

**A UNIQUE
EXPOSURE TO THE
WORLD CLASS
DORADO
DISCOVERY**

CARNARVON
PETROLEUM LTD

**INVESTOR PRESENTATION
JUNE 2019**



The resource estimates outlined in this report have been prepared by the Company's Chief Operating Officer, Mr Philip Huizenga, who is a full-time employee of the Company. Mr Huizenga has over 25 years' experience in petroleum exploration and engineering. Mr Huizenga holds a Bachelor Degree in Engineering, a Masters Degree in Petroleum Engineering and is a member of the society of Petroleum Engineers. Mr Huizenga is qualified in accordance with ASX Listing Rules and has consented to the form and context in which this statement appears.

All contingent and prospective resources presented in this report are prepared as at 28 August 2017, 23 April 2018, 20 August 2018 and 15 October 2018 per the Company's announcements released to the 28 August 2017, 23 April 2018, 20 August 2018 and 15 October 2018. 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. 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. Carnarvon used deterministic and probabilistic methods to prepare the estimates of these contingent resources. These contingent resources have been aggregated by arithmetic summation and hence the aggregate 1C may be a very conservative estimate and the 3C may be a very optimistic estimate due to the portfolio effects of arithmetic summation.

There are numerous uncertainties inherent in estimating reserves and resources, and in projecting future production, development expenditures, operating expenses and cash flows. Oil and gas reserve engineering and resource assessment must be recognised as a subjective process of estimating subsurface accumulations of oil and gas that cannot be measured in an exact way. These prospective resource estimates have an associated risk of discovery and risk of development. Further exploration and appraisal is required to determine the existence of a significant quantity of potentially moveable hydrocarbons.

This presentation contains forward looking statements which involve subjective judgment and analysis and are subject to significant uncertainties, risks and contingencies including those risk factors associated with the oil and gas industry, many of which are outside the control of and may be unknown to Carnarvon Petroleum Limited.

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Given these uncertainties, readers are cautioned not to place undue reliance on such forward looking statements, and should rely on their own independent enquiries, investigations and advice regarding information contained in this presentation. Any reliance by a reader on the information contained in this presentation is wholly at the readers own risk.

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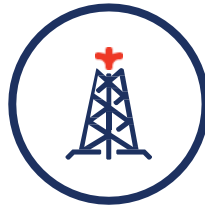
This presentation has been prepared by Carnarvon. No party other than Carnarvon has authorised or caused the issue of this document, or takes responsibility for, or makes any statements, representations or undertakings in this presentation.

Investment summary



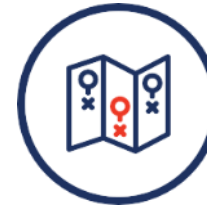
OIL & GAS DISCOVERED

Over 100 mmbøe discovered net to CVN¹



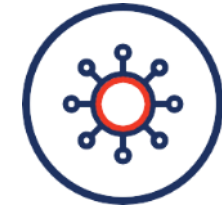
PRIME LOCATION

Ideal for development in shallow water West Australia



CONVENTIONAL RESERVOIRS

High quality reservoirs with similar prospects nearby



APPRAISE TO DEVELOP

Early oil development focus ahead of gas development



PREMIER PARTNER

Australia's 2nd largest O&G company Santos is 80% partner on Dorado



INVESTOR INTEREST

Increasing institutional investor interest in Carnarvon



CORPORATE GOVERNANCE

Experienced Board and management team in place



FOCUS ON VALUE

Value per share focus underpinned by fiscal discipline

Capital overview & 52 week share price

The Dorado-1 discovery in July and August 2018 resulted in the Company's share price appreciating some 380% before settling at a 52 week increase over 200%.

The consequential impact on Carnarvon's market capitalisation resulted in the Company being included in ASX 300 index.

Following the Dorado-1 well, Carnarvon estimated the recoverable contingent resources in Dorado alone at 283 million barrels of oil equivalent (mmboe) (Gross 2C, CVN 20%)¹.

ORDINARY SHARES ON ISSUE	1,343 million
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MARKET CAPITALISATION	\$712 million
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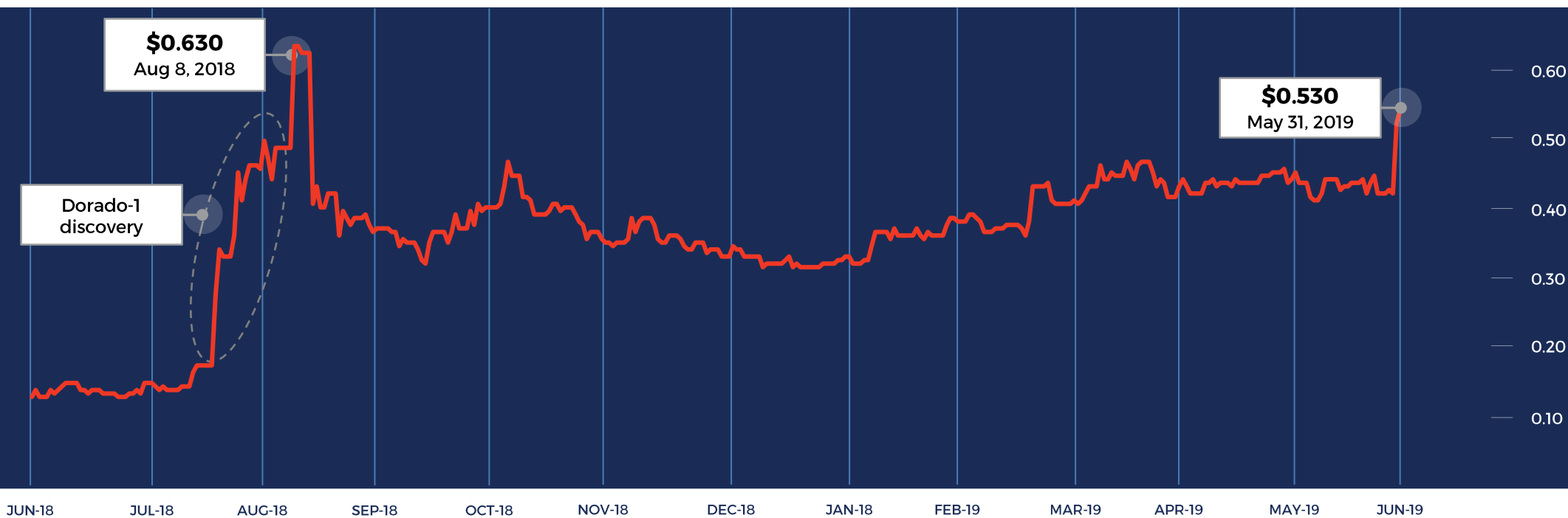
CASH (AS OF 31 MAR 2019)	\$93 million
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DEBT	NIL
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Contingent resources net	108 mmboe ¹
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ASX:CVN

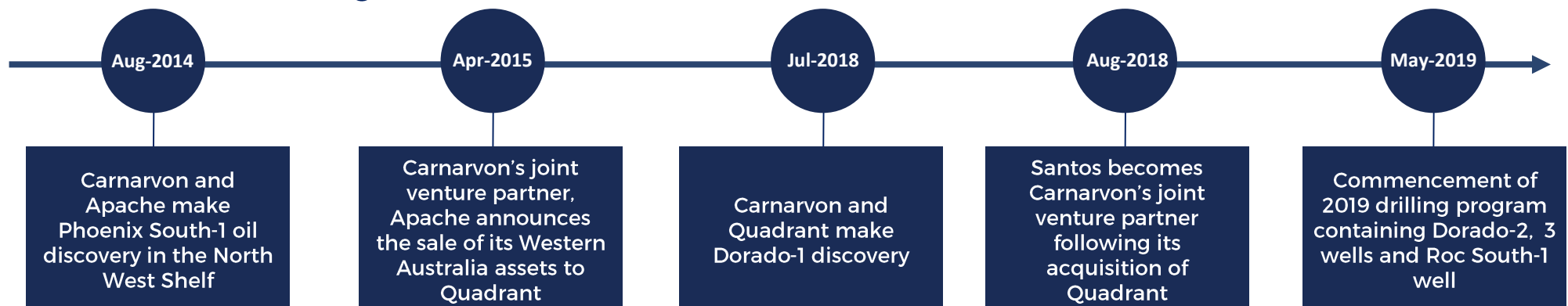
1. Refer to resource information contained in annexure slides



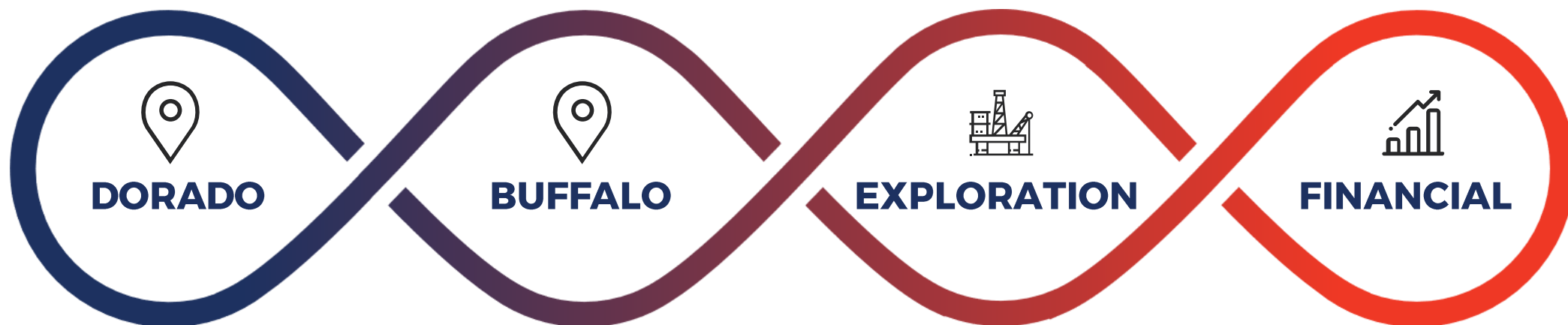
Background of Carnarvon Petroleum

- 1 ASX-listed oil & gas exploration company focused on the North West Shelf, offshore Western Australia including the Carnarvon, Browse and Bonaparte Basins and Bedout Sub-basin
- 2 20% interest in the world class Dorado offshore discovery with an estimated gross 2C resource of 283 mmboe¹
 - Represents a new play type of high quality oil, gas and condensate located in multiple stacked, high quality sandstone reservoirs trapped by a shale channel
- 3 20-30% interests in four permits covering the Bedout Sub-basin that contains a number of other similar prospects within tie-back distance to Dorado
 - Co-owned and operated by Santos (70-80% interest)
- 4 100% interest in the Buffalo redevelopment project with an estimated 31 mmbbl¹ of 2C oil resources in the attic of a previously accessed reservoir

Timeline of key events



Core business streams



- Exciting appraisal well program and field development planning scheduled for 2019.
- Program to build on the existing value in the light oil & gas discovery.
- Final Investment Decision in late 2020 for oil field development.

- Drilling first well targeted in mid 2020 after key milestones completed.
- First well to confirm the oil volumes and then progress into the development phase in 2021.
- First oil production targeted for 2022/23.

- Continue to build a quality portfolio of highly attractive drill ready prospects using extensive technical expertise and a substantial database focused on the North West Shelf.
- Carnarvon currently has a high quality prospect inventory.

- Increasing per share value is the principal financial objective of the Company, whilst maintaining strong financial discipline.
- Carnarvon's success to date has been self generated through new discoveries of oil and gas.

Portfolio

North West Shelf focus

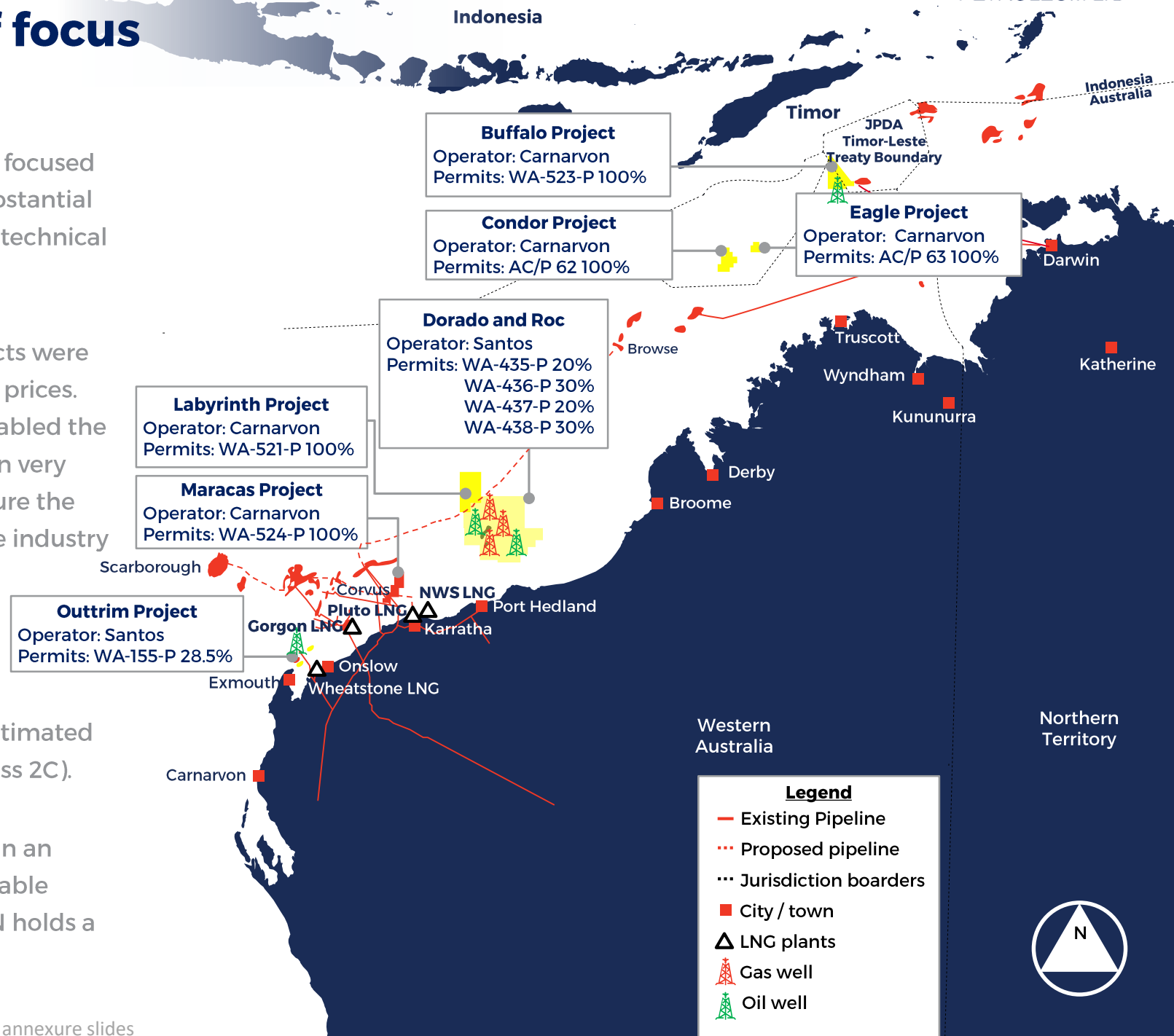
Carnarvon has a North West Shelf focused strategy that leverages its very substantial database and highly experienced technical work force.

The majority of Carnarvon's projects were secured during a period of low oil prices. This counter cyclical approach enabled the company to secure the projects on very low commitment terms and mature the projects for partner farm-in, as the industry sentiment improved.

The Buffalo project contains an estimated 31 mmbbls¹ of oil recoverable (Gross 2C).

Dorado and Roc combined contain an estimated 362 mmboe¹ of recoverable resources (Gross 2C) of which CVN holds a 20% interest.

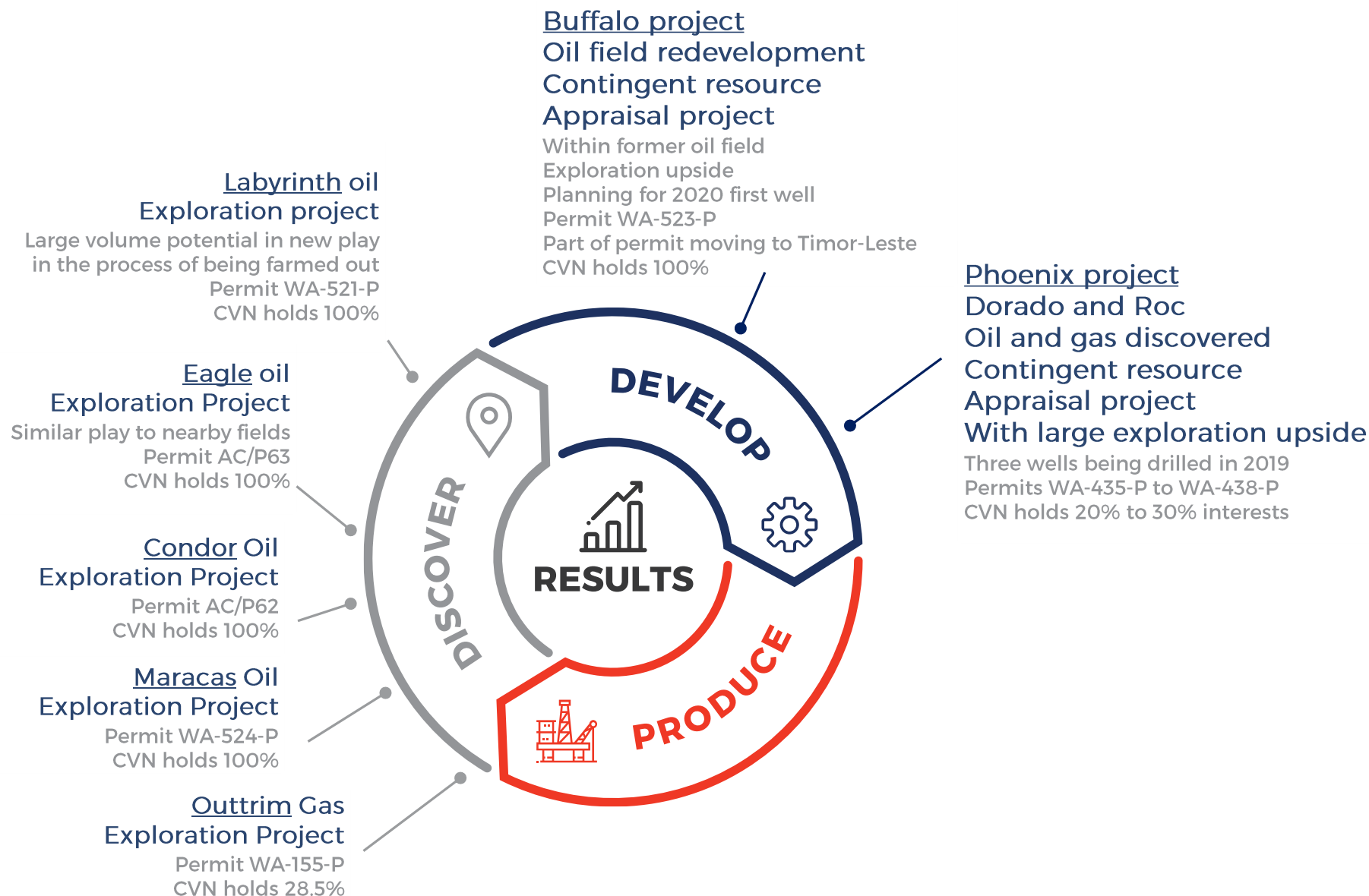
1. Refer to resources information contained in annexure slides



- 1** Currently appraising a world-class oil discovery
- 2** Working on a broad range of development, appraisal and exploration positions
- 3** Operating in a prolific oil and gas province which has seen in excess of US\$200 billion development capital invested since 2009
 - Broad range of majors and international independents active across the North West Shelf
 - Extensive existing infrastructure that could be relevant to both oil and gas resource development
- 4** Future development could focus on both liquids and gas resources
 - Gas resources could be commercialised through both the domestic market and existing LNG facilities
- 5** Principal partner, Santos, has a large Western Australia asset portfolio with a broad range of proximate infrastructure
- 6** Range of significant near-field exploration prospects now de-risked

Project overview

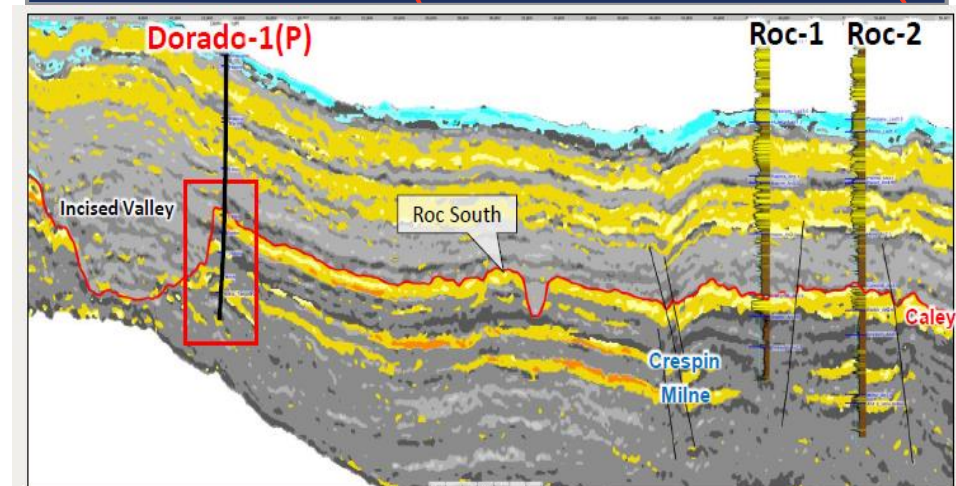
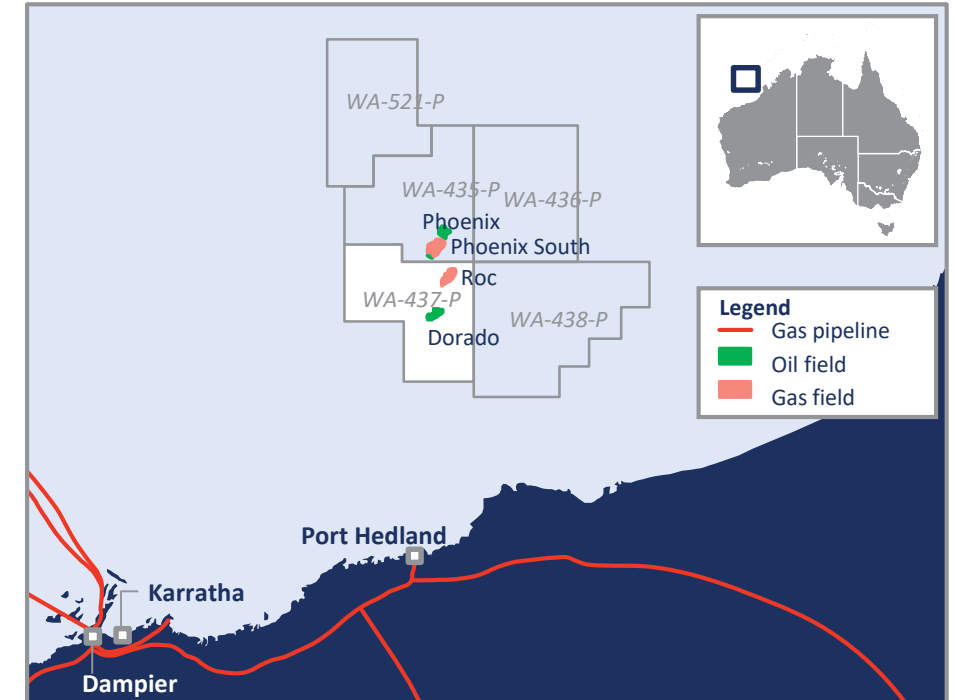
growth generated organically through exploration



Overview of Dorado

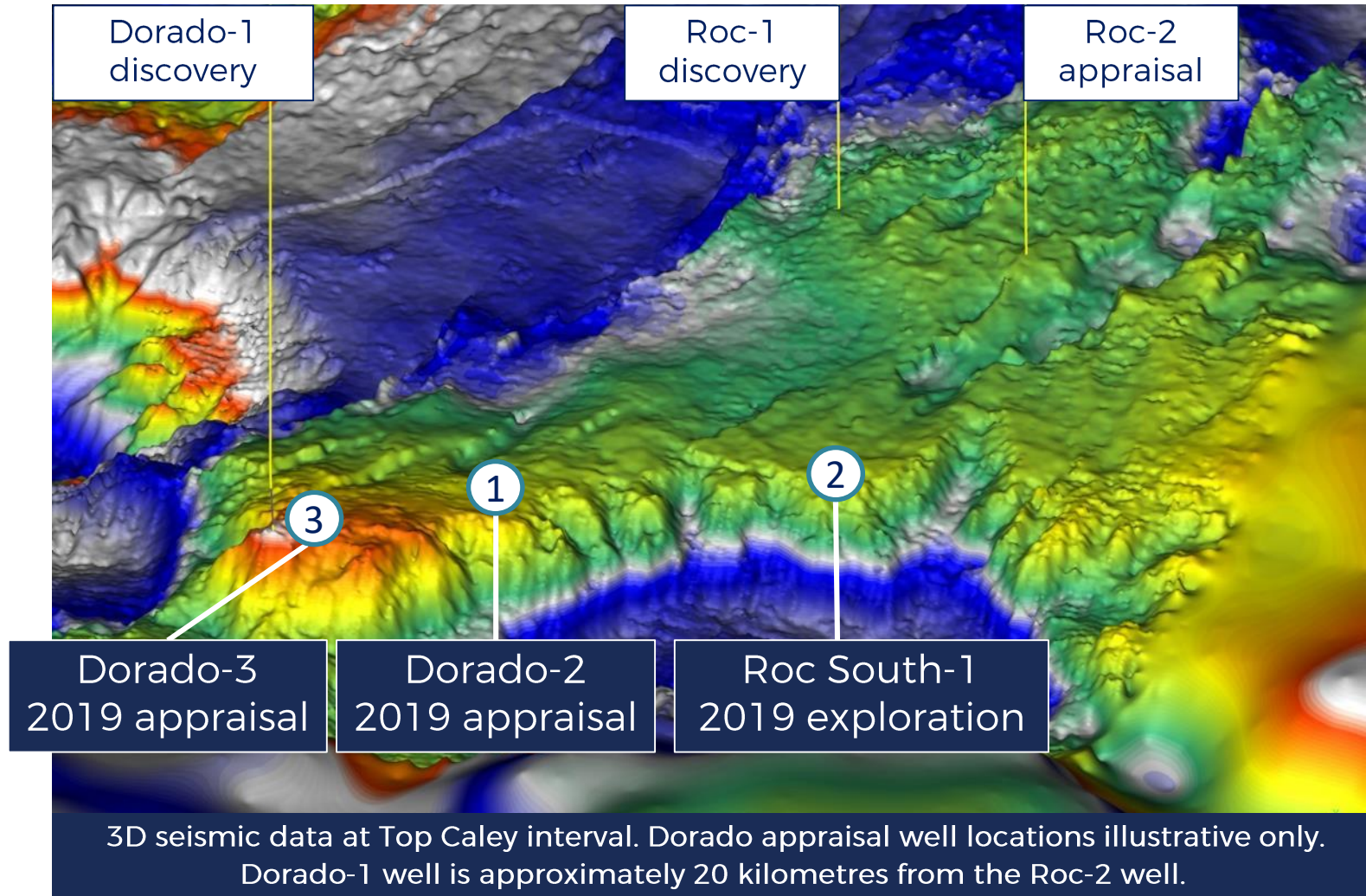
targeting oil production in a phased development

- 1 Significant oil discovery located 110 km from shore in the underexplored Bedout Sub-basin
- 2 3rd largest oil discovery in the North West Shelf with gross 2C oil resources of 171 mmbbl¹
- 3 Shallow water depth of around 70m to 100m and the quality reservoirs are expected to simplify oil field designs
- 4 Oil analysed at around 50° API in Dorado-1 with negligible impurities
- 5 Significant upside gas/condensate development potential with gross 2C gas/condensate resources of 112 mmboe¹
- 6 Dorado-2 & 3 appraisal wells and Roc South-1 exploration well will be comfortably funded from Carnarvon's cash
- 7 FID on the oil field development is expected late 2020
- 8 The Dorado discovery has also unlocked a series of near-field tie-back prospects in the Bedout Sub-basin



1. Refer to resources information contained in annexure slides

2019 drilling Dorado & Roc South wells de-risking for development & adding scale



Roc

commercial flow rates near Dorado

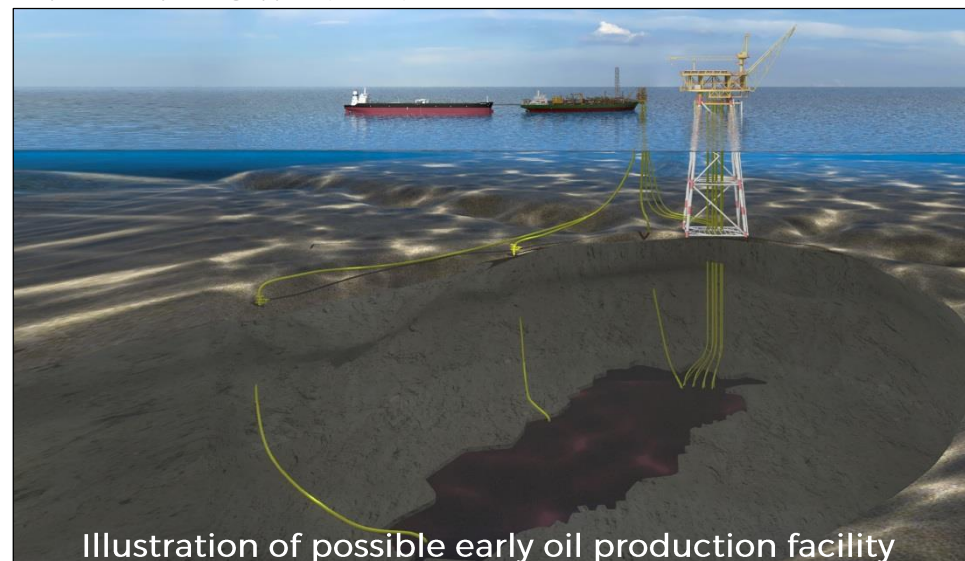
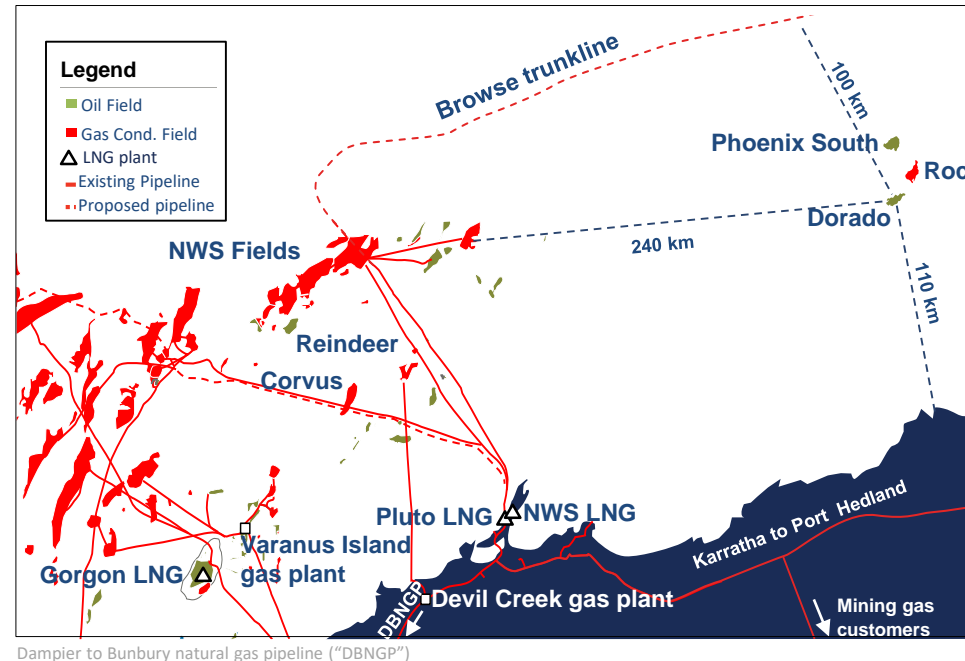


Photo of the Roc-2 well flowing at commercial rates on test in late 2016
Flow rates of 53 mmscf/d and 3,000 barrels of condensate per day were at maximum test equipment capacity
The Roc-2 well bore is approximately 20 kilometres from the Dorado-1 well bore (within tie back distance).

Dorado & Roc

a significant resource in a full field context

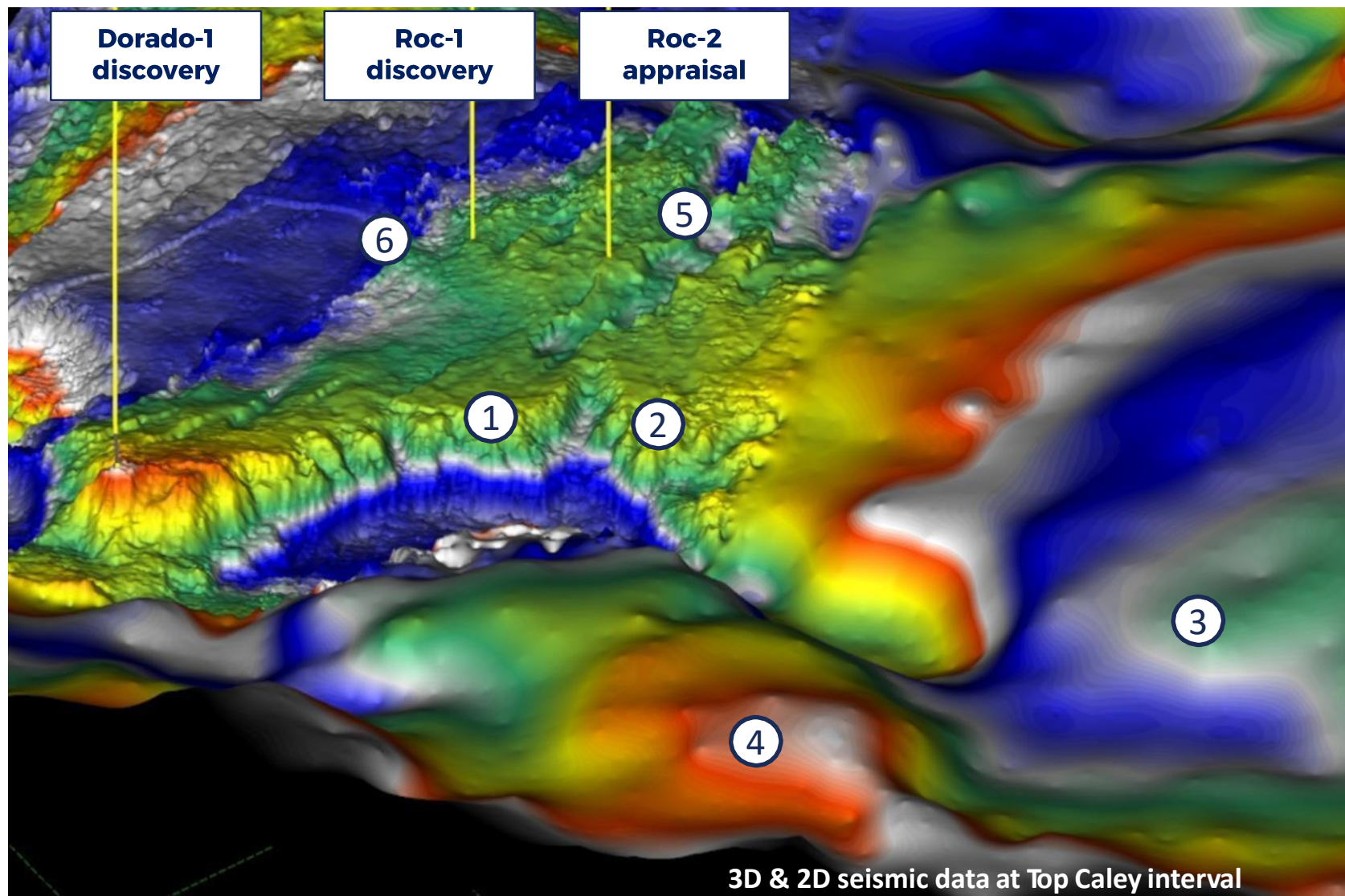
- 1 The Dorado base case is to produce oil first and generate more timely cash flows
- 2 Large 2C gross resources of 362 mmbœ (including Roc) expected to support a long asset life
- 3 A full field development (stage II) will add gas and condensate production to the early oil production
- 4 Competitive cost per boe expected due to shallow water, near gas infrastructure & support services
- 5 Similar play types nearby being progressed including Roc South drilling in mid 2019
- 6 Production hub at Dorado would enable tie back of other resources over time



Dorado & Roc

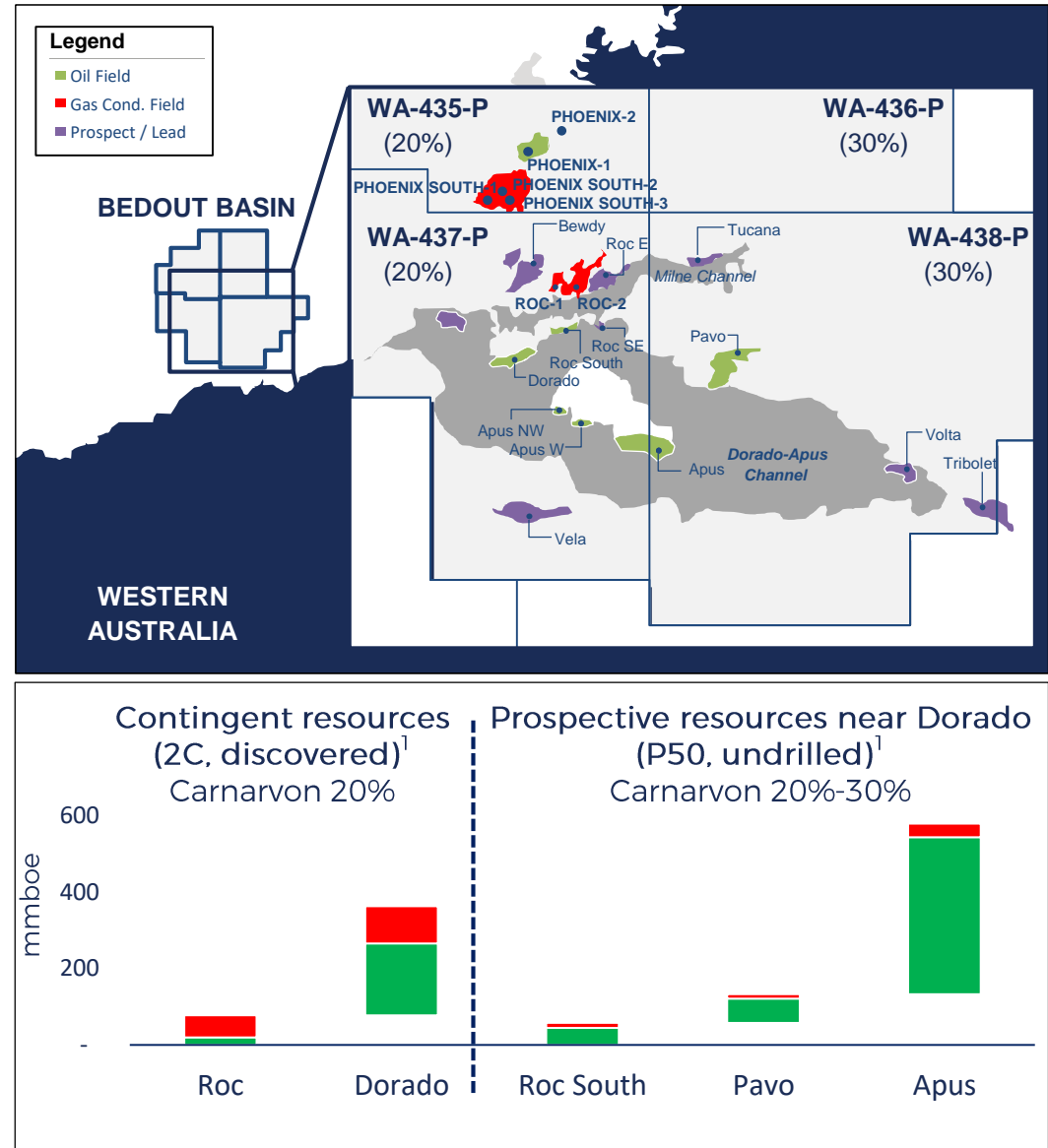
near-field opportunities within tie back distance

- ① Roc South
- ② Roc South East
- ③ Pavo
- ④ Apus
- ⑤ Roc Satellites
- ⑥ Bewdy & Bottler



Advancing near field prospects opportunities being enhanced with new 3D seismic

- 1 A new 3D seismic survey commenced in May 2019
- 2 The seismic survey is being conducted over the discovered resources of Dorado and Roc
- 3 The survey will also cover a large number of near field prospects and leads to facilitate further assessment and possible exploration drilling, including the Roc South, Pavo and Apus targets
- 4 Targeted to be completed in August 2019 with fast track processing expected to result in the first technical interpretation to commence in early 2020
- 5 Work on the data will initially be development focused, particularly in respect of the oil development and production from the Caley reservoir in the Dorado field



1. Refer to resource information contained in annexure slides

Buffalo highlights

low risk redevelopment of former oil field

1 Proven oil field

- 50,000 barrels of oil per day (bopd) flowed from the first two wells in 1999 (BHP operator)
- 20 million barrels produced from four wells between 1999 and 2004
- 4,000 bopd were still flowing when production stopped in 2004

2 Low risk

- Planned wells will re-enter the former producing area of the oil field
- Additional oil is expected from newly mapped attic within the field
- The greatest risk is expected to be the quantum (not presence) of oil

3 Field re-development

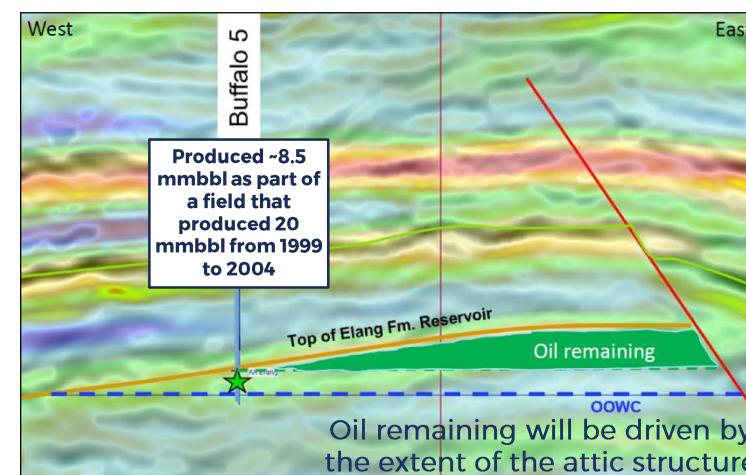
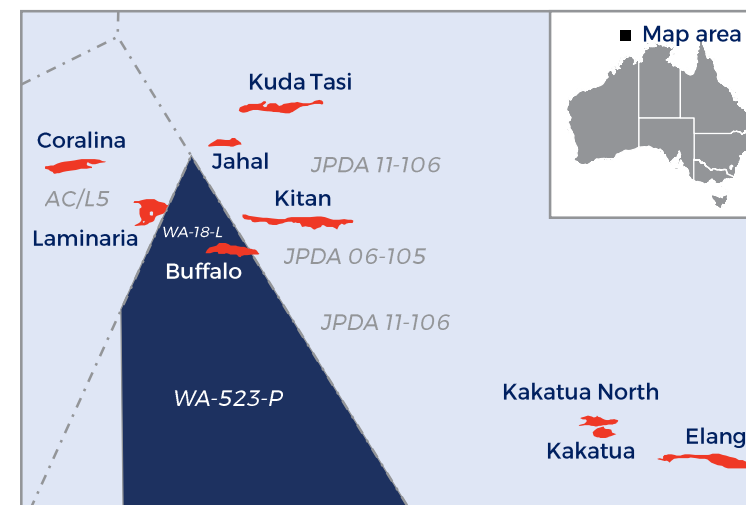
- 31 million barrels of recoverable oil on a best estimate basis¹
- 40,000 bopd initial flow rate modelled from three wells
- A conventional well head platform development with flowlines supplying a leased FPSO

4 Low cost

- Low capital and operating costs due to shallow 25m water depths and conventional facilities infrastructure²
- Plan to lease some of the infrastructure to keep upfront capital to a minimum

5 Forward plan

- Production Sharing Contract has now been drafted
 - Execution expected Q3/4, 2019
- Complete planning & approvals to drill the first well in 2020
- Investigating partnering to assist with financing the drilling and development activities



1. Refer to resource information contained in annexure slides

2. Based on Carnarvon's pre-field development plan & independent studies commissioned by Carnarvon Petroleum

Buffalo oil field expected to be a short cycle high yield asset

Carnarvon
actioning

- 1 PSC in Timor-Leste
- 2 Licence to drill – Environmental plan to drill up to three wells is now approved
- 3 Well funding

Photos from BHP's operations between 1999 and 2004



WELL HEAD PLATFORM



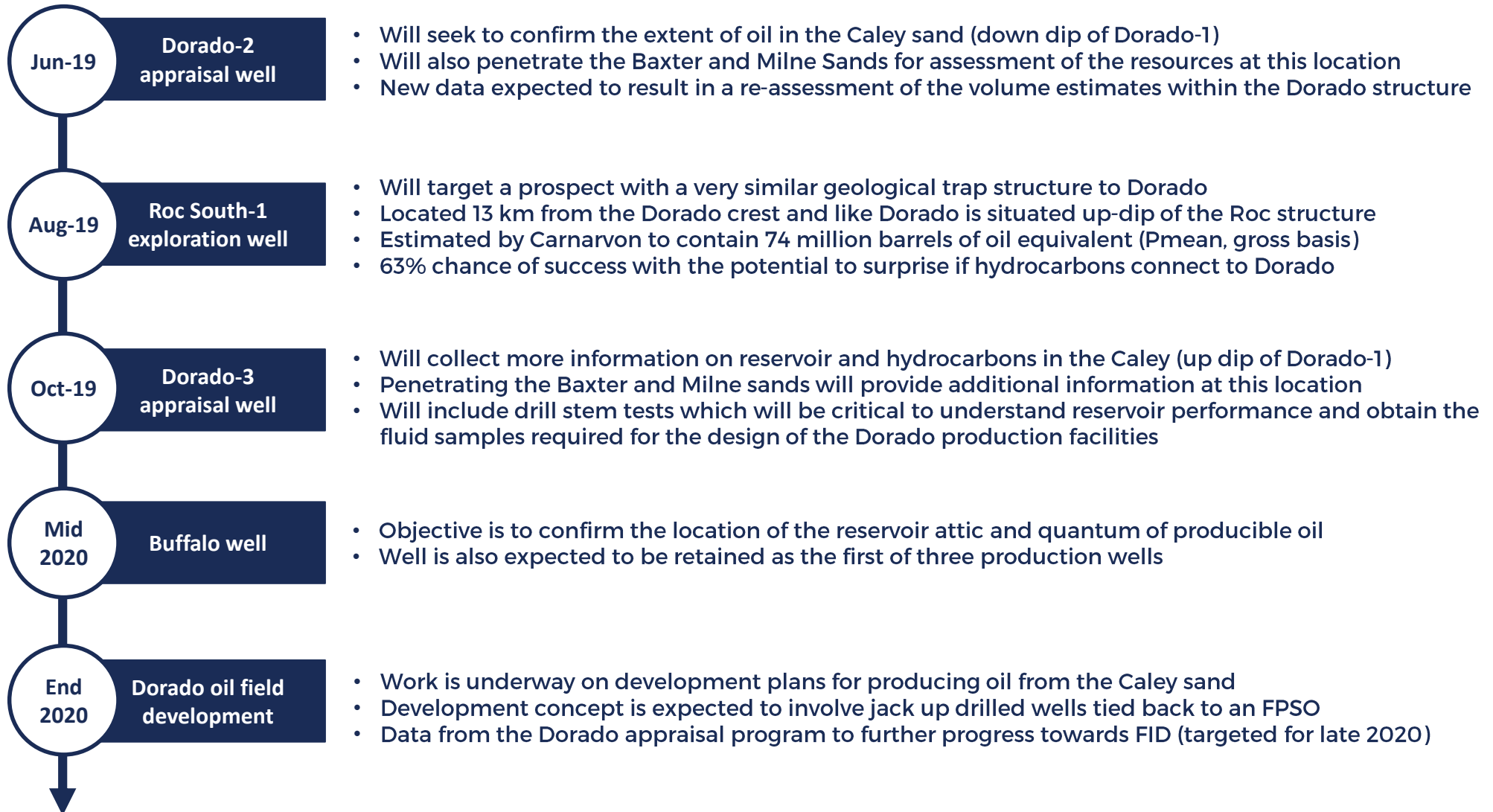
FLOATING PRODUCTION STORAGE & OFFLOADING VESSEL

Catalysts

over next 12-18 months

	DETERMINING RESOURCE SIZE	SUPPORTING DEVELOPMENT	RESULTS TIMING
Dorado-2 appraisal well	✓	✓	Jun 2019
Roc South-1 exploration well	✓		Aug 2019
Dorado-3 appraisal well		✓	Oct 2019
Buffalo well	✓	✓	Mid 2020
Dorado oil field development		✓	End 2020

Catalysts over next 12-18 months



ANNEXURE INFORMATION



Oil & gas volume summary

Contingent resources

Gross Resources (100% basis)

	Light Oil			Natural Gas			Condensate			Barrels of Oil Equivalent		
	MMbbl			BCF			MMbbl			MMboe		
	1C	2C	3C	1C	2C	3C	1C	2C	3C	1C	2C	3C
Dorado	82	171	320	229	552	1,197	6	16	36	128	283	566
Roc	-	-	-	205	332	580	12	20	35	48	78	137
Phoenix South	7	17	30	-	-	-	-	-	-	7	17	30
Phoenix	2	7	16	-	-	-	-	-	-	2	7	16
Phoenix Project Sub-Total	91	195	366	434	884	1,777	18	36	71	185	385	748
Buffalo	15	31	48	-	-	-	-	-	-	15	31	48

Net Resources (CVN's share)

	Light Oil			Natural Gas			Condensate			Barrels of Oil Equivalent		
	MMbbl			BCF			MMbbl			MMboe		
	1C	2C	3C	1C	2C	3C	1C	2C	3C	1C	2C	3C
Dorado	17	34	64	46	110	240	1	3	7	26	57	113
Roc	-	-	-	41	66	116	2	4	7	10	16	27
Phoenix South	1	3	6	-	-	-	-	-	-	1	3	6
Phoenix	0	1	3	-	-	-	-	-	-	0	1	3
Phoenix Project Sub-Total	19	39	73	87	176	356	3	7	14	37	77	149
Buffalo	15	31	48	-	-	-	-	-	-	15	31	48
Total	34	70	121	87	176	356	3	7	14	52	108	197

Oil & gas volume summary

Selected prospective resources

Gross Resources (100% basis)

	Light Oil				Natural Gas				Barrels of Oil Equivalent				Pg
	MMbbl				BCF				MMboe				%
	P90	P50	Mean	P10	P90	P50	Mean	P10	P90	P50	Mean	P10	
Roc South	9	45	56	118	15	76	100	217	12	59	74	156	63%
Pavo	11	63	82	179	3	31	108	249	11	68	101	223	34%
Apus Caley ⁱ	12	91	125	279	3	44	163	373	12	98	154	344	21%
Apus Baxter ⁱ	6	52	105	278	2	27	139	302	6	57	129	331	21%
Apus Crespini ⁱ	7	103	161	391	2	48	212	474	7	111	198	474	21%
Apus Milne ⁱ	32	163	221	483	8	82	291	654	34	177	272	598	21%
Phoenix Project Total	77	517	750	1728	32	308	1013	2269	82	571	928	2126	

Net Resources (CVN's share)

	Light Oil				Natural Gas				Barrels of Oil Equivalent				Pg
	MMbbl				BCF				MMboe				%
	P90	P50	Mean	P10	P90	P50	Mean	P10	P90	P50	Mean	P10	
Roc South	2	9	11	24	3	15	20	43	2	12	15	31	63%
Pavo	3	19	25	54	1	9	32	75	3	20	30	67	34%
Apus Caley ⁱ	2	18	25	56	1	9	33	75	2	20	31	69	21%
Apus Baxter ⁱ	1	12	24	63	-	6	31	68	1	13	29	74	21%
Apus Crespini ⁱ	2	25	39	96	1	12	52	116	2	27	49	116	21%
Apus Milne ⁱ	8	41	55	121	2	21	73	164	8	44	68	149	21%
Phoenix Project Total	18	124	179	412	7	72	241	540	20	136	221	507	

(i) Note Apus prospect lies across WA-437-P and WA-438-P in which Carnarvon has 20% and 30% equity respectively

Board of Directors



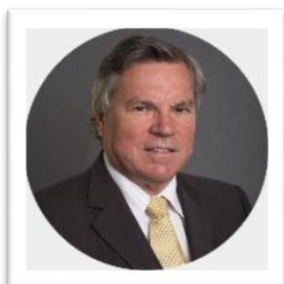
CHAIRMAN

PETER LEONHARDT



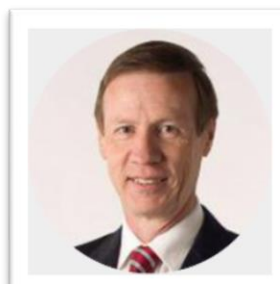
MANAGING DIRECTOR

ADRIAN COOK



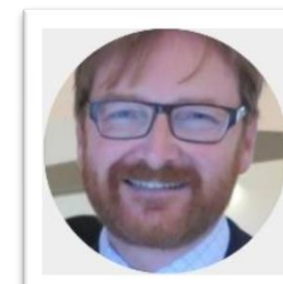
INDEPENDENT NED

WILLIAM (BILL) FOSTER



INDEPENDENT NED

DR PETER MOORE



INDEPENDENT NED

GAVIN RYAN

Management team



CEO

ADRIAN COOK

- 25+ years experience in finance, primarily in the petroleum industry
- Former Managing Director of ASX Listed O&G explorer, Buru Energy Limited and Fellow of the Australian Institute of Company Directors



COO

PHILIP HUIZENGA

- 25+ years experience in O&G industry as petroleum engineer
- Member of: Society of Petroleum Engineers, Industry Advisory Council to the Dept of Petroleum Engineering at Curtin University



CFO

THOMSON NAUDE

- Chartered Accountant with 10+ years experience in financial management
- Experience in commercial transactions including the divestment of Carnarvon's Thailand production assets

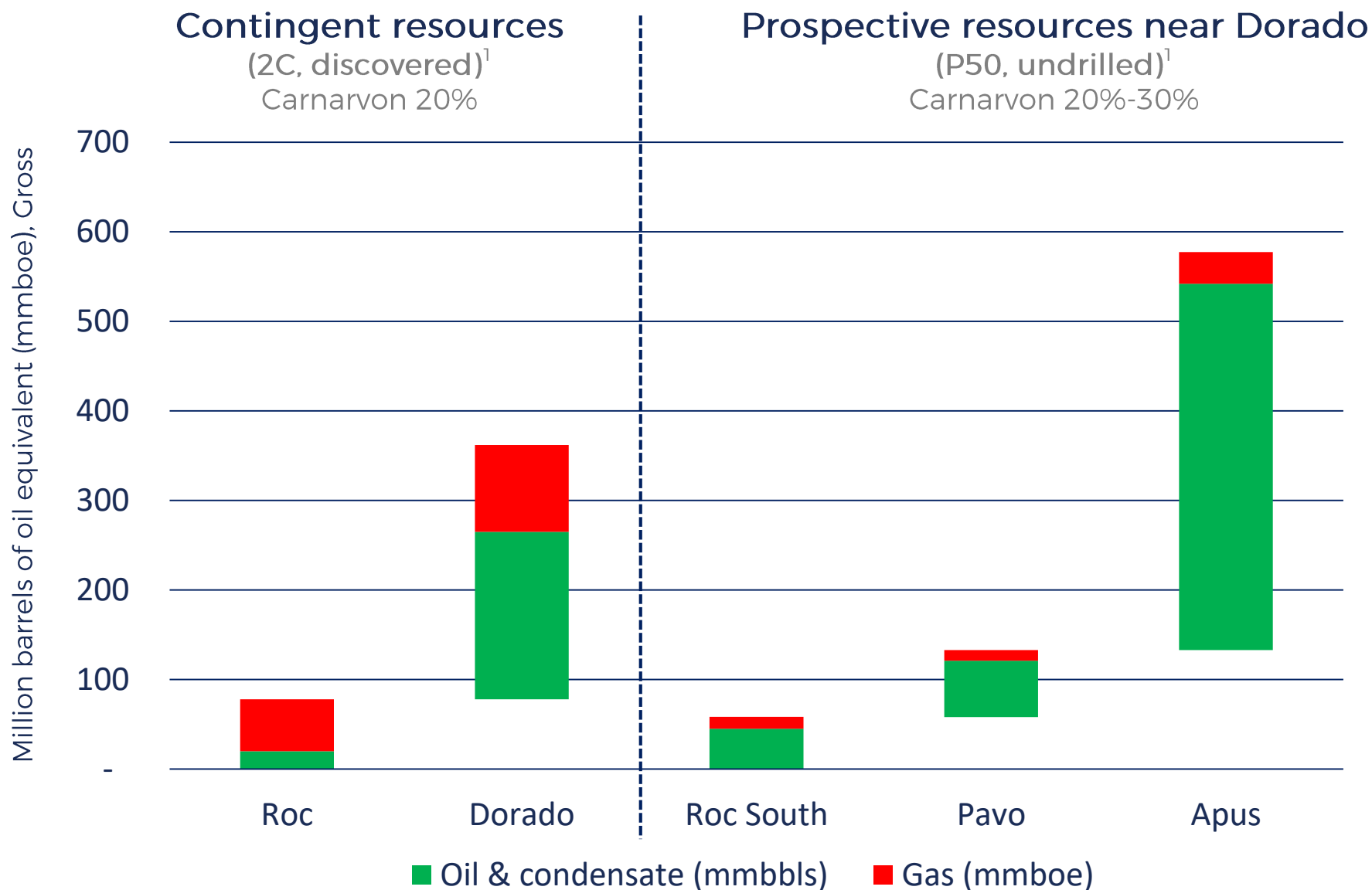


HEAD OF EXPLORATION

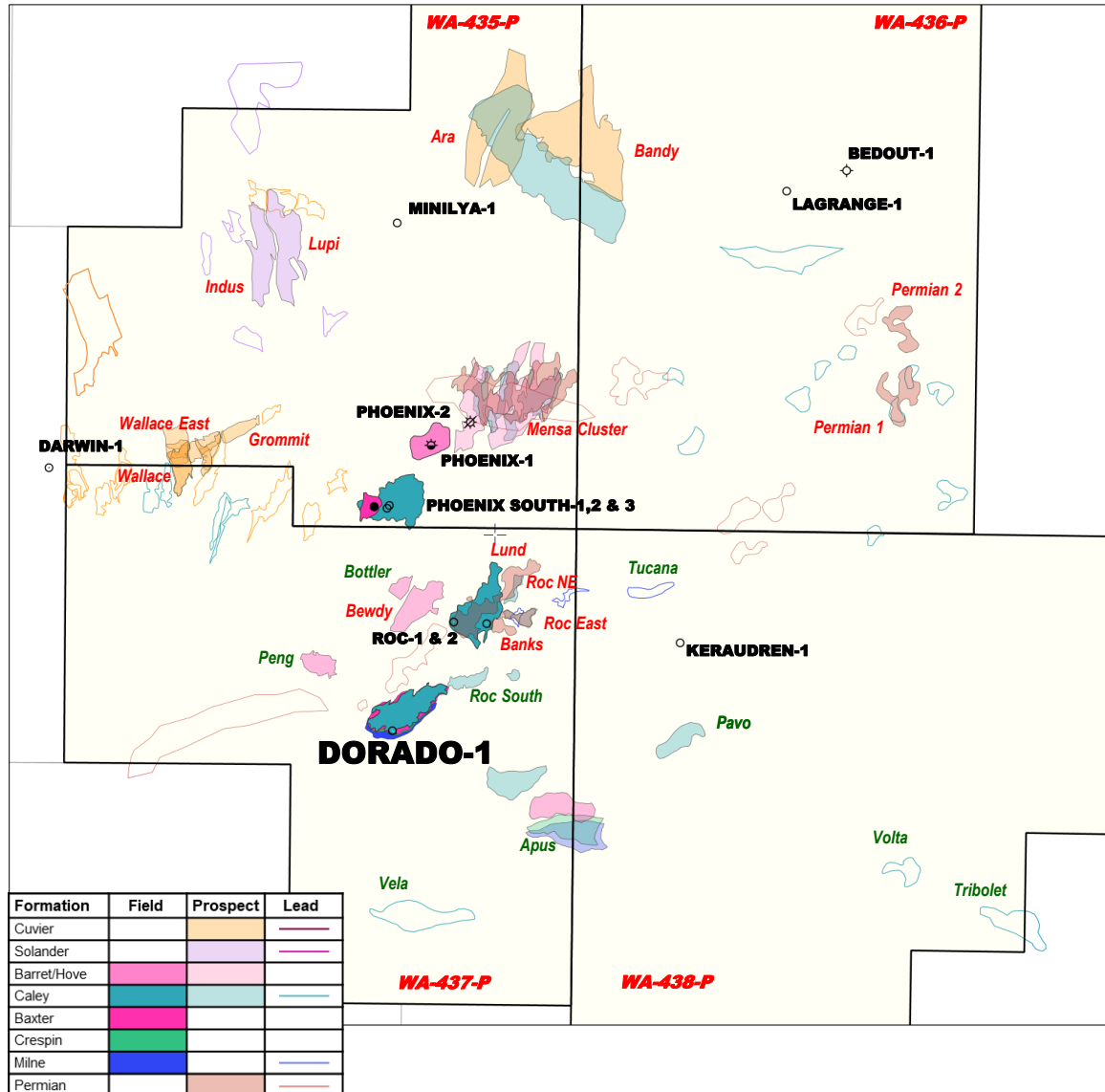
STEPHEN MOLYNEUX

- PhD in Geology and Geophysics from Imperial College London
- 25+ years of experience in O&G exploration, discovered over 5 billion barrels of recoverable oil

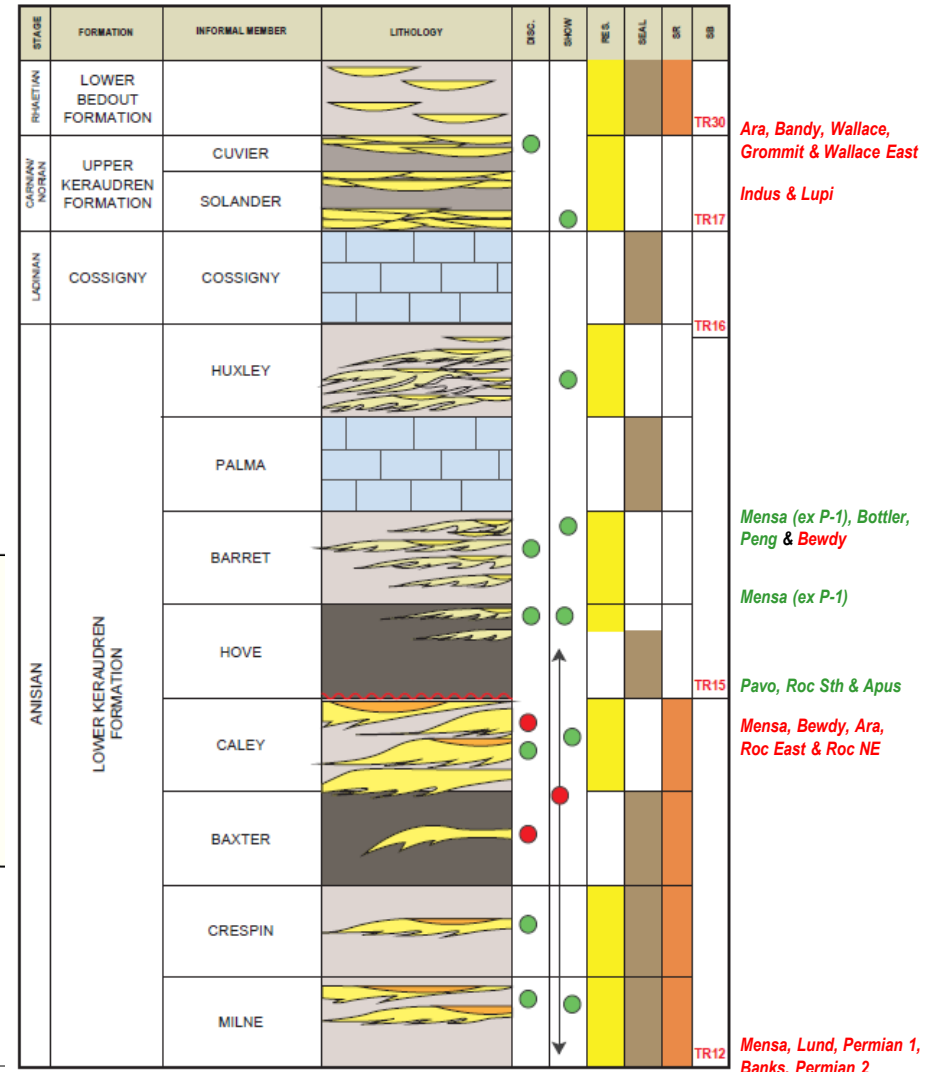
Developing discovered resources & advancing near field prospective resources



Prospect rich basin covered by Carnarvon's four permits

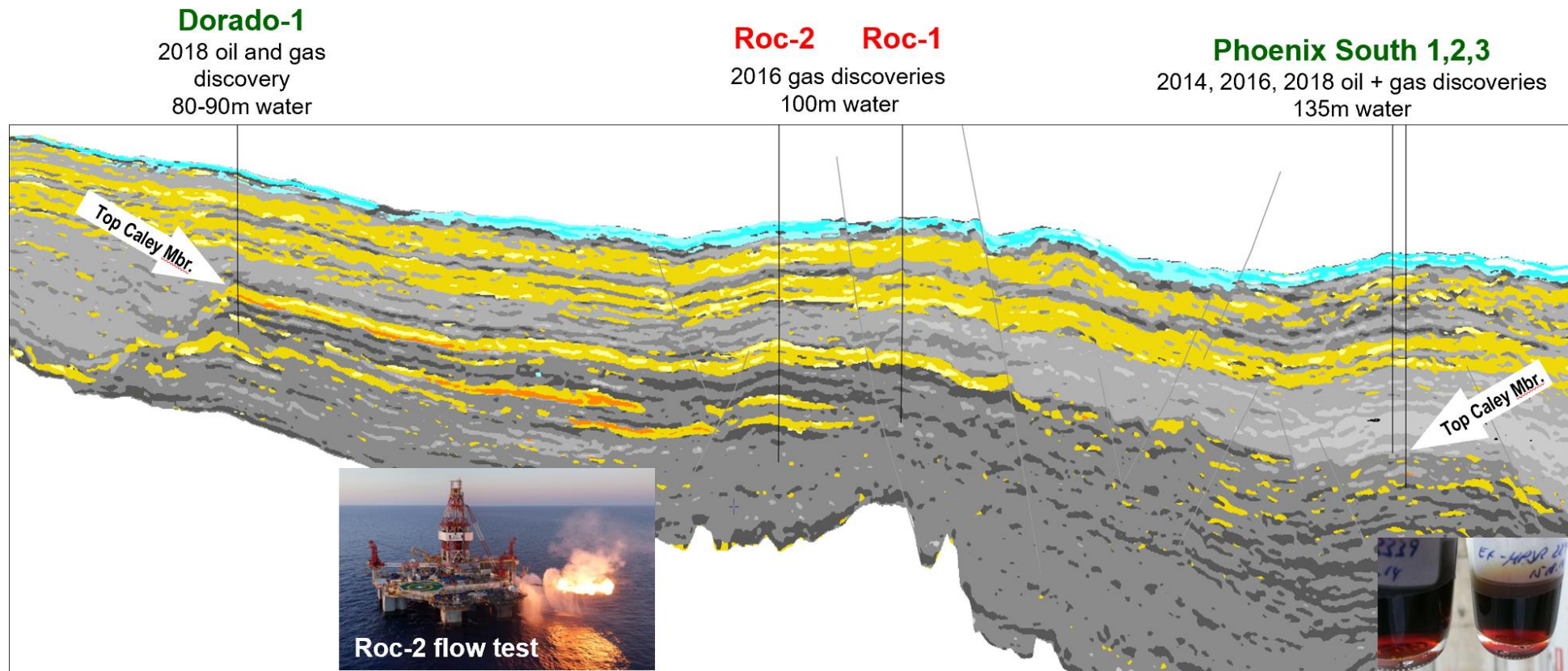


BEDOUT SUB BASIN



3D seismic line

Dorado to Roc to Phoenix South



3D seismic data inversion predicting the presence of reservoir - data courtesy of TGS and DUG



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CARNARVON
PETROLEUM LTD

