014; US\$70 million (gross) carried well drilling in Q4, CY2015; aggregate independent best estimate 104 mmbbl resource (gross)

**Fiscal strength** with ~A\$120 million liquid assets underpinning enterprise value (A\$97 million in cash)



# Growth options and cash backed



**NOW**

Future Blocks and New Farm Outs

New Cerberus Blocks: shallow oil targets in NWS

Roc Well expected 2015 (US\$70 million gross carry)

Phoenix South 1 Oil Discovery in 2014

\$120m in "liquid assets"  
(cash and cash flow)

GROWTH

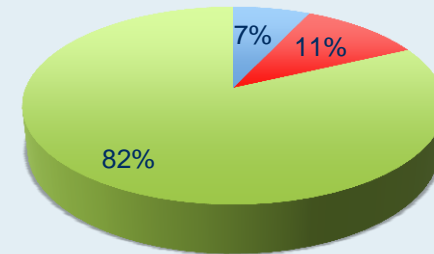
FUNDING

TIME

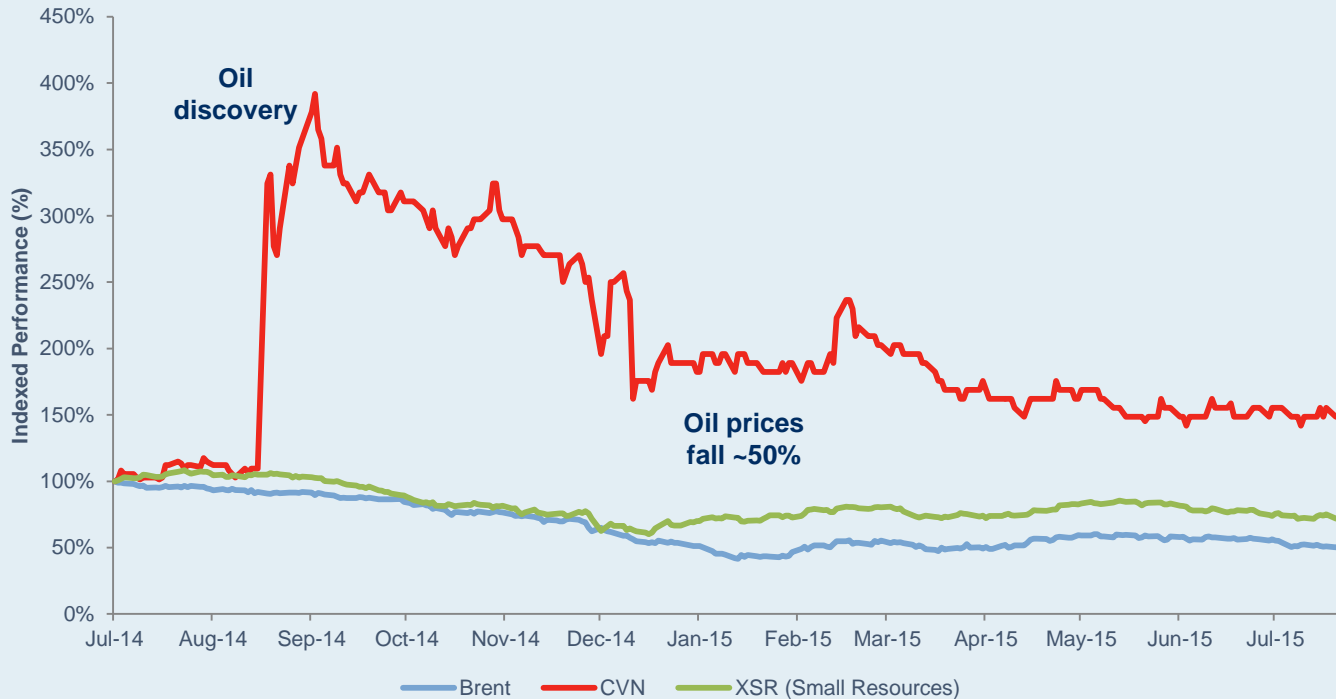
# Corporate overview

|                                       |                |
|---------------------------------------|----------------|
| ASX-listed shares (CVN:AU)            | 994m           |
| ASX-listed options (CVNO:AU)          | 48m            |
| Share price                           | A\$0.11        |
| <b>Market capitalisation</b>          | <b>A\$110m</b> |
| Net cash                              | A\$97m         |
| Liquid asset (cash flow ~US\$3m p.a.) | A\$23m         |

Retail weighted shareholder base



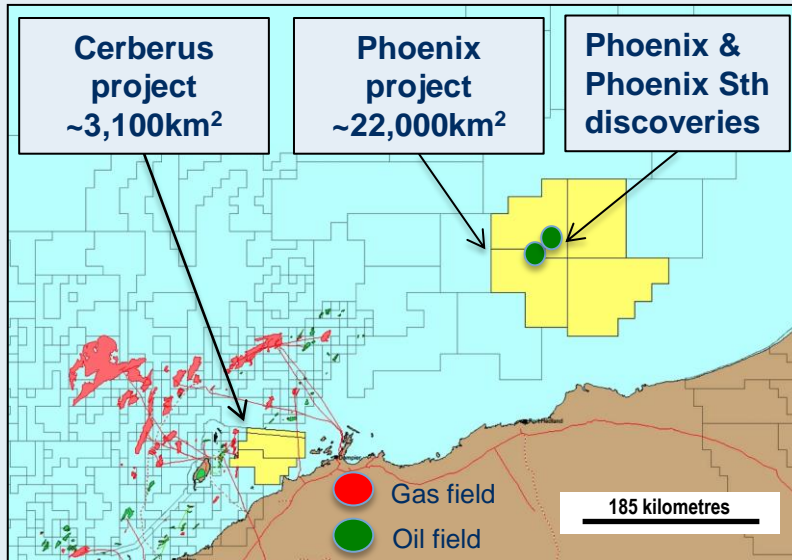
■ Directors and staff ■ Institutional investors ■ Retail and other investors



Carnarvon Petroleum

NWS position

# Focus: in the NWS



## Appeal of the NWS

- Prolific oil and gas region
- CVN technical knowledge
- Opportunities in underexplored areas and play types
- Value proposition with competitive fiscal regime, low sovereign risk, existing services & infrastructure

## Phoenix Project (CVN 20%-30%)

- Operator: Quadrant Energy (ex Apache)
- Status: oil discoveries, exploration drilling, seismic acquisition

## Cerberus Project (CVN 100%)

- Operator: Carnarvon
- Status: technical work complete, seeking partners to advance to drilling

**Phoenix Project**

**New oil province**



# Phoenix: first 3D data over 1980 discovery



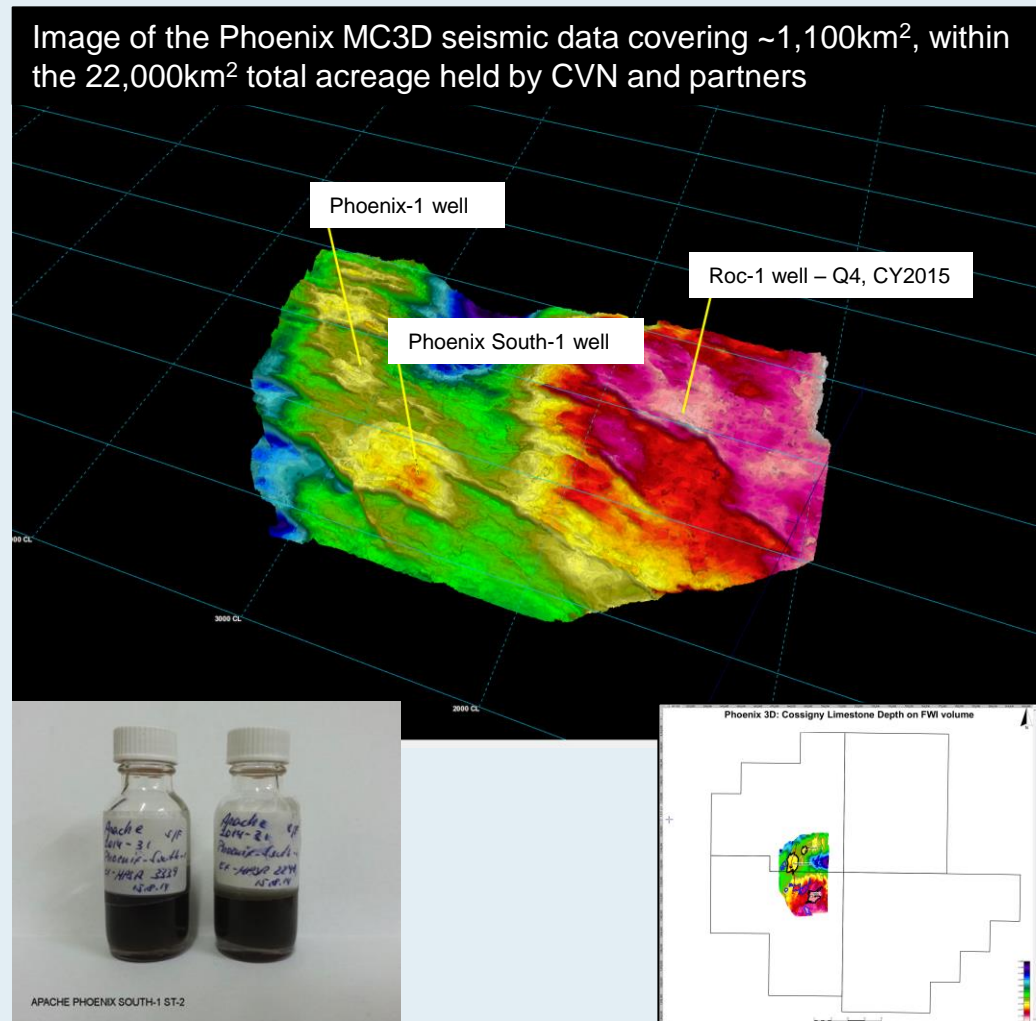
**2009** - CVN and partner acquire interest in the acreage in Government bid process

**2011** - CVN and partner complete acquisition of first ever 3D seismic in the area over BP's 1980 Phoenix-1 discovery

**2012** - CVN and partner farm out interest to Apache and JX Nippon for well carries aggregating US\$140 million gross

**2014** - CVN and partners make Phoenix South-1 discovery with ~46° API oil recovered to surface

**2015** - CVN and partners to drill Roc-1 well (expected Q4, CY 2015) with oil interpreted to also have migrated to this larger and enhanced reservoir quality structure



# Phoenix: 104 mmbbl aggregate best estimate resource\*



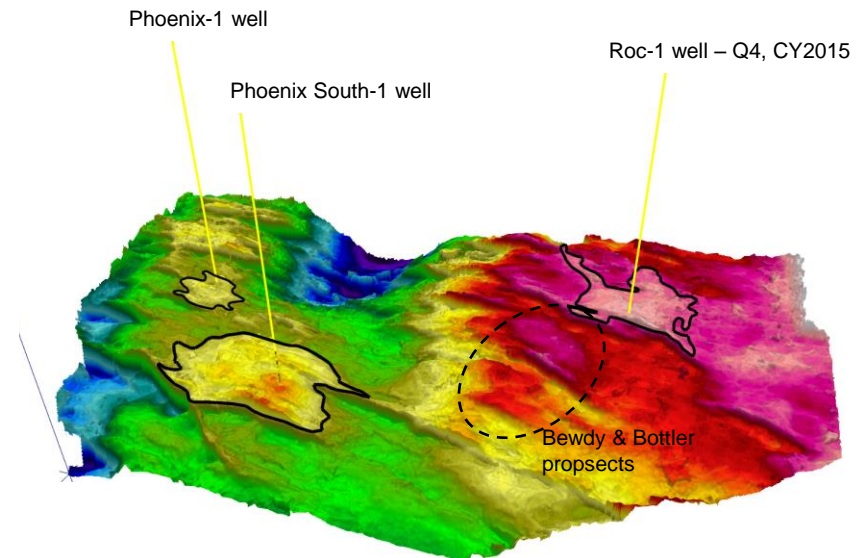
## Independent assessment

(by DeGloyer & MacNaughton)

## Resources\*

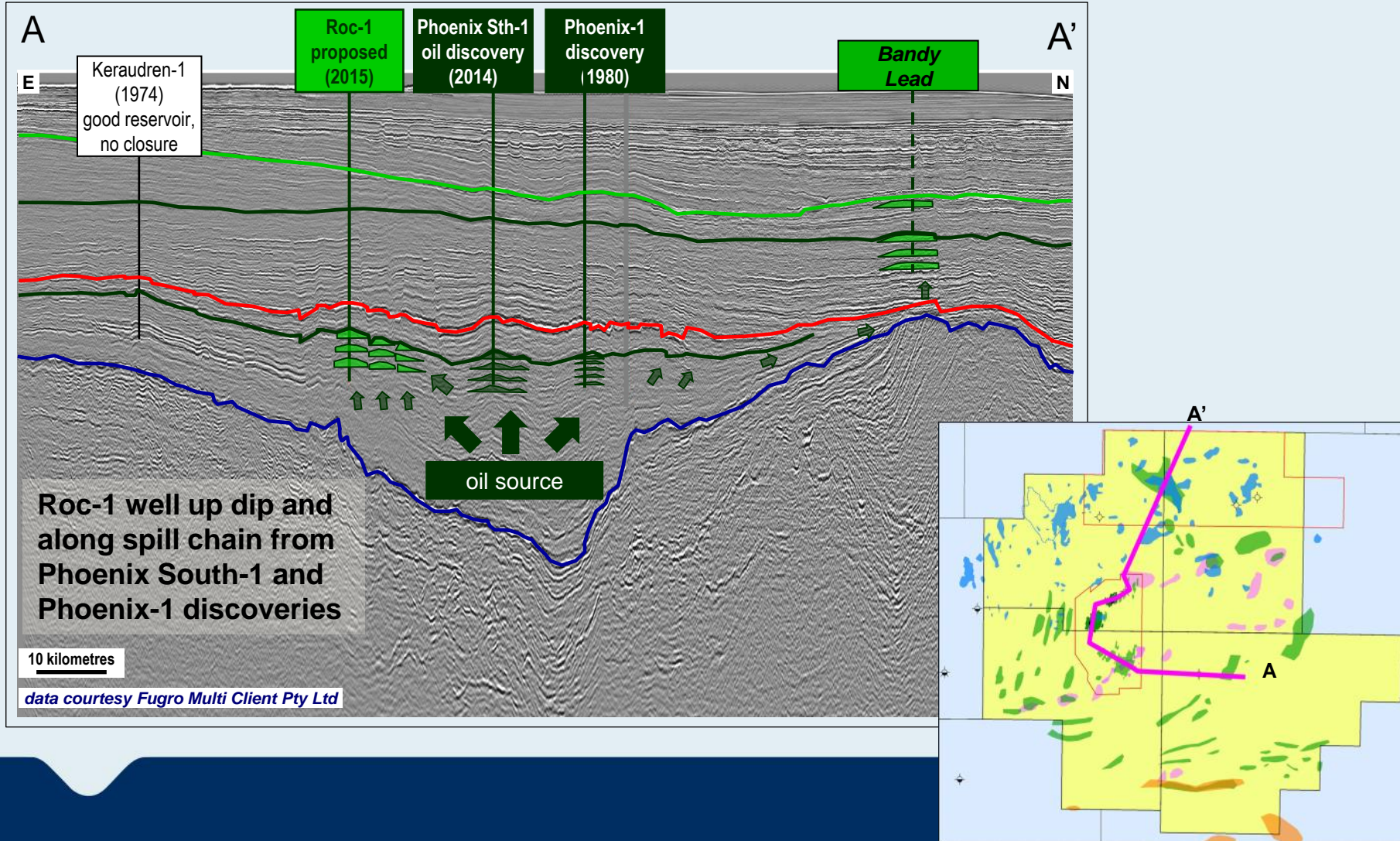
(gross mmbbls)

|  | Low | <b>Best</b> | High |
|--|-----|-------------|------|
| Phoenix<br>Contingent resources          | 3   | <b>9</b>    | 28   |
| Phoenix South<br>Contingent resources    | 6   | <b>19</b>   | 56   |
| Roc<br>Prospective resources             | 12  | <b>42</b>   | 133  |
| Bewdy & Bottler<br>Prospective resources | 5   | <b>16</b>   | 20   |

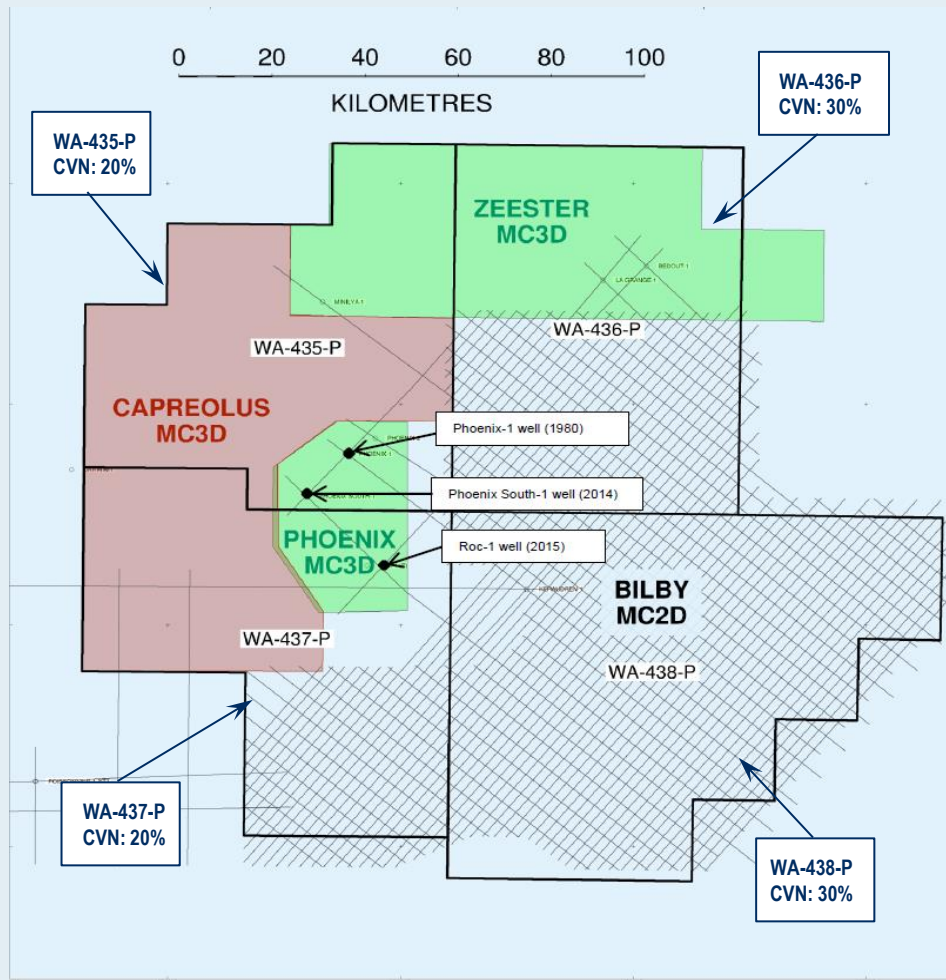


\* Refer ASX announcement 7 April 2015, CVN 20% interest in resources (calculated using probabilistic methodology)

# Phoenix: CVN acreage covers the basin

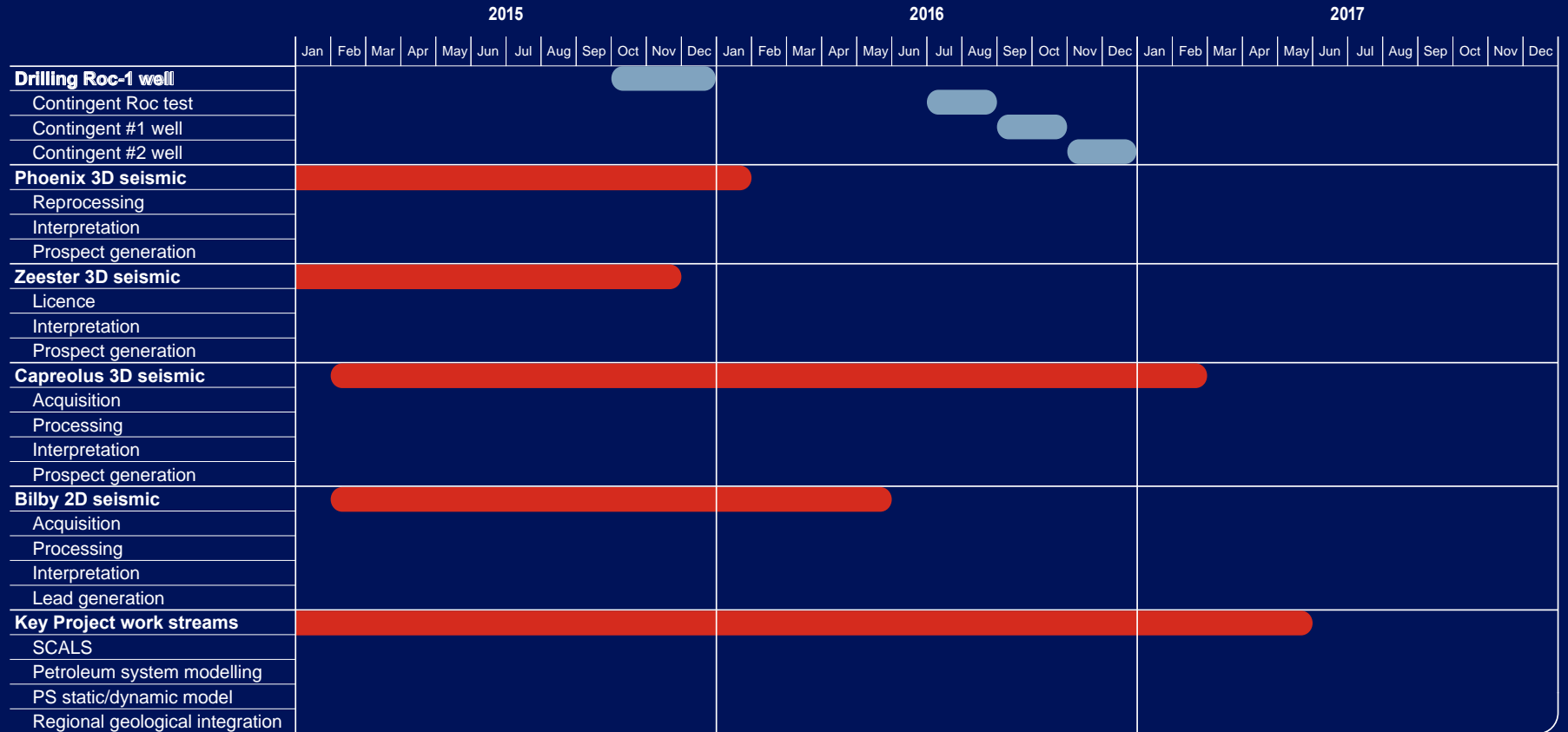


# Phoenix: additional data acquisition in progress



- The initial Phoenix MC3D covered ~5% of acreage holding
- At end of CY 2015 the total 3D data set will cover ~45% of CVN's acreage holding
- The new data is intended to assist in identifying new targets for potential drilling in 2016 and 2017
- The partners committed ~A\$52m to data acquisition in 2015

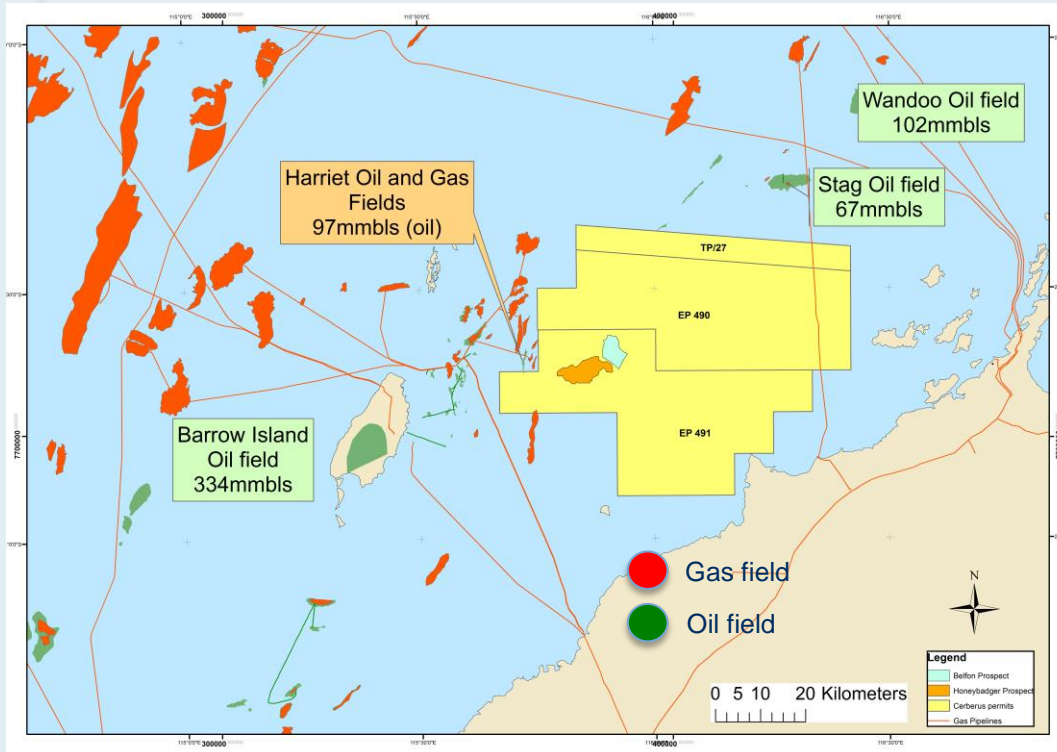
# Phoenix: activities



**Cerberus Project**

**New project**

# Cerberus: prolific hydrocarbon region



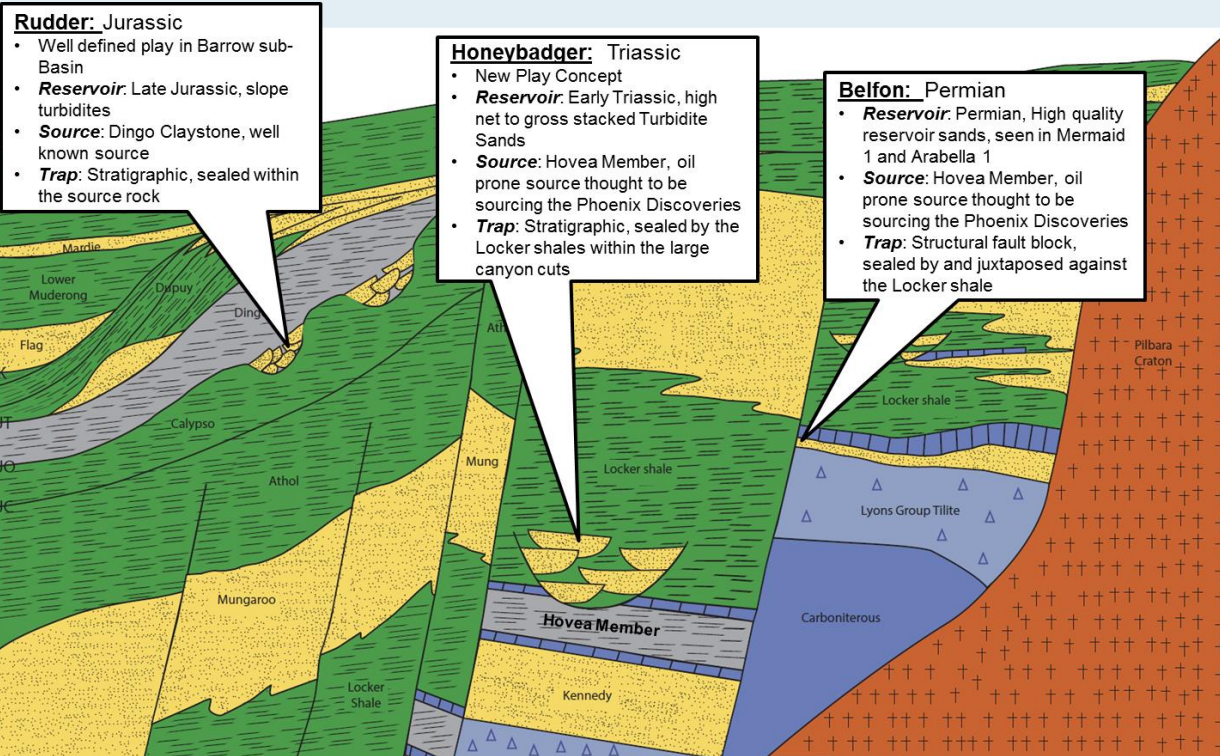
- Proven petroleum system
- Multiple play potential
- Large volume fields nearby
- Shallow water acreage with shallow target prospects
- Close to pipeline infrastructure and onshore services
- High value success case

# Cerberus: prospects and petroleum systems

- Acquired in May 2014
- Multiple play types
- Discretionary wells in 2017/18
- significant volume targets
- Jack-up well costs \$10-20 million to 2,000 metres

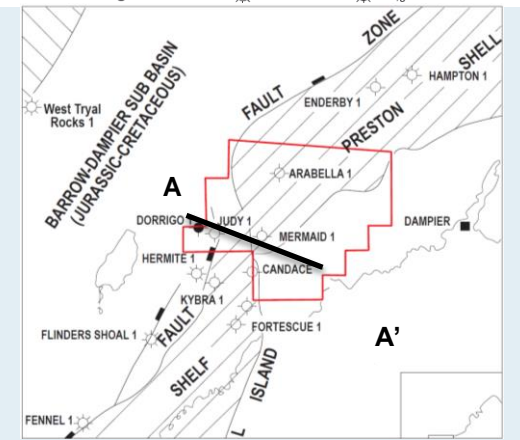
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| AGE        | LITHOLOGY             |                           | ROCK UNITS             | MAJOR PETROLEUM OCCURRENCES                 |   |
|------------|-----------------------|---------------------------|------------------------|---|---|
|            | NW<br>EMMOUTH PLATEAU | SE<br>BARROW-DAMPIER RIFT |                        |   |   |
| CRETACEOUS | TURONIAN              |                           |                        |   |   |
|            | CENOMANIAN            |                           | LOWER GEARLE SILTSTONE | ☀   |   |
|            | ALBIAN                |                           |                        |   |   |
|            | APTIAN                |                           | WINDALLA RADICLARITE   | ☀   |   |
|            | BARREMAN              |                           | MUDERONG SHALE         | WINDALLA SST<br>MARDIE GRIND<br>BEDDING SST | ☀ |
|            |                       |                           |                        | FLAG FM<br>BARROW GP                        | ☀ |
| JURASSIC   | UPPER                 |                           | UPPER DINGO CLAYSTONE  | ☀   |   |
|            |                       |                           | ANGEL FM               | ☀   |   |
|            | MID                   |                           | MIDDLE DINGO CLAYSTONE | ☀   |   |
|            |                       |                           | LEARNMOUTH FM          | LEGENDRE FM                                 | ☀ |
|            | LOWER                 |                           | LOWER DINGO CLAYSTONE  | ENDERBY FM                                  | ☀ |
|            |                       |                           |                        |   | ☀ |
|            | TRIASSIC              | UPPER                     |                        | BRIGADIER FM                                | ☀ |
|            |                       |                           |                        | MUNGAROO FM                                 | ☀ |
|            |                       | MID                       |                        | LOCKER SHALE                                | ☀ |
|            |                       |                           |                        |   | ☀ |
| PERMIAN    | UPPER                 |                           | LYONS GROUP            | ☀   |   |
|            |                       |                           |                        | ☀   |   |
|            |                       |                           |                        | ☀   |   |
|            |                       |                           |                        | ☀   |   |
|            |                       |                           |                        | ☀   |   |
|            |                       |                           |                        | ☀   |   |
| CARB       | LOWER                 |                           |                        | ☀   |   |
|            |                       |                           |                        | ☀   |   |

(After Barber, 1988)  
Nanyanga Sandstone is lower Devonian in age.  
Barrow Group consists of Flacourt and Malouet Formations.  
Correct time relationships are shown for rock units but not all units are present in each sub-basin.





# Cerberus: Early Triassic Park

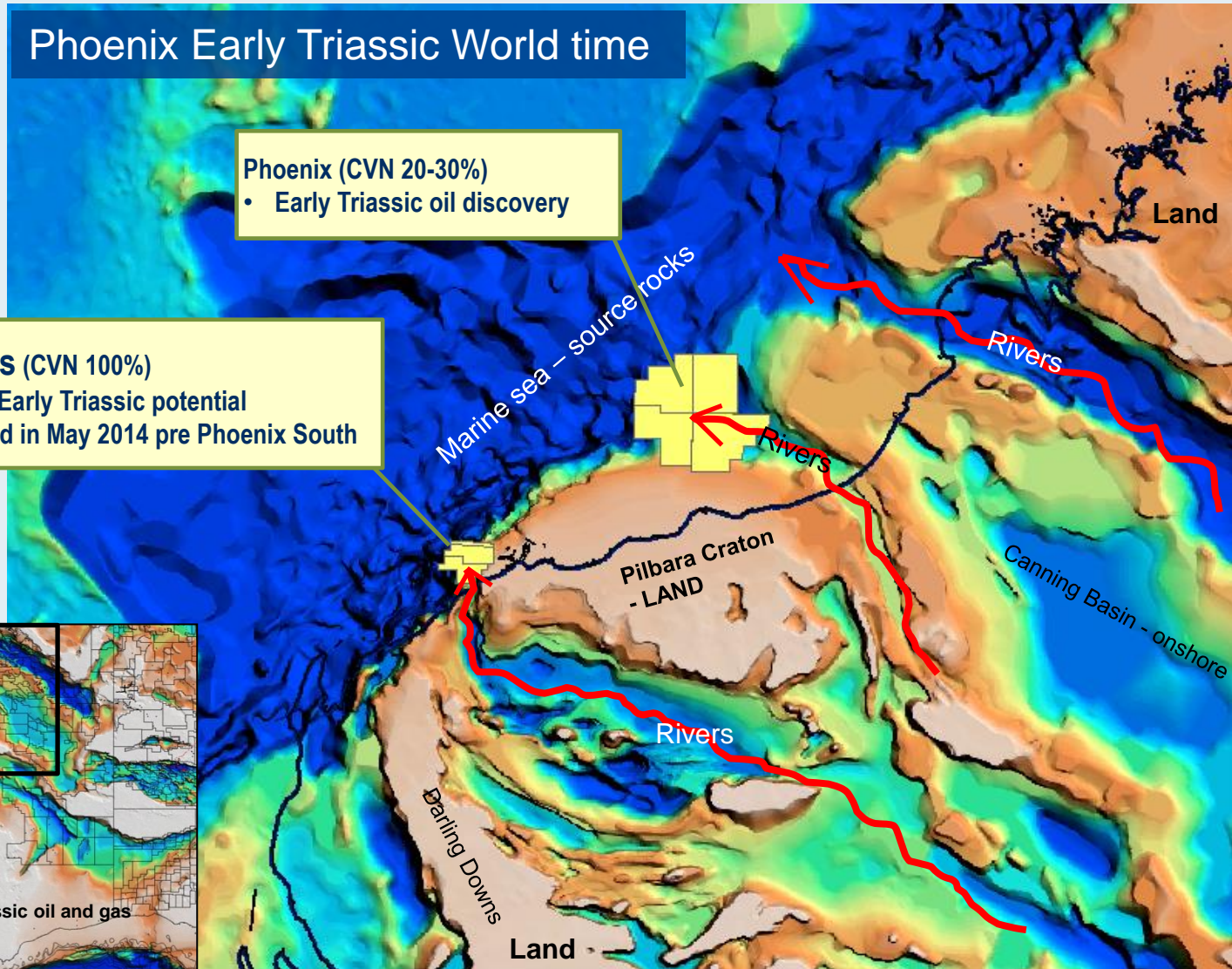
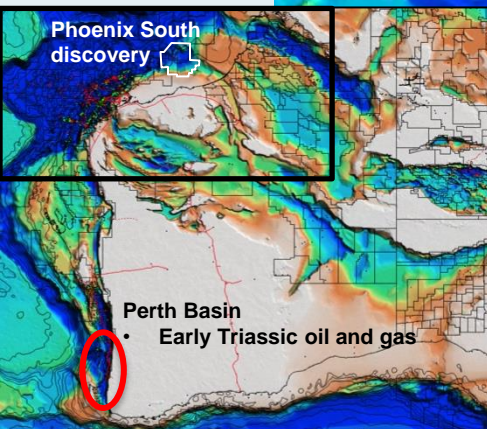


## Phoenix Early Triassic World time

Phoenix (CVN 20-30%)  
• Early Triassic oil discovery

### Cerberus (CVN 100%)

- Similar Early Triassic potential
- Acquired in May 2014 pre Phoenix South



**Conclusion**

**NWS exploration specialist**

# Highlights

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- **Technically driven** and NWS focused
- **Play opening oil discovery** in 2014 in Phoenix South-1 well
- **High impact Roc-1 well** drilling in Q4, CY2015 with CVN carried to US\$70 million gross
- **New ventures team** one of Australia's biggest and most experienced
- **Fiscal strength** with A\$120 million in liquid assets underpinning enterprise value (A\$97 million in cash)



**Think** different  
**Act** different

# Board of Directors



## **Peter Leonhardt – Chairman**

Peter is an independent company director and adviser with extensive business, financial and corporate experience. He is a Chartered Accountant, former Senior Partner with PricewaterhouseCoopers and Managing Partner of Coopers & Lybrand in Western Australia. His professional career with the firm spanned 35 years in Australia and overseas.



## **Adrian Cook – Managing Director & Chief Executive Officer**

Adrian's executive experience is in commercial and financial management. Immediately prior to joining Carnarvon, Adrian was the Managing Director of Buru Energy Limited and held senior executive positions within Clough Limited's oil and gas construction business and with ARC Energy Limited, a former ASX listed oil and gas exploration and production company that he was involved in merging with AWE Limited.



## **Ted Jacobson – Non-Executive Director**

Ted is a petroleum geophysicist with extensive experience in petroleum exploration in Australia. Ted's entrepreneurial initiatives include co-founding Discovery Petroleum and Tap Oil Ltd, the later growing to a market capitalization of over \$400 million under his technical leadership. Ted has a strong technical understanding of the North West Shelf of Western Australian.



## **Bill Foster – Non-Executive Director**

Bill is an engineer with extensive technical, commercial and managerial experience in the energy industry, covering particularly M&A, project financing and marketing. Bill has held several independent director positions in public listed companies and was a senior advisor to a major Japanese trading company in the development of their global E&P and LNG activities.



## **Dr Peter Moore – Non-Executive Director**

Peter has extensive experience in exploration and production in Australia and internationally gained through senior roles with a number of globally recognised companies. Peter led Woodside's worldwide exploration efforts as the Executive Vice President Exploration reporting to the CEO and was the Head of the Geoscience function (Exploration, Development, Production, M&A).

# Management Team



## **Philip Huizenga – Chief Operating Officer**

Philip is a petroleum Engineer with nearly 20 years in the oil and gas industry encompassing drilling, logging and production on offshore and remote locations throughout Australian, Asia and the Americas. Phil was previously with Tap Oil during an active period exploring and producing in the North West Shelf.



## **Dr Stephen Molyneux – Exploration Manager**

Stephen has significant experience in exploration seismic interpretation and development geology. He has had a successful career discovering oil and gas in senior roles with Origin Energy, Premier Oil Norway, Oilexco North Sea, PanCanadian and Enterprise Oil North Sea.



## **Dr Jeff Goodall – Chief Geologist**

Jeff has over 30 years experience in exploration and development geology throughout Australia, South East Asia and the North Sea. He was a Senior Staff Geologist for 14 years with Santos experiencing significant exploration success during that time in Australia and South East Asia.



## **Andrew Padman – Exploration Advisor**

Andrew has nearly 40 years experience in the upstream petroleum exploration & production industry, working on new venture, exploration and exploitation projects in the sedimentary basins of S.E. Asia for companies including Exxon, Woodside Petroleum, Premier Oil, Newfield and ARC Energy.



## **Thomson Naude – Chief Financial Officer and Company Secretary**

Thomson is a finance executive responsible for the overall financial management of the Carnarvon business. Thomson is a Chartered Accountant with experience in auditing, financial reporting and commercial transactions including the divestment of Carnarvon's Thailand production assets.