Atwood Eagle the rig used for the 2014 Phoenix South-1 discovery

m

# a feast of North West Shelf opportunities

#### **APPEX Global 2016**

#### 1 March 2016





#### 1. Who we are

- 2. Bedout Sub-basin appraisal opportunity
- 3. Proven track record of value creation
- 4. Australian offshore portfolio opportunity
- 5. Conclusions





- 1. Who we are (canapés or hors d'oeuvres)
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# Management

Senior staff are technically driven professionals with a diverse and complementary range of backgrounds, skills and experiences with >140 years of expertise in global oil and gas exploration

#### SHANE WESTLAKE

Chief Executive Officer



Dariusz JABLONSKI Manager - New Ventures



#### JAN **OSTBY** Director - Owner



AARON BOND Manager - Geoscience



#### DARCY CHRISTIAN Director - Finder Canada





#### CRAIG GUMLEY

Manager - Offshore Australia



RYAN TAYLOR-WALSHE Manager - Onshore





# Management

Senior staff are technically driven professionals with a diverse and complementary range of backgrounds, skills and experiences with >140 years of expertise in global oil and gas exploration

#### SHANE WESTLAKE

Chief Executive Officer

15 years experience as a petroleum geophysicist, seismic interpreter and prospect generator including 5 years as Area Coordinator for PGS Reservoir, setting up their Perth office.

Shane joined Finder in 2007 and was promoted to Chief Executive Officer in late 2015.

#### Dariusz JABLONSKI

Manager - New Ventures

20<sup>+</sup> years experience as a petroleum geologist, seismic interpreter and team manager for Woodside in Australia/PNG, focusing on acreage assessment, risk analysis and play map generation.

Dariusz was Exploration Manager from 2006 until late 2015 when he moved to the New Ventures role.

#### JAN OSTBY

Director - Owner

30<sup>+</sup> years of experience in the industry.

Founding partner of Seismic Australia which was acquired by Fugro in 2000.

Founding Managing Director until late 2015.

#### AARON BOND

Manager - Geoscience

14 years of industry experience as a petroleum exploration geoscientist, including 9 years at Eni (Australia & Italy).

Aaron's work has covered a wide range of exploration and operation roles covering Australia, East Timor and West Africa.

Aaron joined Finder in 2011.

#### DARCY CHRISTIAN

Director - Finder Canada

10 years of industry experience, initially as a wellsite geologist for multiple drilling programs in North America.

Darcy joined Finder in Perth as an explorationist in 2008, prior to repatriating to Calgary late 2013.



#### CRAIG GUMLEY

Manager - Offshore Australia

30+ years of industry experience including 17 years at Santos holding senior exploration management positions (Australia & USA).

Focussed on delivering exploration success through basin, acreage and prospect evaluation.

Craig joined Finder in 2009.

#### RYAN TAYLOR-WALSHE

Manager - Onshore

21 years experience, predominately with Schlumberger seismic services (director of Schlumberger Australia from 2008-2013).

Expertise in seismic technologies, operations, & non-exclusive project development and governmental/ regulatory lobbying.

Ryan started with Finder in 2014.

EXPLORATION

## **Northwestern Australia - 16 Permits**

#### Finder has:

ansz

Scarborough

- utilised its knowledge & database to bid and acquire acreage in gazettal rounds and farmins since 2004
- delivered a current net acreage holding of ~28,500 km<sup>2</sup> in northwestern Australia

#### with material participating interests

Arous

chthvs

Poseidon

Broome

Torosa

Brecknock/ Calliance

Phoenix Sth

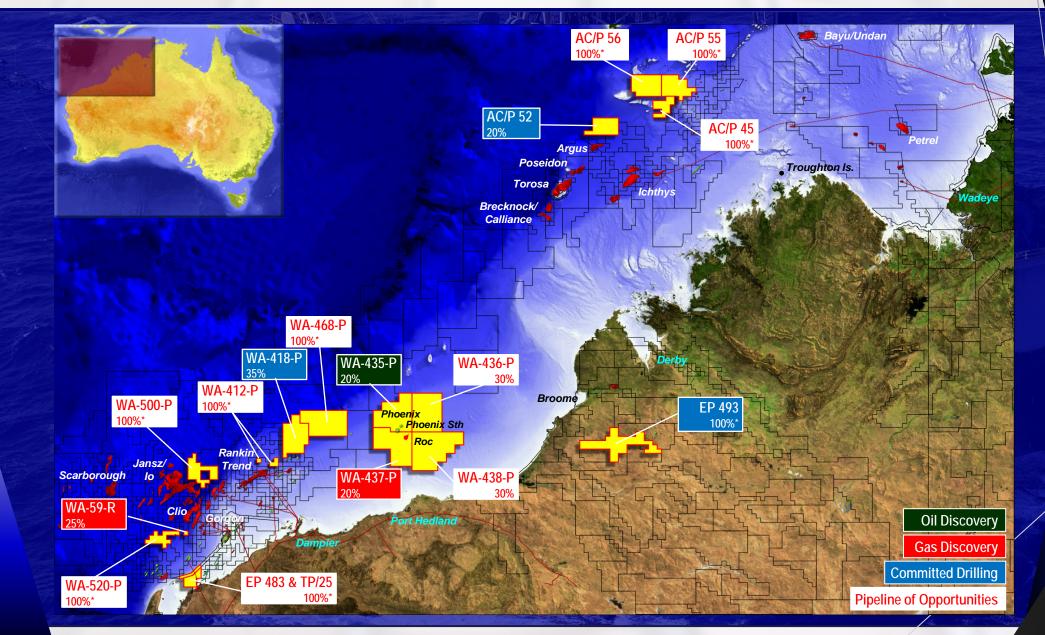
Bayu/Undar

Troughton Is.

Petre



## **Northwestern Australia - 16 Permits**



with material participating interests



Slide 7

## Northwestern Australia - 3 discovered fields

Bayu/Undan Finder discovered: • Olympus in 2013 - gas Phoenix South in 2014 – oil  $\bullet$ Petre Araus • Roc in 2015 – wet gas Poseidon Troughton Is. Torosa chthys Brecknock/ Calliance Broome Phoenix Sth Roc ansz Scarborough Olvmpus

#### with material participating interests



## Growth driven by new 3D seismic data!

3D seismic database:

- ~25,800 km<sup>2</sup> of new data + ~18,800 km<sup>2</sup> of reprocessed data
- since 2010 ~14,000 km<sup>2</sup> of data across 12 surveys & 12 Permits
- plus ~7,000 km<sup>2</sup> of brand new 3D seismic over 5 Permits

~US\$92 million invested in 3D seismic data

Poseidon

Broome

chthvs

Torosa

Brecknock/

Calliance

hoenix Sth

Bayu/Undar

Troughton Is.



Scarborough

## Finder is a successful private oil and gas company

- focussed on capturing and de-risking prospective acreage through geoscience excellence
- is an **opportunity company** driven by data & deal flow
- has entered into agreements with major industry participants for the farmout, assignment and sale of permit interests
- has an unrisked mean recoverable resource (Finder share) in excess of
  1 billion barrels of oil equivalent across the key projects of the portfolio
- is delivering success through drilling
  - 5 exploration wells to date:

three discovered fields (**Olympus**, **Phoenix South & Roc**) plus encouraging results from Theia-1 - pending final laboratory results

• 2 wells in the next 12-18 months (Hyde and Cronus)



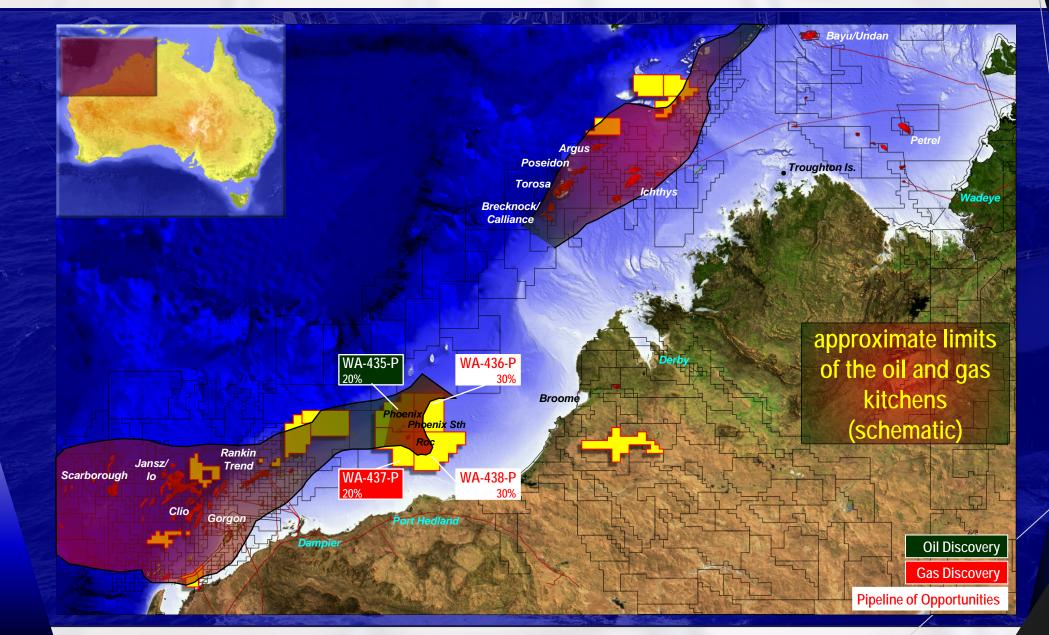


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### **Bedout Sub-basin – 100% success in emerging province!!**

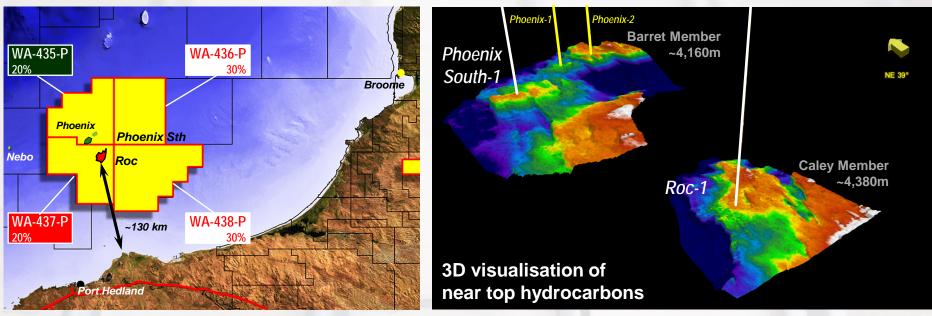


with material participating interests

FINDER

EXPLORATION

## Phoenix South oil field (2014) and Roc gas field (2015)

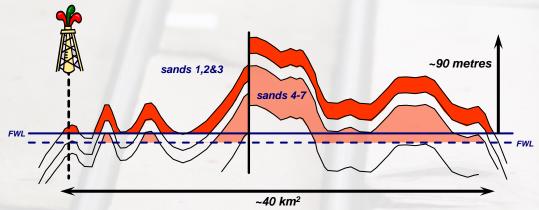


- all wells drilled on 3D seismic data within this emerging and prolific hydrocarbon province have been discoveries:
  - 2014 Phoenix South-1 oil discovery (up to 300 mmstb OOIP\*)
  - 2015 Roc-1 wet gas discovery (up to 1.4 TCF OGIP\*)
- Roc-1 proven gas
  - reservoir sands of ~10%  $\phi$  with 10s -100 mD permeability & strong water drive
  - 3 gas columns intersected but pressure offset is only ~12 psi at 4,380 metres
  - initial assessment liquids rich gas (40-60 bbls/mmcf) with low CO<sub>2</sub> & no H<sub>2</sub>S
    \* OOIP is "Original Oil in Place" and OGIP is "Original Gas in Place"



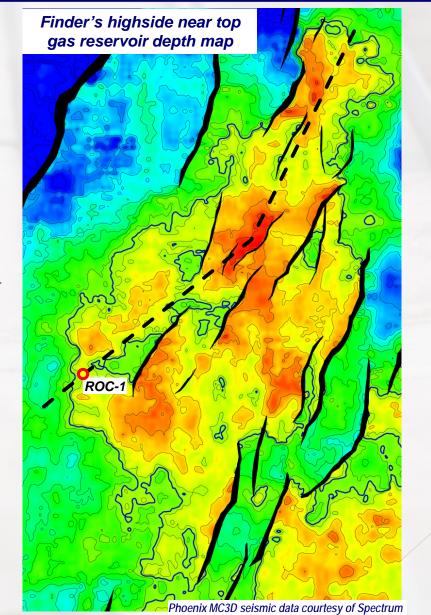
## Bedout Sub-basin – Roc-1 Finder's current assessment

- crestal test of primary target was water wet (Phoenix South oil pay level)
- wet gas pay was intersected at the secondary target



**Reservoir section schematic** – Note: significant vertical exaggeration

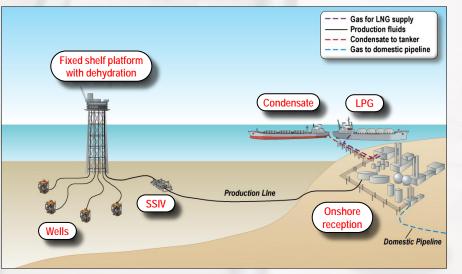
- intersection ~90 metres down-dip from crest with ~40 km<sup>2</sup> up-dip potential
  - ~400 BCF OGIP\* in sands 1, 2 & 3
  - ~1.4 TCF highside OGIP\* if deeper sand is gas filled up-dip (sands 4-7)
- determines the limits of the Roc gas field
  \* OGIP is "Original Gas in Place", impact of associated condensate not included



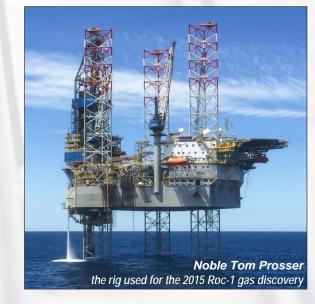


## **Bedout Sub-basin – many commercialisation options**

- Bedout Sub-basin offers a naturally hedged portfolio
  - gas for the domestic market and/or oil depending on the economic cycle
- Roc-1 commercial viability simple, low cost development close to infrastructure
  - initial indications of high quality gas
  - jack-up water depth and ~130 km offshore from the coast north of Port Hedland similar to Quadrant's Devil Creek Gas Plant and the 450 BCF Reindeer gas field



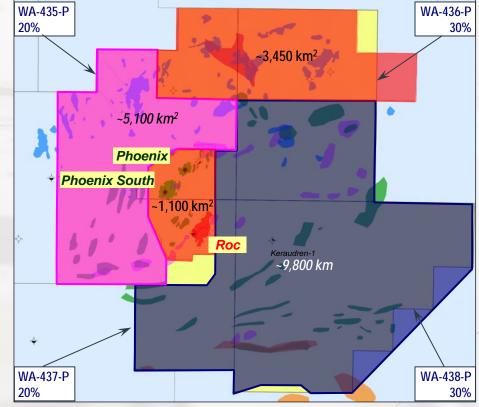
- Roc-1 commercialisation options
  - existing DomGas suppliers;
  - LNG producers with DomGas obligations; plus
  - potential Pilbara resource ventures and local power generation





## Bedout Sub-basin – significant upside and running room

- significant oil in the system, ie
  - Phoenix South oil field
  - Roc-1 has excellent oil shows:
    - above the Phoenix South-1 pay levels;
    - in the gas reservoir; and
    - at the bottom 50 metres with possible sand development at TD!
- ~22,000 km<sup>2</sup> acreage captures the known limits of the petroleum system
- ~60 further prospects & leads > 10 km<sup>2</sup> currently identified
  - ~4,600 km<sup>2</sup> of existing 3D data
- plus current data phase:
  - ~5,100 km<sup>2</sup> new 3D seismic data &
  - ~9,800 km 2D data
- de-risked exploration & appraisal drilling – next step is Roc-2
- ~US\$5 million net drill carry remaining







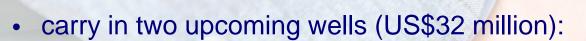
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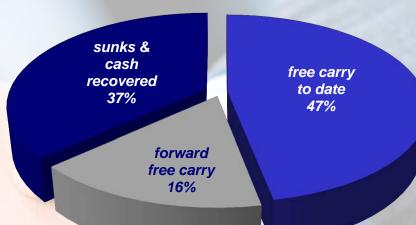


## Proven track record of value creation

- Since 2007 Finder has completed 16 transactions delivering carry in six wells of the four carried wells so far all have encountered hydrocarbons
- delivering a total value of US\$197 million:
  - work program carry value to date of ~US\$93 million plus
  - sunk cost & cash payments of ~US\$72 million with



- Hyde-1 in the northern Dampier Sub-basin and
- Cronus-1 in the northern Browse Basin plus
- partial carry for the Roc-2 appraisal well
- with potential future success payments and/or overriding royalties





## **Proven track record of value creation – our partners**



**IDER** 

## Proven track record of value creation





## With a sustainable forward business model

- Finder offers "no/low risk & cost" offshore exploration:
- all major permit commitments have been satisfied to date
  - except the 3D seismic commitment in the recently awarded WA-520-P
- carry in two upcoming offshore wells
  - all future drilling efforts are discretionary
- Finder's offshore assets are located in a stable OECD fiscal regime with supportive state and federal governments
- Leveraging lower costs in the current oil price environment means Finder can continue success with the injection of additional funding to deliver discretionary:
  - appraisal drilling, ie Roc-2, Phoenix South-2 and possibly Hyde-2?
  - future exploration drilling based on 3D defined "drill ready" prospects ground floor material entry position to proven Operators with success payment = low exposure for Finder



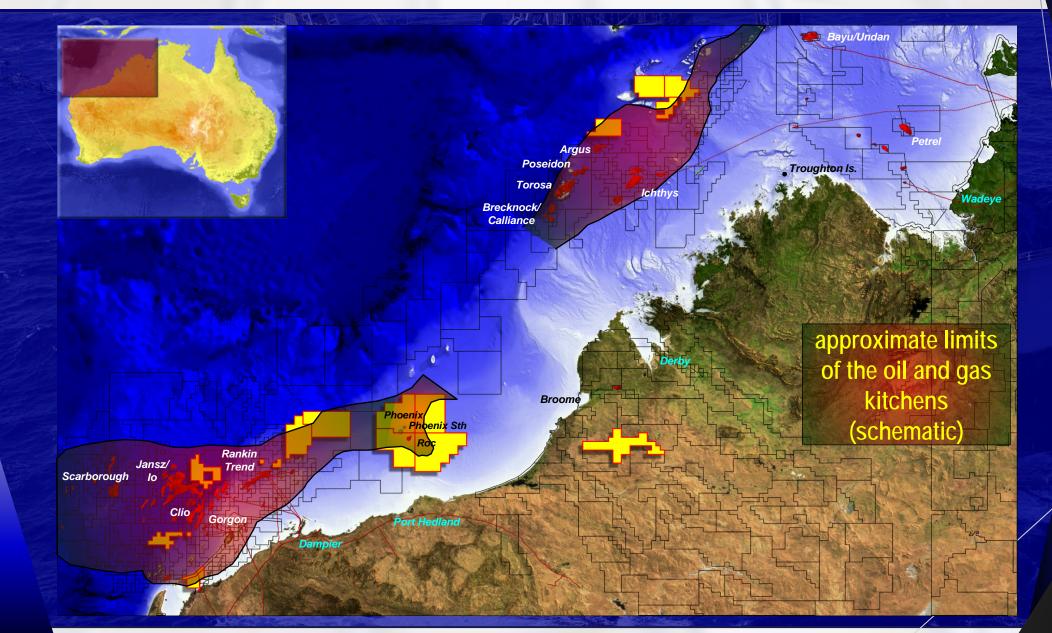


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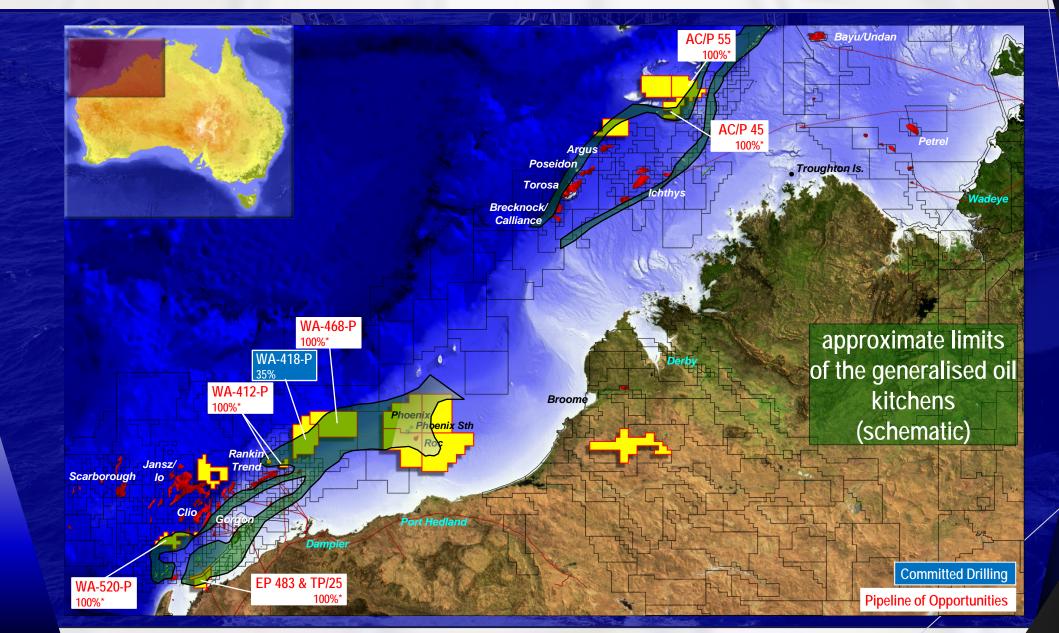
### **Offshore North West Shelf - 15 Permits**







## Shallow water, high margin oil portfolio



with material participating interests

FINDER

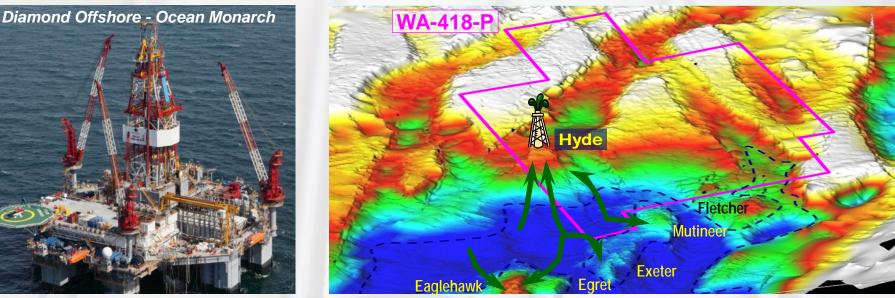
**EXPLORATION** 

## Shallow water, high margin oil portfolio

- Exploration targeting four different, independent and proven oil provinces
- Uncapped carry in Hyde-1 testing the Northern Dampier Oil Portfolio -WA-418-P, WA-412-P and WA-468-P;
  - Hyde-1 is a test of the northern limit of hydrocarbon charge from the Victoria Syncline - success significantly de-risks the Portfolio
- Inboard Barrow Sub-basin EP 483 & TP/25;
  - first 3D seismic data targeting low risk exploration prospectivity in jack-up water depths
- Northern Browse/Southern Bonaparte Basins AC/P 45 and AC/P 55;
  - exploration led by brand new 3D seismic data with hydrocarbon charge de-risked by 2014 seabed sampling survey
- Exmouth Sub-basin WA-520-P
  - newly awarded high potential exploration Permit on the flank of the Exmouth Sub-basin - next step to acquire first 3D seismic data



### Hyde-1 – test of the Northern Dampier Oil Portfolio

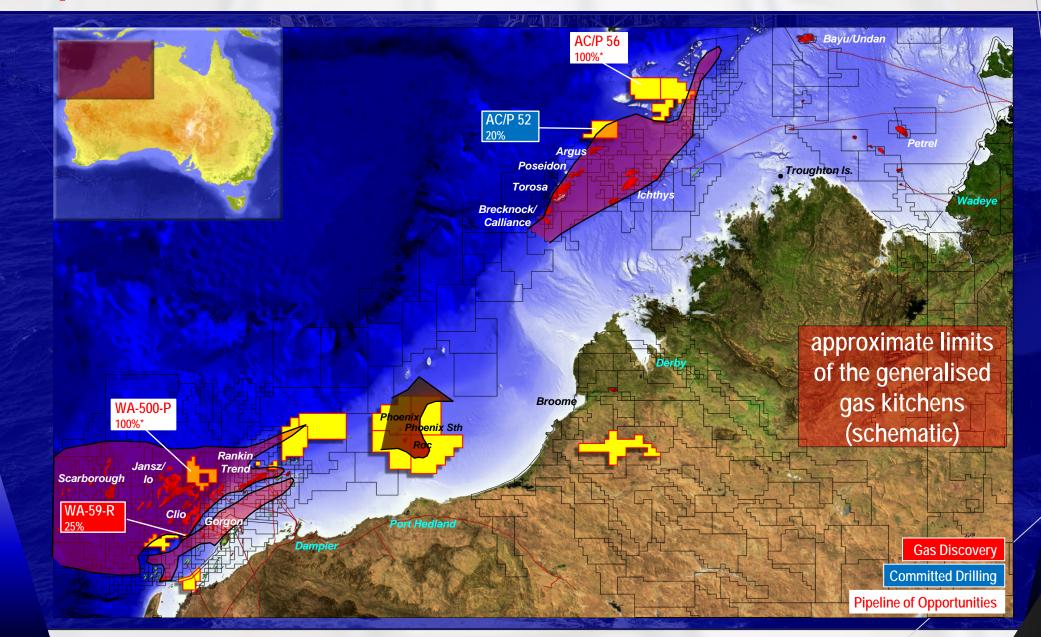


semi-regional Oxfordian depth visualisation

- Finder is fully carried in the drilling of the Hyde-1 exploration well
  - spud 17 February '16 on the Diamond Offshore Ocean Monarch drill rig
- Hyde-1 is:
  - a test of the northern limit of hydrocarbon charge from the Victoria Syncline
  - targeting a highside of ~200 mmbbls OOIP in the Legendre Formation
  - in ~350 metres water depth and ~40 km north of the Mutineer/Exeter FPSO
- WA-418-P also contains 14 additional prospects & leads over 3 primary play levels
- success significantly de-risks the Northern Dampier Oil Portfolio



#### **Gas portfolio**



with material participating interests



Slide 27

### **Gas portfolio**

- Finder has amassed a significant and strategic gas portfolio across two independent and proven provinces
- Olympus-1 2010 gas discovery WA-59-R (was WA-450-P)
  - all costs carried until the issue of a Production License
- Full carry in the Cronus-1 well AC/P 52 plus AC/P 56
  - Shell operating and with success will commercialise either as a stand alone FLNG project or as feedstock into Prelude FLNG AC/P 56 is leveraged to Cronus success
- Urania Deep WA-500-P
  - multiple play levels identified with offset analogues: Permit immediately west of Pluto/Wheatstone (Woodside/Chevron operated) and on trend to Jansz/Io (Chevron operated)





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## Conclusions

Finder has a focussed team:

- with a demonstrated track record of value accretive transactions that has
- delivered exploration success with three oil and gas fields to date
- built a high quality oil and gas exploration portfolio supported by recent vintage 3D seismic data

#### with

- a proven commercial model of low cost exploration
- near term carried drilling activity ready for further growth
- commercialising existing discoveries
- maturing the exploration portfolio to "drill-ready"
- proving up large resource play in Canning Basin
- expanding into Canada

ready to meet the next challenges!!





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- 6. Drinks (drinks!!)





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