

# **INVESTOR UPDATE** PRESENTATION





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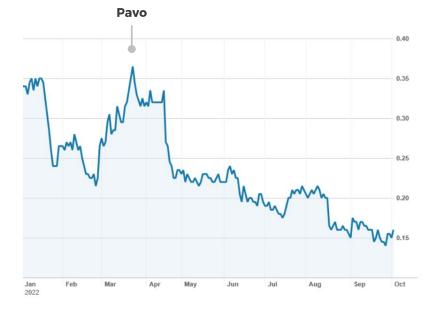
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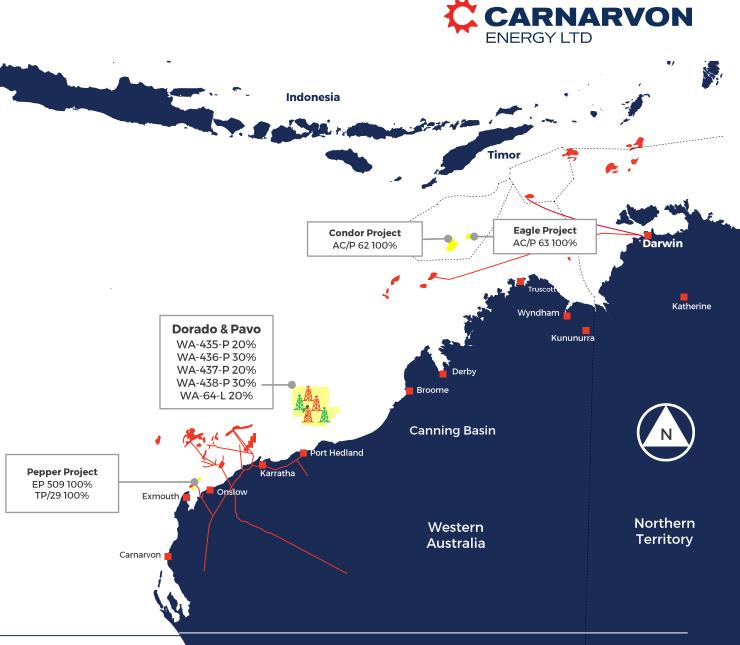
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## **Company profile**

### A successful explorer on the Northwest Shelf of Australia



| ENTERPRISE VALUE           | \$176m        |
|----------------------------|---------------|
| Cash (as at 30 June 22)    | (\$112m)      |
| Debt (as at 30 June 22)    | -             |
| MARKET CAPITALIZATION      | \$288m        |
| Share price (5 October 22) | \$0.16        |
| Ordinary shares on issue   | 1,800,186,904 |



### **Investment snapshot**





## **The Dorado discovery**



The Dorado-1 exploration well discovered 162 MMbbls (2C, gross) of light oil, and condensate-rich gas, across four stacked reservoirs

#### D-3 D-2 Upper Caley Oil discovery at Dorado-1 with significant oil 18 July 2018 Caley accumulation in the Caley Sandstone Baxter Baxspin Crespin Additional gas and condensate discovery 24 July 2018 in the Baxter Sandstone Milne Milne 2 Milne 3 Further hydrocarbon discoveries in the 8 August 2018 **Crespin and Milne Members** Dorado-2 appraisal confirms oil and 6 June 2019 condensate-rich gas and reservoir connectivity with Dorado-1 RESERVOIRS BAXTER CRESPIN MILNE CALEY Depth (m) 3,810 3,960 4,010 4,165 Dorado-3 appraisal successfully flow tested Sep-Oct 2019 • Caley flowing at approximately 11,000 bpd oil and Pressure (psia) 6.020 5.790 5.565 6.100 20 MMscf/day gas Baxter flowing at approximately 50 MMscf/day gas and 4,000 bpd oil Temperature (°C) 121 113 117 118

#### **Discovery history**

Schematic image of Dorado wells

## **Dorado development**

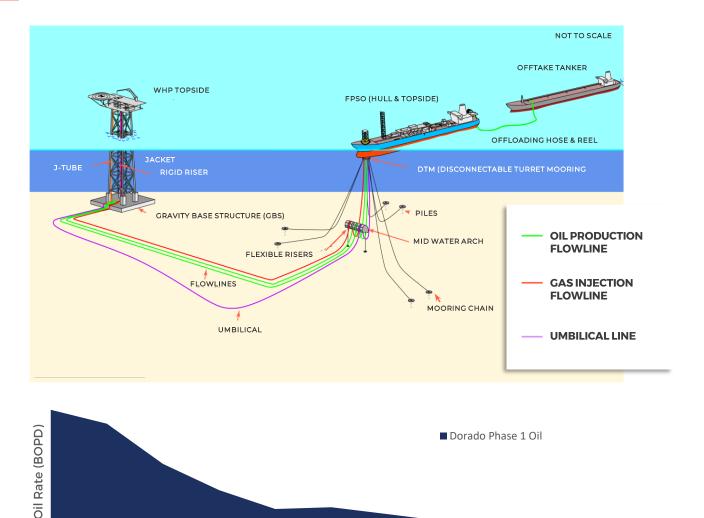


#### **FEED substantially complete**

- 100,000 bpd of high quality (~50 deg API) oil
- LPG-rich gas re-injected to enhance oil recovery
- 16-slot well-head platform in around 90m water depth
- 10 initial wells (6 oil producers, 2 gas/condensate producers, 2 gas injectors)
- High capacity floating production, storage and offloading vessel
- Designed with ability to tie-back additional fluids and future gas-export capacity
- Production licence awarded

#### Next steps

- Offshore Project Proposal approval by NOPSEMA
- Ensure supply chains risks are managed
- Integration and optimisation of Pavo resource

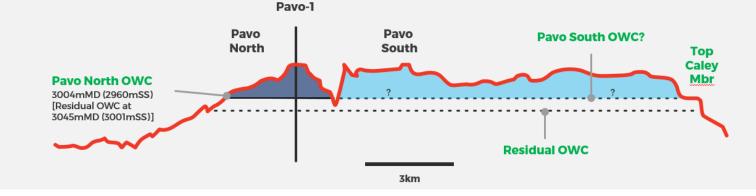


# **Pavo discovery**

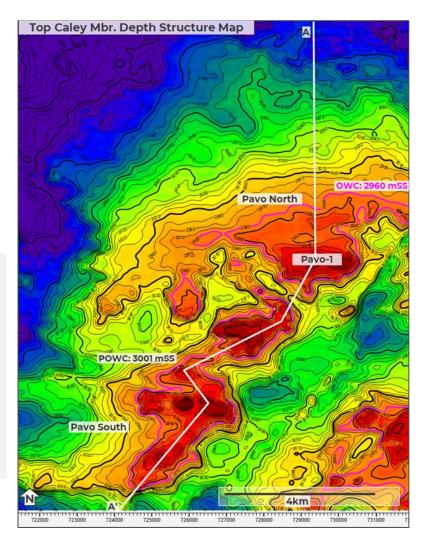


- Discovered March 2022 in 88m of water
- Pavo-1 intersected gross hydrocarbon package of 60m, with net pay of 46m, within the Caley Member
- Light sweet oil (~52<sup>°</sup> API) with low gas-to-oil ratio
- The Pavo discovery (refer Pavo North in schematic) has a liquids-only 2C resource estimate of **43 MMbbl** (100% basis)

- Pavo South has a resource potential of **66 MMbbl** (100% basis, mean) and **64%** chance of success
- Evidence from recent analysis suggests Pavo South could be oil charged



The Pavo South Prospective Resources are the estimated quantities of petroleum that may potentially be recovered by the application of a future development project and may relate to undiscovered accumulations. 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. Refer to slide 14 for further information



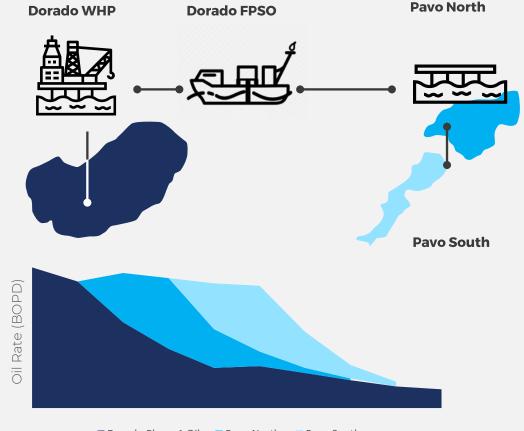
## **Pavo tie-back to Dorado**



### Integration of Pavo with the Dorado facilities enhances value generation

- Pavo-1 oil discovery is ~46km east of Dorado
- Within simple tie-back range to proposed Dorado facilities
- Low ~300 scf / bbl GOR complements Dorado production profile
- Excellent potential to extend plateau rate through Dorado facilities and maintain low OPEX / bbl rates
- Studies have commenced for integration with Dorado FPSO

Fluid production rates from Dorado are naturally expected to decline after a plateau period of 1-2 years, at which time there will be spare capacity in crude oil handling facilities, allowing for back-fill from Pavo



Dorado Phase 1 Oil Pavo North Pavo South

## Huge 1.5 bn BOE potential in top 20



### Prolific basin, extremely low finding cost of less than A\$2/boe<sup>1</sup> to date, unprecedented upside

#### Carnarvon Energy has equity over most of the Bedout sub-basin

- 20% in Western permits (WA-435 & WA-437) including Dorado oil & gas
- 30% in Eastern permits (WA-436 & WA-438) including Pavo oil

#### Extensive modern 3D data coverage

• ~70% of permits covered

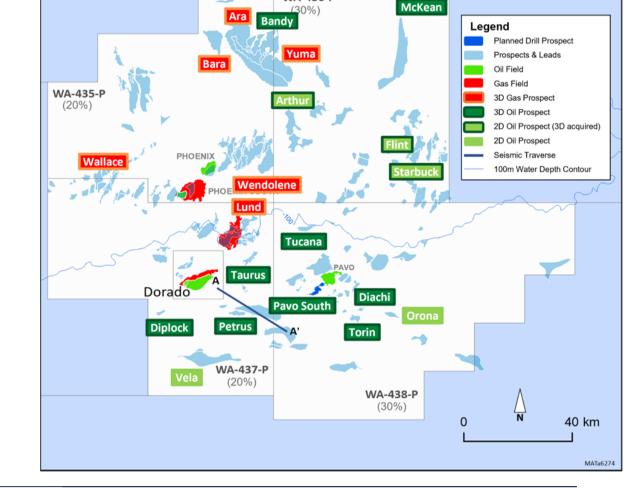
#### Over 100 prospects in multiple play types

Leads continually being added for high-grading

#### Future drilling areas being considered to capture more upside

- Pavo North appraisal
- Pavo South exploration
- Dorado near field prospects
- Oil prone targets on trend with Pavo
- Large prospects in the north targeting oil and gas
- Gas prone targets in the west to bolster future gas development

 $^{\rm 1}$  CVN net Bedout sub-Basin expenditure of A\$157m - refer 30 June 2022 Annual Report . Refer to BOE on slide 15



WA-436-P

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### **Data Improvement**



### Extensive investment in modern seismic data - the heart of exploration

#### **Data Acquisition**

- No 3D data prior to Carnarvon acquiring the blocks in 2008
- Now approximately 70% of permits covered by modern 3D

#### Feedback from drilling

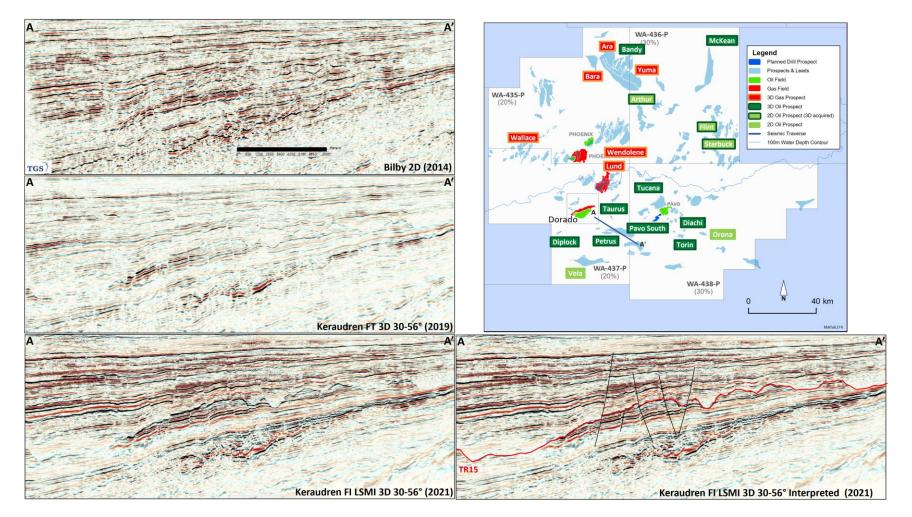
• Drilling of 11 wells since 2014 has added to the knowledge base

#### **Improved quality**

- Substantial seismic data quality improvement from 2D to 3D
- Continuous 3D data quality improvement with updated processing

#### **Greater Understanding**

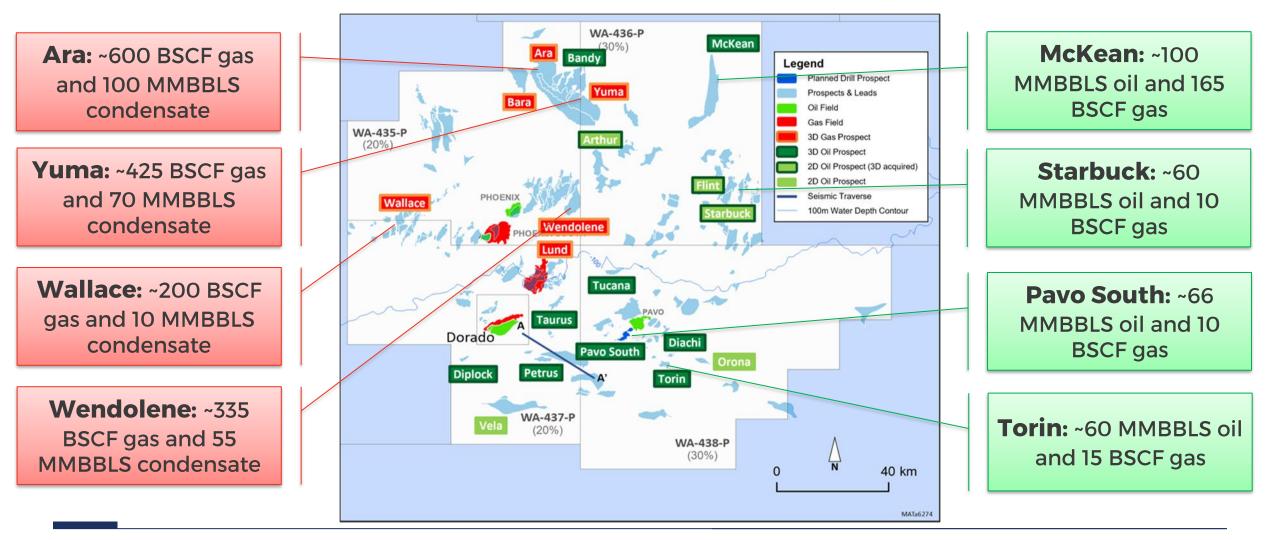
Improved focus on preferred areas to drill



# **Highlighted Potential**



### Large and diverse seriatim of prospects and leads - sample prospects shown



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These resources are Pmean and gross to the joint venture Refer to slide 16 and ASX Announcement on 4 October 2022 for more details

# **Dorado funding activity continues**



### Dorado's attraction

- Strong debt servicing capacity
  - Low operating cost per barrel
  - Material early free cash flows
- Australian jurisdiction
- Experienced operator



#### SENIOR DEBT

- Process commenced 2H calendar 2021
- Commercial engagement commenced in Q2, 2022
- Strong level of interest from lenders



#### **MEZZANINE FINANCE**

- Finance in addition to senior debt
- Junior debt, offtake prepayment and royalty funding
- In discussion with multiple providers



#### DIVESTMENT

- Azure Capital engaged Jan 2022
- Process commenced March 2022
- Reducing project equity lowers net CAPEX and increases cash for funding

### **Investment summary**



### A high quality energy portfolio in Western Australia

#### World class foundation assets in Dorado and Pavo

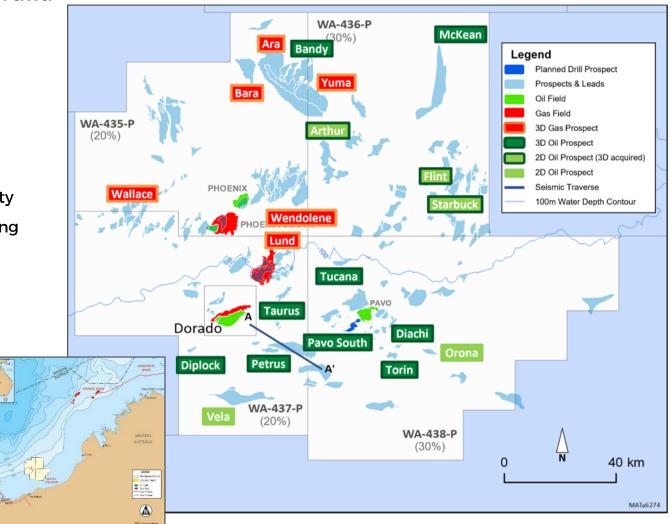
- Low-cost development in shallow water with an experienced operator (Santos)
- High quality liquids and very low CO<sub>2</sub> gas
- Strategically located near Asia Pacific refineries, with demand forecast to increase
- Increasingly important asset, contributing to global energy security
- Pavo discovery is a valuable tieback into Dorado facilities, extending field life and enhancing returns

#### Significant growth potential – 1.5 bn BOE in top 20

- Several 'lookalike' prospects in proximity to the Pavo discovery
- Exploration upside to the north and east of Dorado

#### **Optimising funding position**

- Partial divestment process underway
- Funding process commenced targeting senior debt and alternative / mezzanine sources of finance



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1.5 billion BOE are Pmean and gross to the joint venture Refer to slide 16 and ASX Announcement on 4 October 2022 for more details



## **Appendices**

### **Bedout Basin Contingent Resources**



| Gross basis              | Oil | and Condens | sate |     | Natural Gas |      | Barrels of Oil Equivalent <sup>1</sup> |     |     |  |  |
|--------------------------|-----|-------------|------|-----|-------------|------|----------------------------------------|-----|-----|--|--|
|                          |     | MMbbl       |      |     | BCF         |      | MMboe                                  |     |     |  |  |
|                          | 1C  | 2C          | 3C   | 1C  | 2C          | 3C   | 1C                                     | 2C  | 3C  |  |  |
| Dorado                   | 86  | 162         | 285  | 367 | 748         | 1358 | 176                                    | 344 | 614 |  |  |
| Pavo North               | 26  | 43          | 62   | 6   | 11          | 17   | 27                                     | 45  | 65  |  |  |
| Roc                      | 12  | 20          | 35   | 205 | 332         | 580  | 48                                     | 78  | 137 |  |  |
| Bedout Project Sub Total | 124 | 225         | 382  | 578 | 1091        | 1955 | 251                                    | 467 | 816 |  |  |

| Net CVN basis            | Oil | and Condens | ate |     | Natural Gas |     | Barrels of Oil Equivalent <sup>1</sup> |    |     |  |  |
|--------------------------|-----|-------------|-----|-----|-------------|-----|----------------------------------------|----|-----|--|--|
|                          |     | MMbbl       |     |     | BCF         |     | MMboe                                  |    |     |  |  |
|                          | 1C  | 2C          | 3C  | 1C  | 2C          | 3C  | 1C                                     | 2C | 3C  |  |  |
| Dorado (20% CVN)         | 17  | 32          | 57  | 73  | 150         | 272 | 35                                     | 69 | 123 |  |  |
| Pavo North (30% CVN)     | 8   | 13          | 19  | 2   | 3           | 5   | 8                                      | 13 | 19  |  |  |
| Roc (20% CVN)            | 2   | 4           | 7   | 41  | 66          | 116 | 10                                     | 16 | 27  |  |  |
| Bedout Project Sub Total | 27  | 49          | 83  | 116 | 219         | 293 | 53                                     | 98 | 169 |  |  |

### **Bedout Basin Prospective Resources - Gross**



|          | Carnarvon        |            |      |       | (Oil and<br>e; MME |       | N     | atural | Gas (BS | icf)    | Barre |       | il Equiv<br>OE) | Probability<br>of | Risked                        |                 |
|----------|------------------|------------|------|-------|--------------------|-------|-------|--------|---------|---------|-------|-------|-----------------|-------------------|-------------------------------|-----------------|
| Permit   | Energy<br>Equity | Prospect   | P90  | P50   | Pmean              | P10   | P90   | P50    | Pmean   | P10     | P90   | P50   | Pmean           | P10               | Geological<br>Success<br>(Pg) | Mean<br>(MMBOE) |
|          |                  | Ara        | 3.3  | 46.6  | 98.4               | 260.9 | 24.8  | 335.9  | 592.9   | 1,531.2 | 8.2   | 111.2 | 202.4           | 521.0             | 37%                           | 74.9            |
|          |                  | Bandy      | 4.5  | 49.3  | 73.5               | 171.9 | 6.6   | 79.8   | 131.1   | 318.7   | 5.9   | 65.4  | 96.5            | 227.1             | 31%                           | 29.9            |
| WA-435-P | 20%              | Wendolene  | 3.6  | 24.4  | 55.1               | 147.5 | 29.7  | 171.6  | 334.7   | 859.2   | 9.7   | 57.2  | 114.7           | 295.7             | 15%                           | 17.2            |
|          |                  | Wallace    | 0.5  | 5.0   | 8.6                | 21.5  | 12.0  | 118.5  | 183.8   | 446.2   | 2.7   | 26.6  | 40.8            | 98.9              | 39%                           | 15.9            |
|          |                  | Bara       | 1.6  | 14.2  | 34.5               | 88.3  | 12.6  | 98.8   | 210.1   | 546.0   | 4.2   | 32.5  | 71.3            | 185.5             | 13%                           | 9.3             |
|          | 30%              | Starbuck   | 8.2  | 39.0  | 58.4               | 131.9 | 13.9  | 66.9   | 100.5   | 228.9   | 11.4  | 52.1  | 76.0            | 172.7             | 32%                           | 24.3            |
|          |                  | McKean     | 3.3  | 39.5  | 98.8               | 260.6 | 5.3   | 63.0   | 164.1   | 438.3   | 4.4   | 52.2  | 127.6           | 336.0             | 14%                           | 17.9            |
| WA-436-P |                  | Flint      | 6.6  | 28.6  | 43.1               | 97.1  | 10.8  | 48.5   | 73.5    | 166.6   | 9.0   | 38.1  | 56.0            | 124.7             | 30%                           | 16.8            |
|          |                  | Yuma       | 2.0  | 30.7  | 69.4               | 176.3 | 14.9  | 218.8  | 423.4   | 1,067.0 | 4.9   | 71.7  | 143.7           | 364.1             | 14%                           | 20.1            |
|          |                  | Arthur     | 6.7  | 34.3  | 56.1               | 129.5 | 10.9  | 57.2   | 95.7    | 223.7   | 9.1   | 45.8  | 72.9            | 168.6             | 9%                            | 6.6             |
|          |                  | Vela       | 4.1  | 43.7  | 94.5               | 242.6 | 2.6   | 28.1   | 60.6    | 156.7   | 4.7   | 49.3  | 105.1           | 269.1             | 17%                           | 17.9            |
|          |                  | Petrus     | 5.7  | 22.6  | 40.5               | 95.3  | 8.5   | 35.2   | 60.5    | 140.1   | 7.8   | 29.2  | 51.1            | 119.8             | 29%                           | 14.8            |
| WA-437-P | 20%              | Taurus     | 3.7  | 18.1  | 27.2               | 62.0  | 5.9   | 30.2   | 45.7    | 106.4   | 5.0   | 24.2  | 35.2            | 80.1              | 20%                           | 7.0             |
|          |                  | Diplock    | 3.8  | 14.6  | 18.3               | 37.4  | 5.2   | 20.8   | 26.5    | 55.3    | 5.1   | 18.6  | 22.9            | 46.3              | 29%                           | 6.6             |
|          |                  | Lund       | 1.7  | 9.6   | 14.8               | 33.9  | 42.3  | 212.9  | 299.6   | 668.7   | 9.4   | 48.2  | 67.4            | 149.3             | 8%                            | 5.4             |
|          |                  | Pavo South | 6.0  | 40.7  | 66.3               | 161.6 | 0.8   | 5.6    | 9.6     | 23.5    | 6.2   | 41.8  | 67.9            | 166.1             | 64%                           | 43.5            |
| WA-438-P | 30%              | Torin      | 6.5  | 38.9  | 58.1               | 134.0 | 1.6   | 9.9    | 15.1    | 35.4    | 6.8   | 40.8  | 60.7            | 140.5             | 54%                           | 32.8            |
|          |                  | Orona      | 24.7 | 81.8  | 105.2              | 215.9 | 40.2  | 137.7  | 181.0   | 373.6   | 34.0  | 109.1 | 136.9           | 274.5             | 10%                           | 13.7            |
|          |                  | Diachi     | 1.7  | 10.2  | 14.8               | 33.3  | 0.4   | 2.6    | 3.8     | 8.8     | 1.7   | 10.7  | 15.5            | 34.9              | 54%                           | 8.4             |
|          |                  | Tucana     | 1.3  | 11.0  | 18.4               | 43.2  | 2.2   | 18.2   | 30.9    | 73.2    | 1.8   | 14.8  | 23.8            | 56.5              | 23%                           | 5.5             |
| Totals   |                  | 100        | 603  | 1,054 | 2,545              | 251   | 1,760 | 3,043  | 7,468   | 152     | 940   | 1,588 | 3,831           | Ave 30%           | 388                           |                 |

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### **Bedout Basin Prospective Resources - Net**



|          | Carnarvon        | rnarvon    |             |      | (Oil and<br>te) MM |      | N    | latural | Gas (BS | SCF)  | Barre |      | il Equiv<br>OE) | Probability<br>of | Risked                        |                 |
|----------|------------------|------------|-------------|------|--------------------|------|------|---------|---------|-------|-------|------|-----------------|-------------------|-------------------------------|-----------------|
| Permit   | Energy<br>Equity | Prospect   | <b>P9</b> 0 | P50  | Pmean              | P10  | P90  | P50     | Pmean   | P10   | P90   | P50  | Pmean           | P10               | Geological<br>Success<br>(Pg) | Mean<br>(MMBOE) |
|          |                  | Ara        | 0.7         | 9.3  | 19.7               | 52.2 | 5.0  | 67.2    | 118.6   | 306.2 | 1.6   | 22.2 | 40.5            | 104.2             | 37%                           | 15.0            |
|          |                  | Bandy      | 0.9         | 9.9  | 14.7               | 34.4 | 1.3  | 16.0    | 26.2    | 63.7  | 1.2   | 13.1 | 19.3            | 45.4              | 31%                           | 6.0             |
| WA-435-P | 20%              | Wendolene  | 0.7         | 4.9  | 11.0               | 29.5 | 5.9  | 34.3    | 66.9    | 171.8 | 1.9   | 11.4 | 22.9            | 59.1              | 15%                           | 3.4             |
|          |                  | Wallace    | 0.1         | 1.0  | 1.7                | 4.3  | 2.4  | 23.7    | 36.8    | 89.2  | 0.5   | 5.3  | 8.2             | 19.8              | 39%                           | 3.2             |
|          |                  | Bara       | 0.3         | 2.8  | 6.9                | 17.7 | 2.5  | 19.8    | 42.0    | 109.2 | 0.8   | 6.5  | 14.3            | 37.1              | 13%                           | 1.9             |
|          | 30%              | Starbuck   | 2.5         | 11.7 | 17.5               | 39.6 | 4.2  | 20.1    | 30.2    | 68.7  | 3.4   | 15.6 | 22.8            | 51.8              | 32%                           | 7.3             |
|          |                  | Flint      | 2.0         | 8.6  | 12.9               | 29.1 | 3.2  | 14.6    | 22.1    | 50.0  | 2.7   | 11.4 | 16.8            | 37.4              | 30%                           | 5.0             |
| WA-436-P |                  | McKean     | 1.0         | 11.9 | 29.6               | 78.2 | 1.6  | 18.9    | 49.2    | 131.5 | 1.3   | 15.7 | 38.3            | 100.8             | 14%                           | 5.4             |
|          |                  | Yuma       | 0.6         | 9.2  | 20.8               | 52.9 | 4.5  | 65.6    | 127.0   | 320.1 | 1.5   | 21.5 | 43.1            | 109.2             | 14%                           | 6.0             |
|          |                  | Arthur     | 2.0         | 10.3 | 16.8               | 38.9 | 3.3  | 17.2    | 28.7    | 67.1  | 2.7   | 13.7 | 21.9            | 50.6              | 9%                            | 2.0             |
|          |                  | Vela       | 0.8         | 8.7  | 18.9               | 48.5 | 0.5  | 5.6     | 12.1    | 31.3  | 0.9   | 9.9  | 21.0            | 53.8              | 17%                           | 3.6             |
|          |                  | Petrus     | 1.1         | 4.5  | 8.1                | 19.1 | 1.7  | 7.0     | 12.1    | 28.0  | 1.6   | 5.8  | 10.2            | 24.0              | 29%                           | 3.0             |
| WA-437-P | 20%              | Taurus     | 0.7         | 3.6  | 5.4                | 12.4 | 1.2  | 6.0     | 9.1     | 21.3  | 1.0   | 4.8  | 7.0             | 16.0              | 20%                           | 1.4             |
|          |                  | Diplock    | 0.8         | 2.9  | 3.7                | 7.5  | 1.0  | 4.2     | 5.3     | 11.1  | 1.0   | 3.7  | 4.6             | 9.3               | 29%                           | 1.3             |
|          |                  | Lund       | 0.3         | 1.9  | 3.0                | 6.8  | 8.5  | 42.6    | 59.9    | 133.7 | 1.9   | 9.6  | 13.5            | 29.9              | 8%                            | 1.1             |
|          |                  | Pavo South | 1.8         | 12.2 | 19.9               | 48.5 | 0.2  | 1.7     | 2.9     | 7.1   | 1.9   | 12.5 | 20.4            | 49.8              | 64%                           | 13.0            |
| WA-438-P | 30%              | Torin      | 2.0         | 11.7 | 17.4               | 40.2 | 0.5  | 3.0     | 4.5     | 10.6  | 2.0   | 12.2 | 18.2            | 42.2              | 54%                           | 9.8             |
|          |                  | Orona      | 7.4         | 24.5 | 31.6               | 64.8 | 12.1 | 41.3    | 54.3    | 112.1 | 10.2  | 32.7 | 41.1            | 82.4              | 10%                           | 4.1             |
|          |                  | Diachi     | 0.5         | 3.1  | 4.4                | 10.0 | 0.1  | 0.8     | 1.1     | 2.6   | 0.5   | 3.2  | 4.7             | 10.5              | 54%                           | 2.5             |
|          |                  | Tucana     | 0.4         | 3.3  | 5.5                | 13.0 | 0.7  | 5.5     | 9.3     | 22.0  | 0.5   | 4.4  | 7.1             | 17.0              | 23%                           | 1.6             |
| Totals   |                  | 27         | 156         | 270  | 647                | 60   | 415  | 718     | 1,757   | 39    | 236   | 396  | 950             | Ave 30%           | 97                            |                 |

Prospective Resources are the estimated quantities of petroleum that may potentially be recovered by the application of a future development project and may relate to undiscovered accumulations. 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,.