



## INVESTOR PRESENTATION AUGUST 2023

Mr Noel Newell Executive Chairman 3D Oil Limited (ASX: TDO)

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## **3D OIL - INVESTMENT SUMMARY**

World-Scale Prospects, Super-Major Joint Venturer, Two funded wells, Attractive Valuation and Pipeline of Catalysts



### Multi-TCF Gas Prospects identified<sup>1</sup>

- Gross Prospective Gas Resource exceeding 12Tcf across 4 license areas
- ~620mmbbls+ Oil & Condensate potential



### Joint Venture already signed with ConocoPhillips Australia

- ConocoPhillips is one of the largest (~US\$140B<sup>2</sup> market cap) independent E&P companies
- ConocoPhillips Australia has signed two deals to carry 3D Oil in two wells for a cost of up to ~\$100M<sup>3</sup>



### **Rig selected to drill two firm exploration wells**

- Environment Plan will seek approval for the drilling of up to six exploration wells in permits VIC/P79 and T/49P
- Letter of Award for the Transocean Equinox semisubmersible rig to drill two (2) firm exploration wells



### 3D Oil's market capitalisation remains sub \$15M<sup>4</sup>

- With nil debt and just 265.4M shares on issue
- Compared to Net prospective resources (MMBOE) of 1,249 (Best Estimate (Recoverable))<sup>1</sup>

### Transformational next 24 months ahead, attracting industry interest



- JV will generate pipeline of news flow over next 1-2 years and is attracting significant interest from gas suppliers and buyers
- Experienced management has identified, proven up and farmed out VIC/P79 and T/49P to a Super Major. Ability to repeat

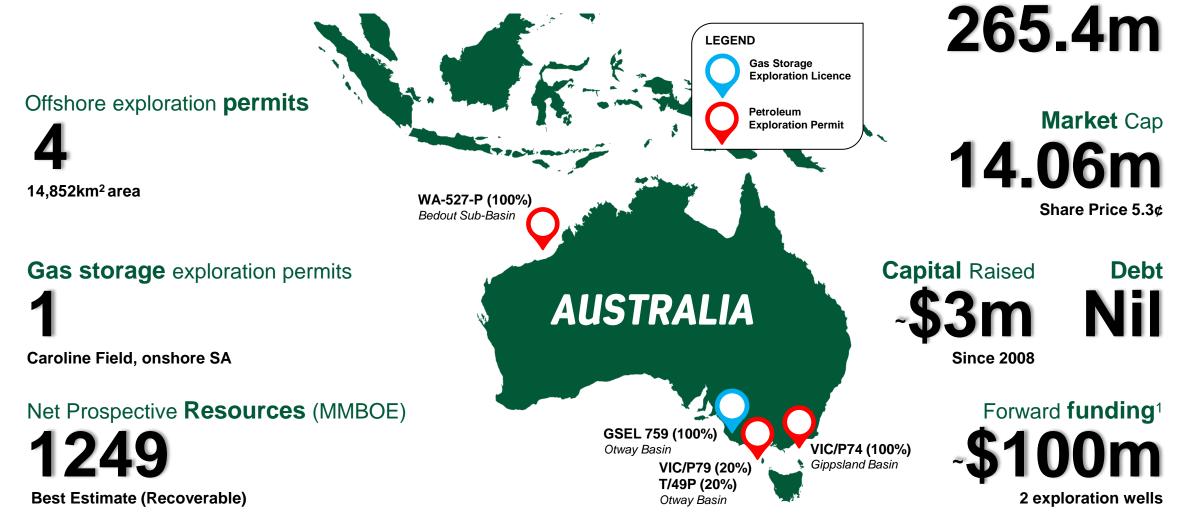
One exploration well carry for up to US\$35m, one optional carry for up to US\$30m



Shares on Issue

## **COMPANY OVERVIEW**

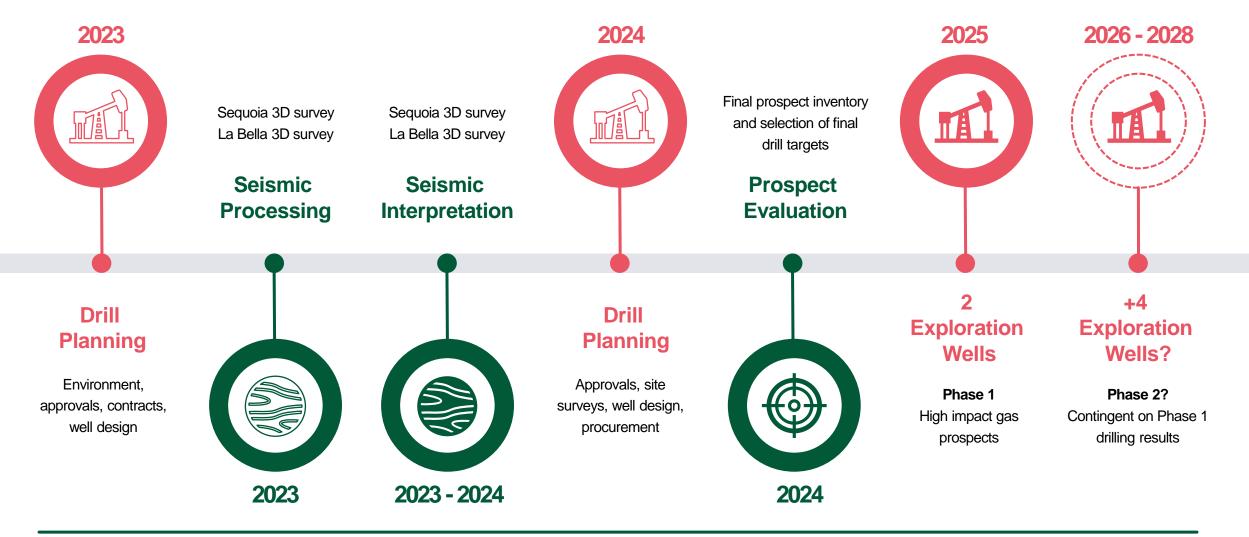
A highly experienced operator with a large high-impact portfolio of offshore Australian exploration permits.





## PATHWAY TOWARDS COMMERCIALISATION

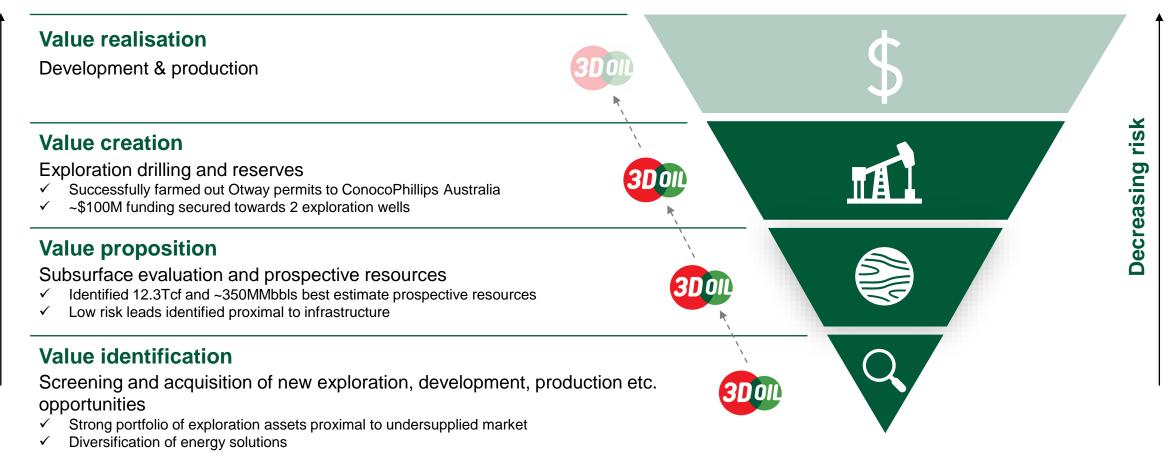
The Joint Venture is rapidly progressing towards drilling in 2025.



## **3D OIL IS CLIMBING THE VALUE CHAIN**

3D Oil is progressing its work programs by attracting key joint venturers to realise value for shareholders.

Traditional value lift pyramid for oil and gas companies







# VICTORIA IS RAPIDLY DEPLETING ITS NATURAL GAS RESERVES...

Victoria's demand for gas is higher than any other state

### Some applications of natural gas

- Electricity generation (supporting emissions reduction)
- ✓ Heating / Cooling (hospitals etc.)
- ✓ Manufacturing (bricks, glass, packaging, paper etc.)
- ✓ Agriculture (fertilisers etc.)

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The projected shortfall for Victoria in 2027 cannot be supplied by other jurisdictions because there is a projected shortfall of gas across all of Australia's southern states in 2027.

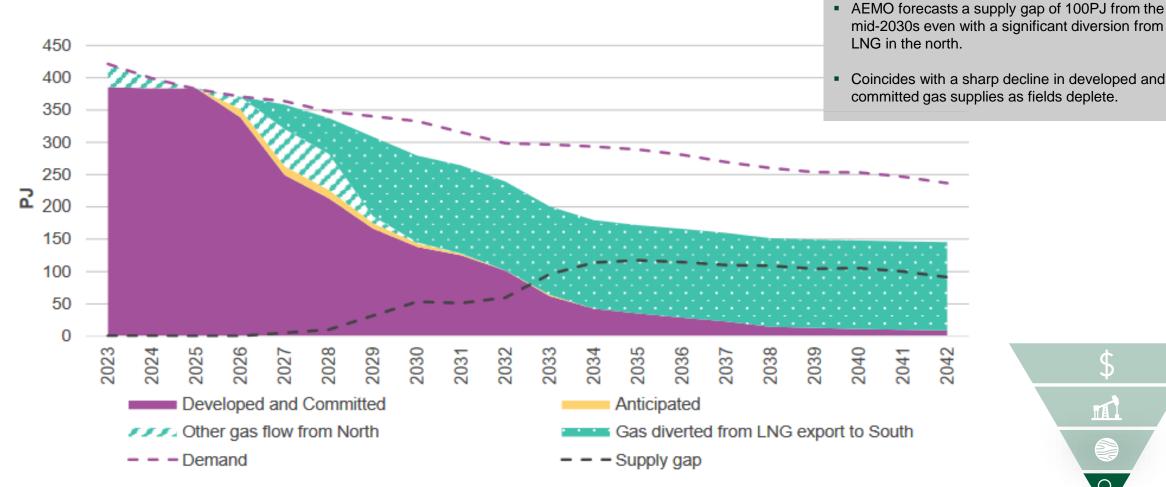
UNLESS NEW SUPPLY IS DEVELOPED, VICTORIA IS FORECAST TO BECOME A NET IMPORTER OF GAS FROM WINTER 2027

2023 AEMO Victorian Gas Planning Report



## THE OPPORTUNITY – EAST COAST GAS DEMAND IS STRONG

All evidence points to strong future demand for east coast gas.

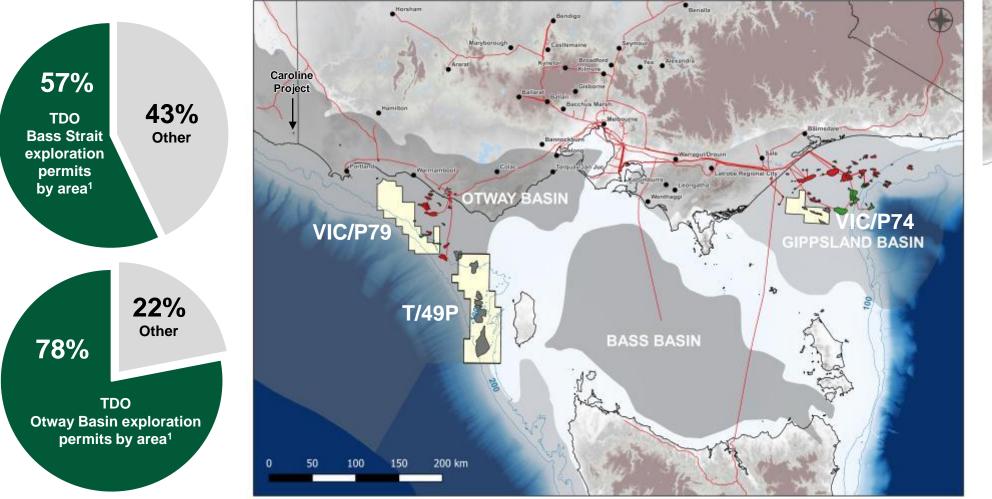


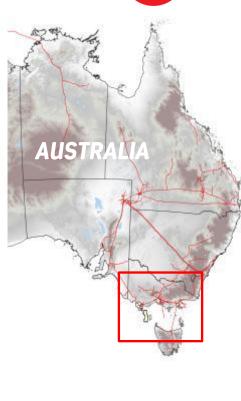
Projected annual gas supply adequacy in southern regions – Orchestrated Step Change (1.8deg C) scenario, 2023 – 42 (PJ) Source: AEMO - 2023 Gas Statement of Opportunities

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## **3D OIL PROXIMAL TO EAST COAST GAS MARKET / INFRASTRUCTURE**

3D Oil is a significant player in Australian offshore east coast gas exploration.







(1) Based on area of offshore exploration permits. Current as of February 2023.





# 3D OIL HAS A STRONG PORTFOLIO OF GAS PROSPECTS

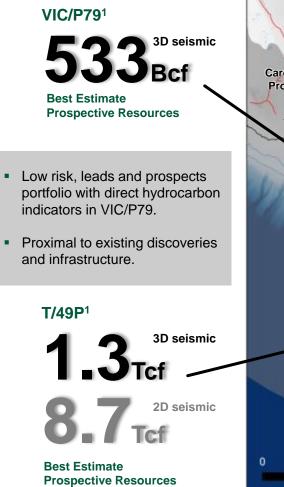


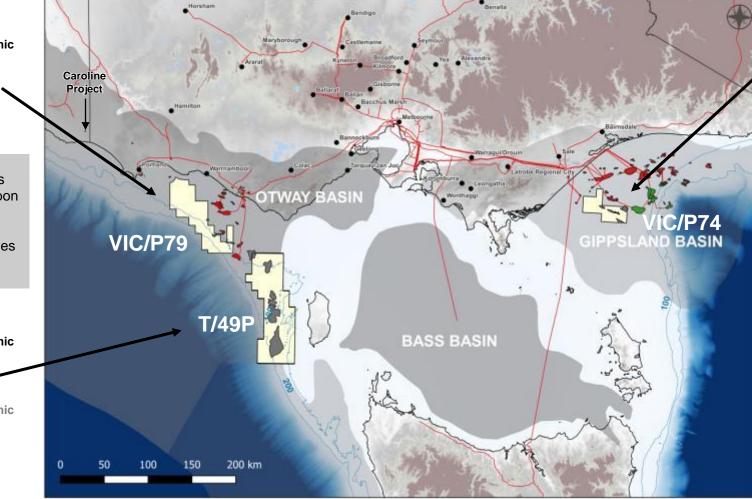
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## SIGNIFICANT PROSPECTIVE RESOURCES

12 Tcf gross prospective resource have been identified in 3D Oil exploration permits across Bass Strait.







Best Estimate Prospective Resources

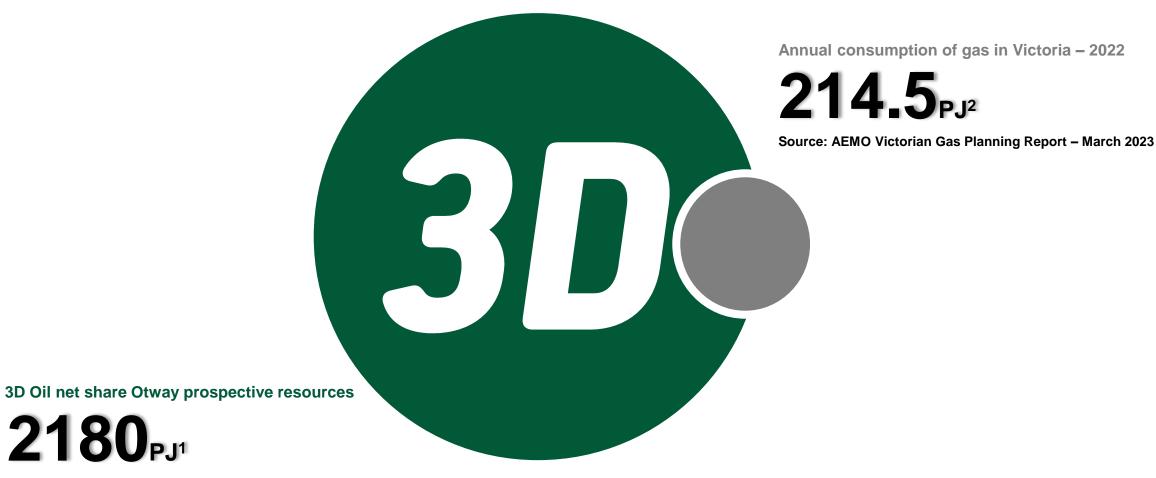
- Gas production rapidly declining as fields deplete in mature basin.
- Located on the fringe of a prolific hydrocarbon province.





## **3D OIL PROSPECTIVE RESOURCES IN CONTEXT**

12 Tcf gross prospective resource have been identified in 3D Oil exploration permits across Bass Strait.



Based on 20% share of VIC/P79 and T/49P best estimate prospective resources

(1) PJ (unit of measurement of energy consumption)

(2) Source: AEMO Victorian Gas Planning Report – March 2023

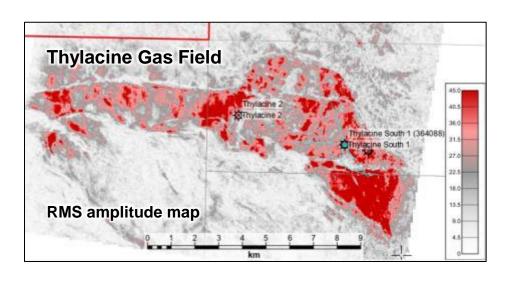


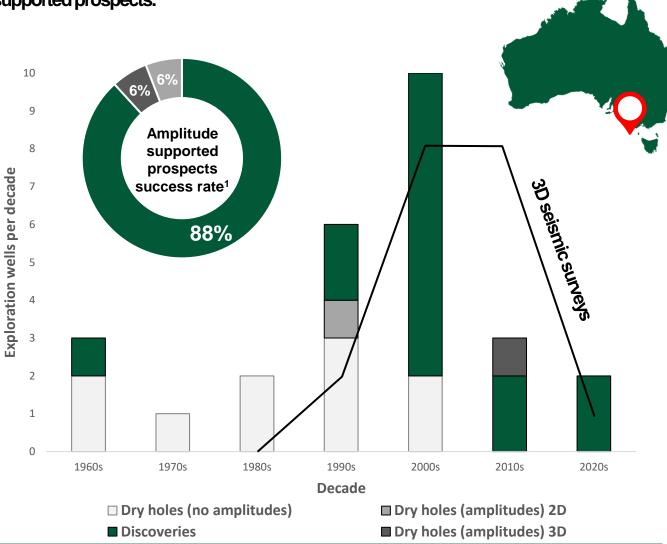
## HIGH SUCCESS RATE DRILLING SEISMIC AMPLITUDES IN THE OTWAY BASIN

Otway Basin has an outstanding success rate drilling amplitude supported prospects.

### 88% success rate drilling amplitude supported prospects

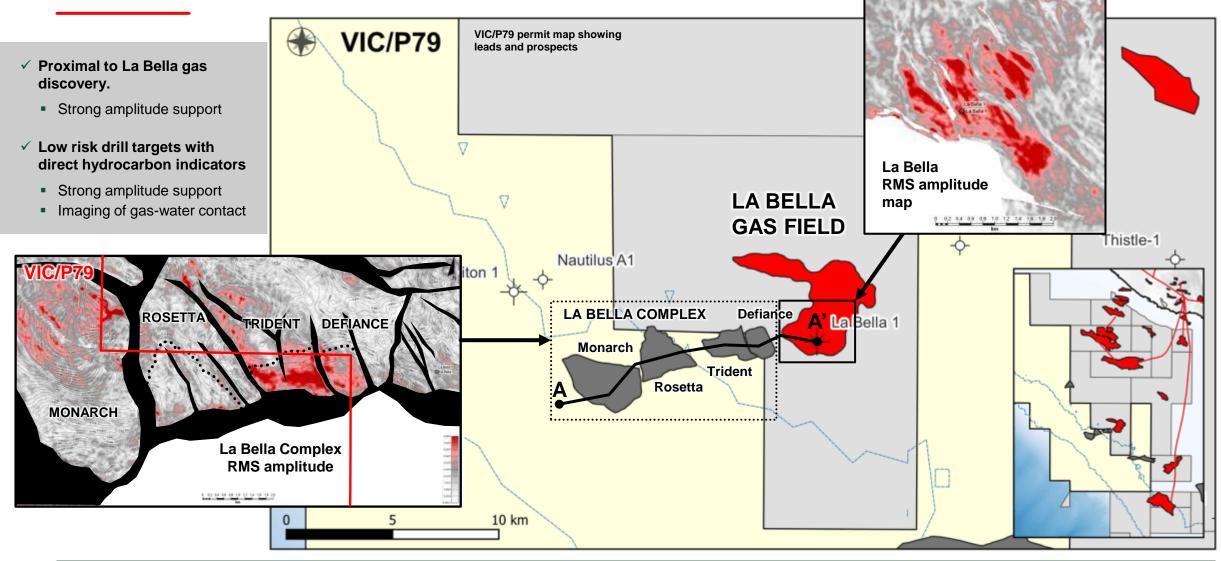
- Many early exploration failures targeting non-amplitude supported prospects.
- Only 1 dry hole targeting amplitude supported leads in the last 20+ years (prospect has poor amplitudes).
- Success rates tied to increasing application of good quality 3D seismic.







## **RIGHT LOCATION – LOW RISK DRILL TARGETS**



## **RIGHT LOCATION – SEISMIC AMPLITUDE SUPPORTED PROSPECT INVENTORY**



Cross section A-A' through the La Bella Complex LA BELLA 1 VIC/P79 VIC/P73 A' Α LA BELLA COMPLEX ✓ Proximal to La Bella gas discovery. Monarch Strong amplitude support **Belfast Mudstone (Seal)** DEFIANCE ✓ Low risk drill targets with direct hydrocarbon indicators ROSETTA Strong amplitude support TRIDENT Waarre C Imaging of gas-water contact mWaarre A Fault manth MONARCH Otway Group Fault Defiance Rosetta Trident Fault ROSETTA TRIDENT DEFIANCE **Flat spot indicates** gas-water contact Fault MONARCH 2km Gas discovery Non-amplitude supported (poor data) Amplitude supported Reservoir 0.000000000000



## **RIGHT LOCATION – PROXIMAL TO INFRASTRUCTURE**

✓ High value drill targets are proximal to existing infrastructure

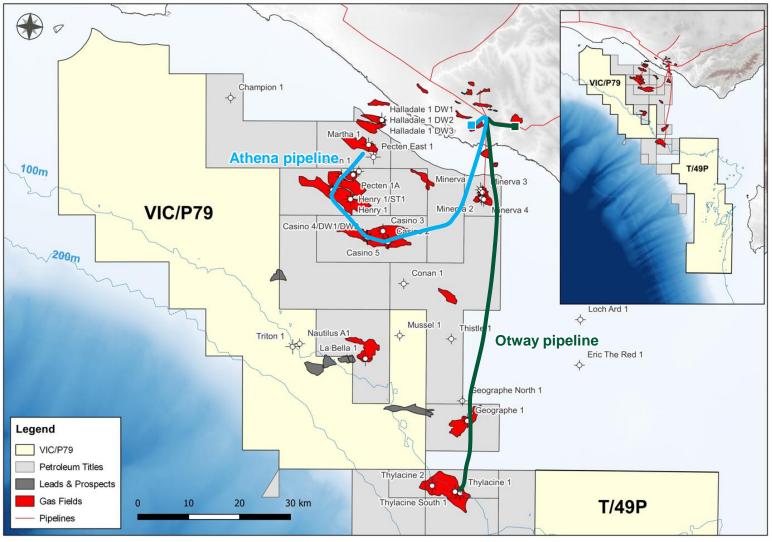
### ✓ Otway Gas Plant

- Operated by Beach Energy
- Connects Thylacine/Geographe and Halladale/Speculant gas fields
- Daily capacity: 205 TJ/d
- Current utilisation: up to 174TJ/d, Q3 FY23 avg 117TJ/d<sup>1,2</sup>
  - Recently connected 4 new Thylacine development wells
  - Thylacine West 1 and 2 not yet connected
  - Enterprise connection targeting first gas mid-FY24<sup>2</sup>

### ✓ Athena Gas Plant

- Operated by Cooper Energy
- Casino/Henry/Netherby gas fields
- Daily capacity: 150 TJ/d
- Current utilisation: ~25 TJ/d<sup>1,3</sup>
  - Option to drill subsea development wells as part of FY25 Otway drilling program





(1) AEMO Gas Bulletin Board

(2) Beach Energy FY23 Fourth Quarter Activities Report



# **PARTNERED FOR SUCCESS**

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**3D OIL HAS ESTABLISHED JOINT VENTURES WITH CONOCOPHILLIPS AUSTRALIA IN THE OTWAY** 



## **DELIVERABILITY – STRONG EAST COAST JV ESTABLISHED**

3D Oil has developed a strong Joint Venture with one of the world's leading oil and gas exploration, development and production companies.

### Who is ConocoPhillips (NYSE: COP)?

- One of the world's largest independent exploration and production (E&P) companies based on production and proved reserves.
- COP explores for, produces, transports and markets crude oil, bitumen, natural gas, natural gas liquids and liquefied natural gas on a worldwide basis.
- Operations and activities across 13 countries.
- First established operations in Australia nearly 20 years ago.

### **ConocoPhillips Australia**

- Holds 47.5% shareholding interest in Australia Pacific LNG (APLNG).
- Operator of APLNG's export facility on Curtis Island.
- APLNG supplies ~30% of the Australian east coast domestic gas market.
- Plans to assume upstream operatorship of APLNG<sup>1</sup>.



Curtis Island APLNG Facility



# **ConocoPhillips** Australia

Our JV with ConocoPhillips Australia has many benefits for 3D Oil.



Farmout deals: cash, seismic, wells



**Operational synergies between Otway permits** 



Risk management



World class operator



**Experience delivering commercial projects** 



Access to world class expertise, systems, processes



ConocoPhillips has the capital to rapidly progress projects



# TRANSOCEAN EQUINOX RIG HAS BEEN CONTRACTED

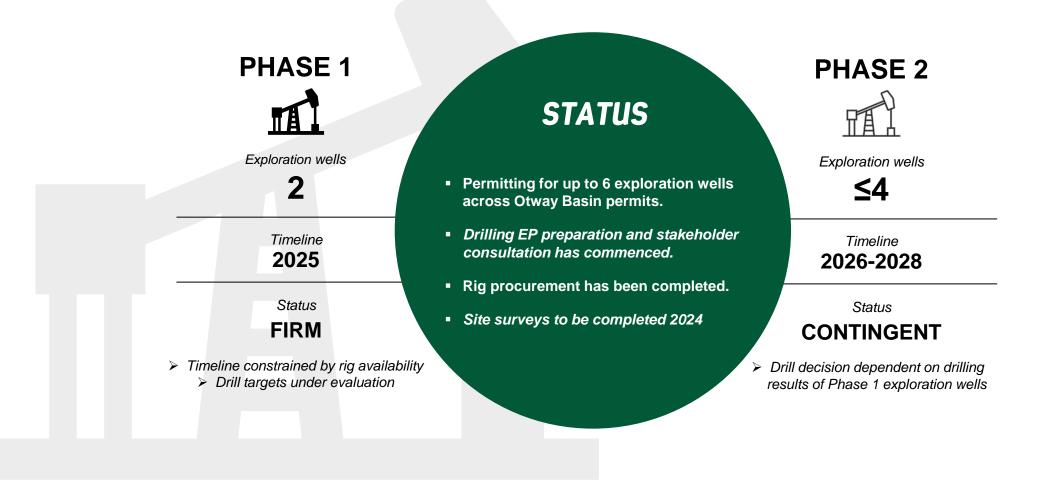
OTWAY EXPLORATION DRILLING PROGRAM

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Photo credit: Ola Moen (marinetraffic.com)

## **OTWAY EXPLORATION DRILLING PROGRAM**

2025 exploration drilling program largely funded by Joint Venture partner ConocoPhillips Australia<sup>1</sup>.

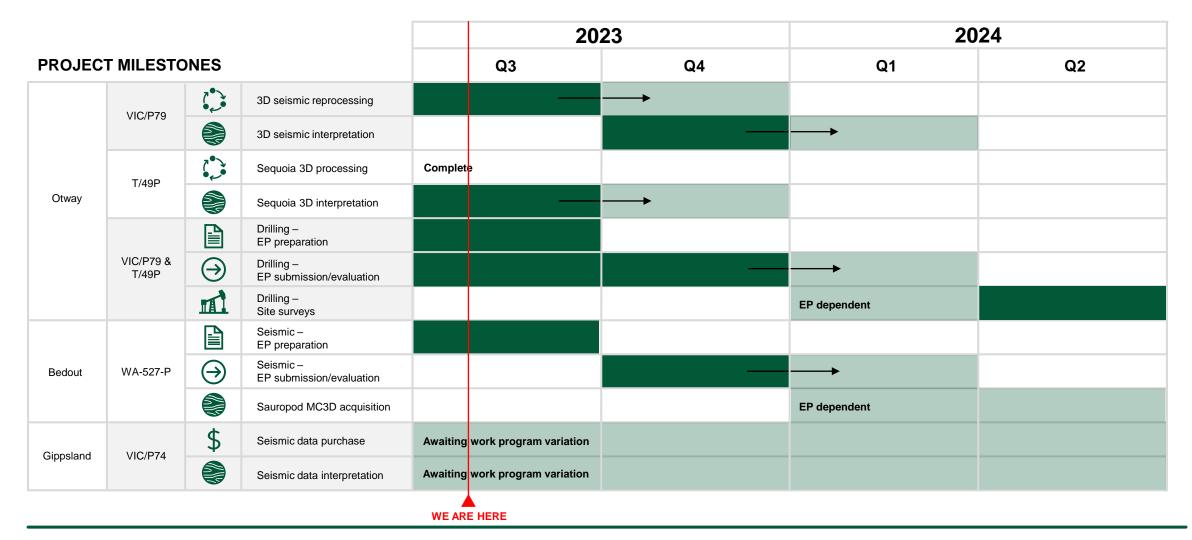






## FORWARD MILESTONES

3D Oil is progressing its work programs to realise value for shareholders.



### NORTHWEST SHELF: WA-527-P – BEDOUT SUB-BASIN



### LEGEND WA-527-P Petroleum Titles Sauropod MC3D EP area Rowlev Gas field Sub-Basin Oil field **Broome** Dorado/Apus Channel Platform WA-527-P channel system ate Jurassic Leads ROEBUCK Early Jurassic Leads 3000 Triassic Leads BASIN Triassic channel erosional remnant Bedout Paleozoic Leads Salamande La Grange 1 Minilya 1 Bedout Beagle Sub-Basin Sub-Basin Phoenix 2 Whaleback 🖌 Manaslu 1 Phoenix 1 Phoenix Sou Jaubert oenix South 3 Phoenix South 2 Keraudren 1 Pay **Extension of** Middle Triassic **Middle Triassic** Apus 1 channel system channel system? Lambert Shelf 0 25 75 km

### WA-527-P permit and existing leads relative to gas condensate and oil discoveries.

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### WA-527-P (100% 3D Oil)

- 3D seismic commitment of 510km<sup>2</sup> (primary term).
- Sauropod MC3D – planning for 2024/2025 acquisition.
- Aims to define prospectivity in the western half of the permit.

### WA-527-P Prospectivity Summary

- Up dip from major gas condensate and oil discoveries.
- Recent Pavo discovery de-risks petroleum system in WA-527-P.
- ~350 MMbbls from 3 leads across Triassic/Jurassic plays.
- One of the largest undrilled structures in the basin (150 km<sup>2</sup>).
- Access to multiple plays potential Dorado analogue play.
- Surrounded by experienced explorers Santos, Carnarvon, CPC Corporation, BP, Finder, Pathfinder etc.

### **Recoverable Oil & Condensate (MMbbls)**

Lead	Low	Best	High
Salamander	57	191	713
Jaubert	17	72	205
Whaleback	16	87	219
Total	90	349	1,138



## <u>OPPORTUNITY</u>



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- High quality exploration portfolio
- Proximal to undersupplied gas market



Outstanding portfolio of potential drill targets with significant prospective resources (12 Tcf gross)



Lower risk near-field exploration

## **DELIVERABILITY**



Strong Joint Venture relationship with ConocoPhillips Australia



~A\$100 million funding towards 2 exploration wells



Established pathway to commercial gas project





## **EXPERIENCED TEAM IN DELIVERING OIL & GAS PROJECTS**

A diverse and highly experienced management team with a proven track record developing and operating significant oil and gas projects.

### Mr Noel Newell Executive Chairman

3D Oil Limited Founder with 20 years as Managing Director and 40 years in the oil and gas business, 20+ years with BHP and Petrofina, as a Principal Geoscientist. Current APPEA board member.



### Mr Ian Tchacos Non-Executive Director

Petroleum Engineer with 30+ years in oil and gas business, 20+ years as an Executive Director or Executive Chairman of ASX listed companies.



### Mr Trevor Slater Non-Executive Director

35+ years as a Director or senior executive developing and operating resource and construction projects within Australia and overseas.



### Mr Leo DeMaria Non-Executive Director

14 years as a Chartered Accountant in the FMCG industry, initially as a Financial Accountant and then as a Commercial Manager.



### NOTES ON PETROLEUM RESOURCE ESTIMATES

### **Prospective Resources**

Under the SPE PRMS 2018, Prospective Resources are "those quantities of petroleum that are estimated, as of a given date, to be potentially recoverable from undiscovered accumulations". Volumes are reported using the terms low estimate, best estimate and high estimate.

The estimates have been prepared by the company in accordance with the definitions and guidelines set forth in the Petroleum Resources Management System, 2011 approved by the Society of Petroleum Engineer. Prospective Resource estimates are for recoverable volumes and unless otherwise stated all petroleum estimates reported are aggregated by arithmetic summation by category. The estimates are unrisked and have not been adjusted for both an associated chance of discovery and a chance of development. 3D Oil uses both deterministic and probabilistic methods for estimation of Prospective Resources.

The estimates of Prospective Resources contained in this presentation are current. The Company is not aware of any new information or data that materially affects the estimates of Prospective Resources, and the material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.

Conversion factors used to evaluate oil equivalent quantities: 1P of natural gas equals 0.171 million boe; 1 barrel of condensate equals 0.935 boe; 1 barrel of crude oil equals 1 boe.

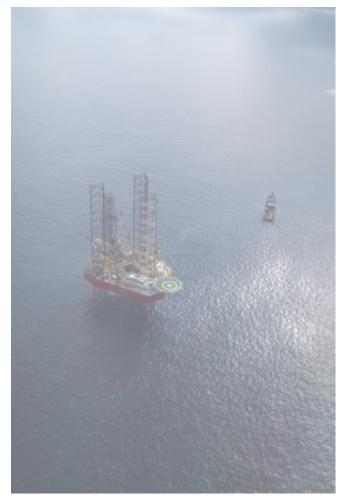
### **Qualified Petroleum Reserves and Resources Evaluator Statement**

The Prospective Resources estimates in this release are based on, and fairly represent, information and supporting documents prepared by, or under the supervision of Dr Daniel Thompson, who is employed full-time by 3D Oil Limited as Chief Geoscientist. He holds a BSc. Hons and PhD in Petroleum Geosciences, has been practicing as a Petroleum Geoscientist for 9 years and is a member of the American Association of Petroleum Geologists (AAPG) and Petroleum Exploration Society of Australia (PESA). Dr Thompson is qualified in accordance with ASX listing rule 5.41 and has consented in writing to the inclusion of the information in the form and context in which it appears.



## **PORTFOLIO SUMMARY**

Gross Prospective Resources (Recoverable)

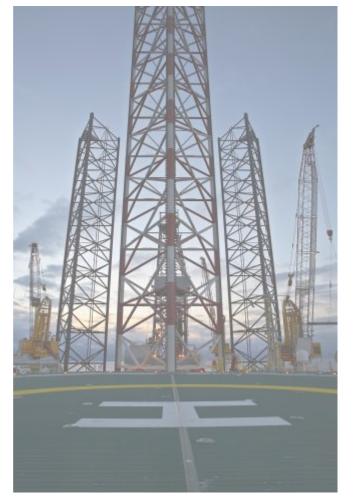


Conversion factors used to evaluate oil equivalent quantities: 1P of natural gas equals 0.171 million boe; 1 barrel of condensate equals 0.935 boe; 1 barrel of crude oil equals 1 boe.

<b>T/49P (20%)</b> Otway Basin	Oil & Condensate (MMbbls)			Gas (Bcf)			Barrels of Oil Equivalent (MMBOE			
	Low	Best	High	Low	Best	High	Low	Best	High	
Flanagan	6.4	16.1	32.8	530	1340	2740	102.1	258.1	527.7	
Seal Rocks	11.4	55.6	127.6	950	4640	10640	183.0	893.7	2049.4	
Whistler Point	9.9	24.5	107.4	820	2040	8950	158.0	392.9	1723.8	
British Admiral	4.5	12.4	53.4	370	1030	4450	71.3	198.4	857.1	
Harbinger	-	-	-	330	790	1430	59.9	143.3	259.4	
Munro (In-permit)	0.5	2.3	6.8	40	190	570	7.7	36.6	109.8	
Total	32.57	110.85	328.03	3,040	10,030	28,780	581.9	1,923	5,527.2	
VIC/P79 (20%) Otway Basin	Oil & Condensate (MMbbls)				Gas (Bcf) Bar			arrels of Oil Equivalent (MMBOE		
	Low	Best	High	Low	Best	High	Low	Best	` High	
Essington	-	-	-	159	246	357	28.8	44.6	64.8	
Rosetta	-	-	-	82	155	249	7.3	10.3	14.5	
Trident	-	-	-	40	57	80	5.1	7.8	11.8	
Defiance	-	-	-	28	43	65	14.9	28.1	45.2	
Lady Robilliard	-	-	-	21	32	51	3.8	5.8	9.3	
Total	-	-	-	118.2	297.7	669.4	59.9	96.7	145.5	
VIC/P74 (100%) Gippsland Basin	Oil & Condensate (MMbbls)				Gas (Bcf) Barrels of Oil Equiva			Oil Equivaler	t (MMBOE	
	Low	Best	High	Low	Best	High	Low	Best	High	
Oarfish	26.7	57.8	127.1	303	544	918	81.7	156.4	293.6	
Bigfin	1.9	17.8	36.5	296	502	783	55.6	108.8	178.5	
Megatooth	31.7	73.0	154.7	259	465	784	78.7	157.3	297	
Stargazer	2.8	11.2	34.6	192	344	564	37.6	73.6	137	
Total	63.2	159.7	352.8	1050	1855	3049	253.6	496.2	906.1	
WA-527-P (100%) Bedout Sub-Basin	Oil & Condensate (MMbbls)				Gas (Bcf)		Barrels of Oil Equivalent (MMBOE			
	Low	Best	High	Low	Best	High	Low	Best	High	
Salamander	57	191	713	-	-	-	-	-	-	
Jaubert	17	72	205	-	-	-	-	-	-	
Whaleback	16	87	219	-	-	-	-	-	-	
Total	90	349	1,138	-	-	-	-	-	-	

## **PORTFOLIO SUMMARY**

Net Prospective Resources (Recoverable)



Conversion factors used to evaluate oil equivalent quantities: 1P of natural gas equals 0.171 million boe; 1 barrel of condensate equals 0.935 boe; 1 barrel of crude oil equals 1 boe.

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	Low	Best	High	Low	Best	High	Low	Best	High
Flanagan	1.3	3.2	6.6	106	268	548	20.4	51.6	105.5
Seal Rocks	2.3	11.1	25.5	190	928	2128	36.6	178.7	409.9
Whistler Point	2.0	4.9	21.5	164	408	1790	31.6	78.6	344.8
British Admiral	0.9	2.5	10.7	74	206	890	14.3	39.7	171.4
Harbinger	-	-	-	66	158	286	12.0	28.7	51.9
Munro (In-permit)	0.1	0.5	1.4	8	38	114	1.5	7.3	22.0
Total	6.5	22.2	65.6	608	2,006	5,756	116.4	384.6	1,105.4
<b>VIC/P79 (20%)</b> Otway Basin	Oil & Condensate (MMbbls)				Gas (Bcf) Barrels of Oil Equivalent (MI				
	Low	Best	High	Low	Best	High	Low	Best	High
Essington	-	-	-	31.8	49.2	71.4	5.8	8.9	13.0
Rosetta	-	-	-	8	11.4	16	1.5	2.1	2.9
Trident	-	-	-	5.6	8.6	13	1.0	1.6	2.4
Defiance	-	-	-	16.4	31	49.8	3.0	5.6	9.0
Lady Robilliard	-	-	-	4.2	6.4	10.2	0.8	1.2	1.9
Total	-	-	-	23.6	59.5	133.9	12.0	19.3	29.1
VIC/P74 (100%) Gippsland Basin	Oil & Condensate (MMbbls)			Gas (Bcf) Barrels of Oil Equivalent (I			nt (MMBOE		
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Oarfish	26.7	57.8	127.1	303	544	918	81.7	156.4	293.6
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Salamander	57	191	713	-	-	-	-	-	-
Jaubert	17	72	205	-	-	-	-	-	-
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Total	90	349	1,138	-	-	-	-	-	-



# **CONTACT US**

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