

**ASX Announcement  
For Immediate Release**

12 August 2019

**TMS Project Update:  
Well Production Continues to Exceed Benchmark Type Curve****Highlights**

- Production results from the initial wells continue to confirm consistent Tier 1 oil productivity, exceeding the Australis benchmark TMS Type Curve.
- Capital costs associated with drilling and completion activities for the Initial Drilling Program remain within budget and there is line of sight to future drilling cost reductions via scale and repetition, consistent with industry experiences.
- The Saxby 03-10 2H well (Well #6) has now been drilled and cased to a depth of 17,560ft.
- The High Performance Water Based Mud (HPWBM) system incorporated into the the drilling program since well #5 has provided improved drilling parameters and Australis can now demonstrate a solution to most of the historic TMS issues that have been encountered.
- Completion operations are expected to commence in late August on the Saxby 03-10 2H well and the Quin 41-30 3H well (Well #5).

Australis Oil & Gas Limited (Australis or the Company) provided an update on its Initial Drilling Program at the Company's Tuscaloosa Marine Shale ("TMS") project on 11 June 2019 and 31 July 2019. The Company provides the following update on activities and progress since these reports.

**Overview of the TMS Project – a Tier 1 oil play**

Consistent with our stated corporate strategy Australis has over several years secured a substantial acreage position with proven oil production in Mississippi and Louisiana on highly attractive terms. Thereafter, the Australis strategy was to demonstrate the underlying value of the asset and then in due course realise that value.

To this end, in Q4, 2018, the Company commenced an Initial Drilling Program ("IDP") in the TMS. The primary aim of the IDP is to demonstrate the value of over 200 million bbls<sup>1,2,4</sup> of undeveloped oil reserves and resources (over 400 well locations) to which Australis holds the rights. This program included a rig contract commitment to a six well drilling program, which is now complete. The first four wells are on production and stimulation operations will shortly commence on wells #5 and #6.

**Drilling Operations Update**

The drilling of the Saxby 03-10 2H well incorporated a number of design refinements from the prior wells and was the second well that utilised the HPWBM system. Australis has been developing this design change since the commencement of the IDP and wells #5 & #6 were always designated for initial testing.

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The Saxby well was drilled to 17,560 feet and has a lateral well length of approximately 5,000ft. The wellbore remained stable throughout the drilling of this well directly as a result of the improved drilling parameters provided by the HPWBM. Preparation for completion operations to stimulate the Quin and Saxby wells is underway and fracking is scheduled to start during the last week of August with flowback anticipated to begin in mid September.

Whilst refinement to the engineered design of drilling operations in the TMS will continue, Australis can now demonstrate a solution to most of the historic TMS issues that have been encountered by previous operators and Australis.

The expectation is that both new wells will demonstrate TMS Type Curve<sup>5</sup> productivity once completions operations have finished. Once on production these wells will also meet the lease obligations in their respective production units, converting acreage to HBP status.

Due to drilling delays, particularly on well # 5, the IDP is approximately 8 weeks behind schedule but remains within the capital budget set for the full program of work.

### **Short Pause in Drilling Operations**

With the positive results achieved to date from the IDP and with many objectives having largely been met, a short pause in drilling operations of approximately 2 months is now being taken to allow the operations team to consolidate the knowledge gained and lessons learned, and to re-tender for providers of certain equipment and services for the next batch of wells within the program.

### **Corporate Presentation**

Please find an updated corporate presentation attached to this announcement.

### **Ends**

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### **About Australis Oil & Gas Limited (Australis)**

Australis (ASX: ATS) is an ASX listed upstream oil and gas company seeking to provide shareholders value and growth through the strategic development of its quality onshore oil and gas assets in the United States of America and Portugal. Australis' 115,000 net acres within the production delineated core of the oil producing TMS provides significant upside potential with an estimated 425 net future drilling locations, and an independently assessed 50 MMbbl of 2P oil reserves (including 4 MMbbl producing reserves providing net free cash flow)<sup>1</sup> as well as 108 MMbbl of 2C contingent oil resource<sup>1</sup> (based on net acreage at the effective date of the independent report of 110,000 acres) and a further 9 MMbbls of contingent oil resource<sup>2</sup> attributable to the 5,000 net acres added since that report. The Company was formed by the founders and key executives of Aurora Oil & Gas Limited, a team with a demonstrated track record of creating and realising shareholder value.

For note references please see attached presentation.

ASX: ATS

# Investor Presentation

*August 2019*



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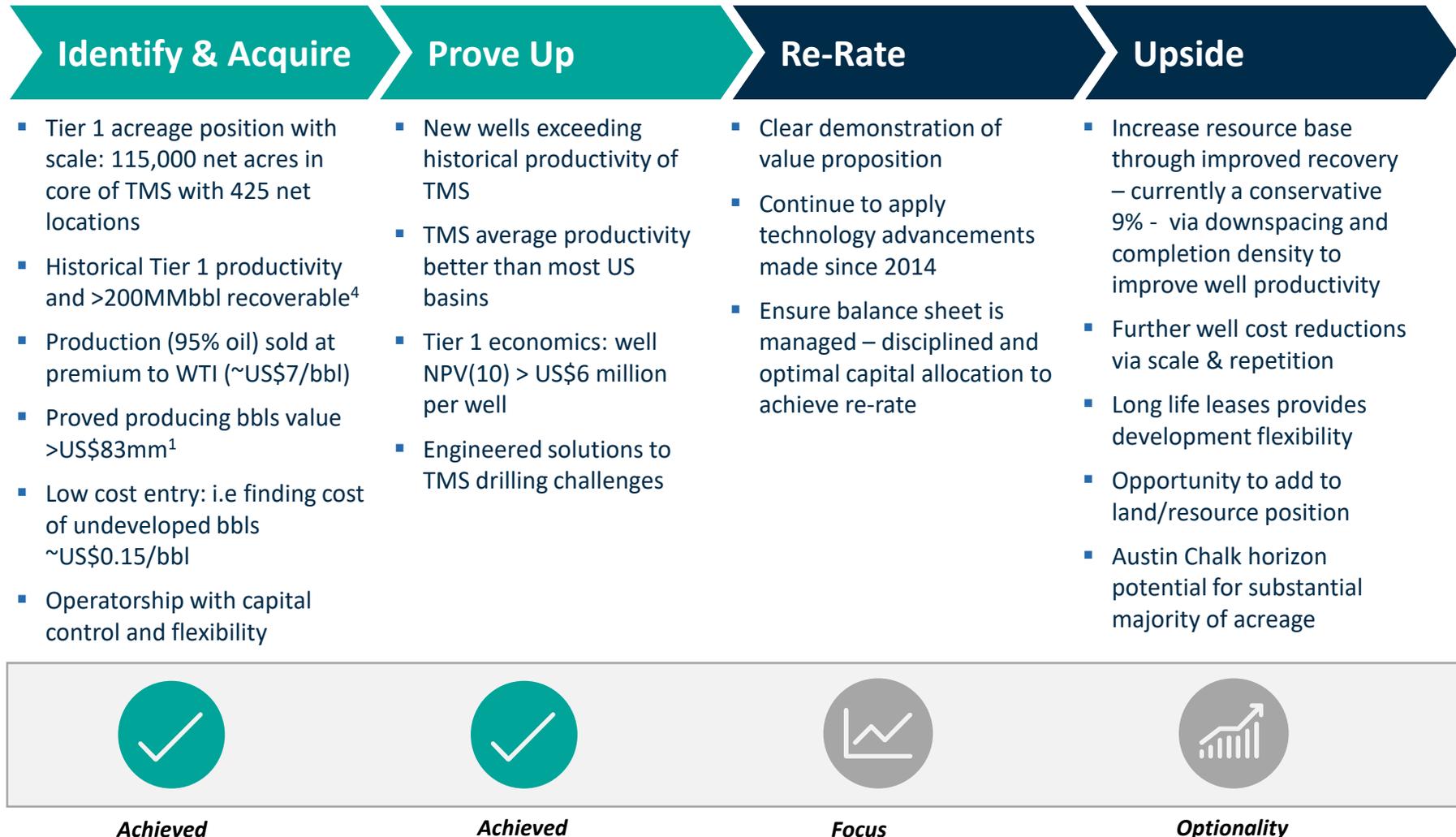
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# Play proven, strategy execution advanced, poised for re-rate

ATS has maintained and executed on a clear strategy to create value



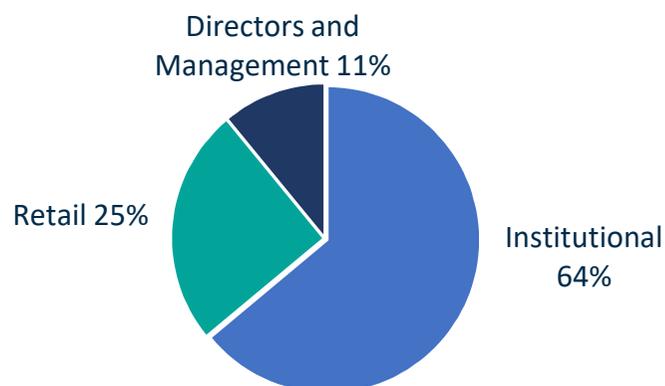
# Corporate Snapshot

Board and Management are personally invested, owning 11% of the Company

## Key statistics (as at 30 June 2019) -

Average Production (WI) 2Q 19	2,582 bbl/day
Proved & Probable Reserves <sup>1</sup>	50 MMbbl
Recoverable Resource (3P + 2C) <sup>4</sup>	206 MMbbl
Cash Balance	US\$29.7 million
Debt	US\$20 million
Available Debt	US\$45 million
H1 2019 EBITDA	US\$7.4 million

## Share Register Composition – 986 million shares on issue



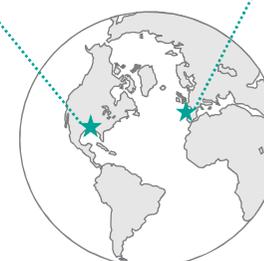
## USA

Tuscaloosa Marine Shale  
115,000 net acres  
206 MMbbls (3P + 2C)<sup>4</sup>



## Portugal

Lusitanian Basin  
459 BcF (2C)<sup>3</sup>



# Why we like the TMS Core

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The TMS play has a number of unique advantages

## Highly Productive Reservoir

- Average of all 15 wells drilled in 2014 by previous operator forms our TMS Type Curve<sup>5</sup>
- TMS Type Curve is on par or better than most USA Tier 1 oil shale basins
- Results from our 2018/19 drilling program outperforming the TMS Type Curve
- TMS Core one of the few remaining undeveloped Tier 1 oil shale plays

## Significant Acreage & Resource

- 115,000 net acres in the TMS Core - long life leases and low average royalties (<20%)
- Recoverable resource of 206 million barrels (net) including 2P of 50 million barrels<sup>1,2,4</sup>
- 425 net well locations each with NPV10 per well > US\$6 million

## Unique Australis Position

- Contiguous lease position enables scale & manufacturing approach to development
- As operator, with extensive lease tenure we control our own destiny
- Prior wells (2014 and earlier) have >4 year production history, increasing Type Curve certainty
- Austin Chalk play potential being tested adjacent to our acreage

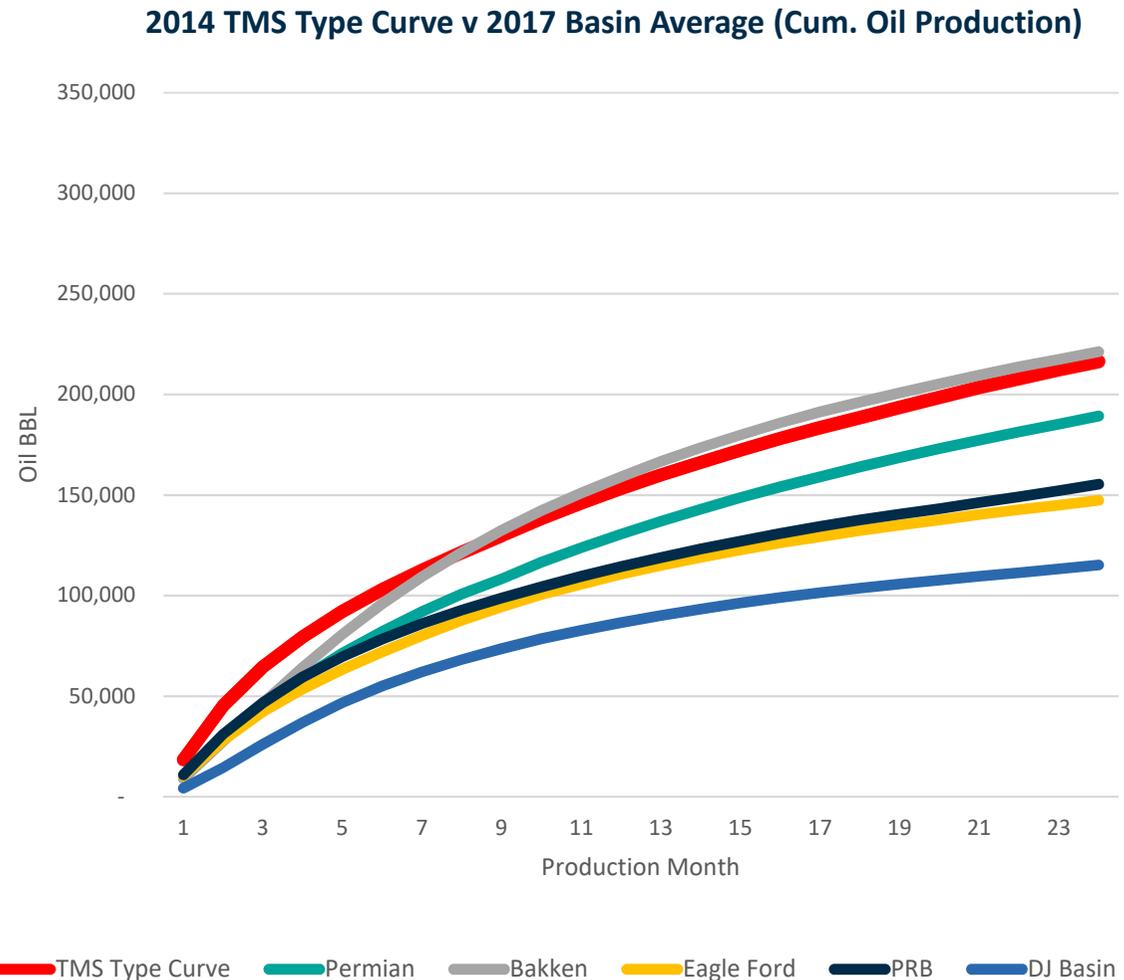
## Premium Oil and Pricing

- TMS 95% oil weighted
- Access to oil sales infrastructure with capacity and proximity to multiple oil markets
- Quality light sweet crude sold at LLS pricing, achieved US\$7/bbl premium to WTI in Q2 19

# TMS production compares favourably with other basins

## TMS Type Curve wells productivity outperforms many of the other USA liquid rich plays

- 2014 TMS Wells (15 wells) averaged 216,000 bbl oil in the first 24 months. The TMS Type Curve is the average of these 15 wells.
- No wells were drilled in the TMS core between 2015 and late 2018
- Average well performance improved by 25% in the Eagle Ford and by 65% in the Permian during this period
- The 2014 TMS Type Curve compares favourably to more than 7,500 producing wells in other basins drilled in 2017, which have all benefited from improvements in technology, well design and high grading

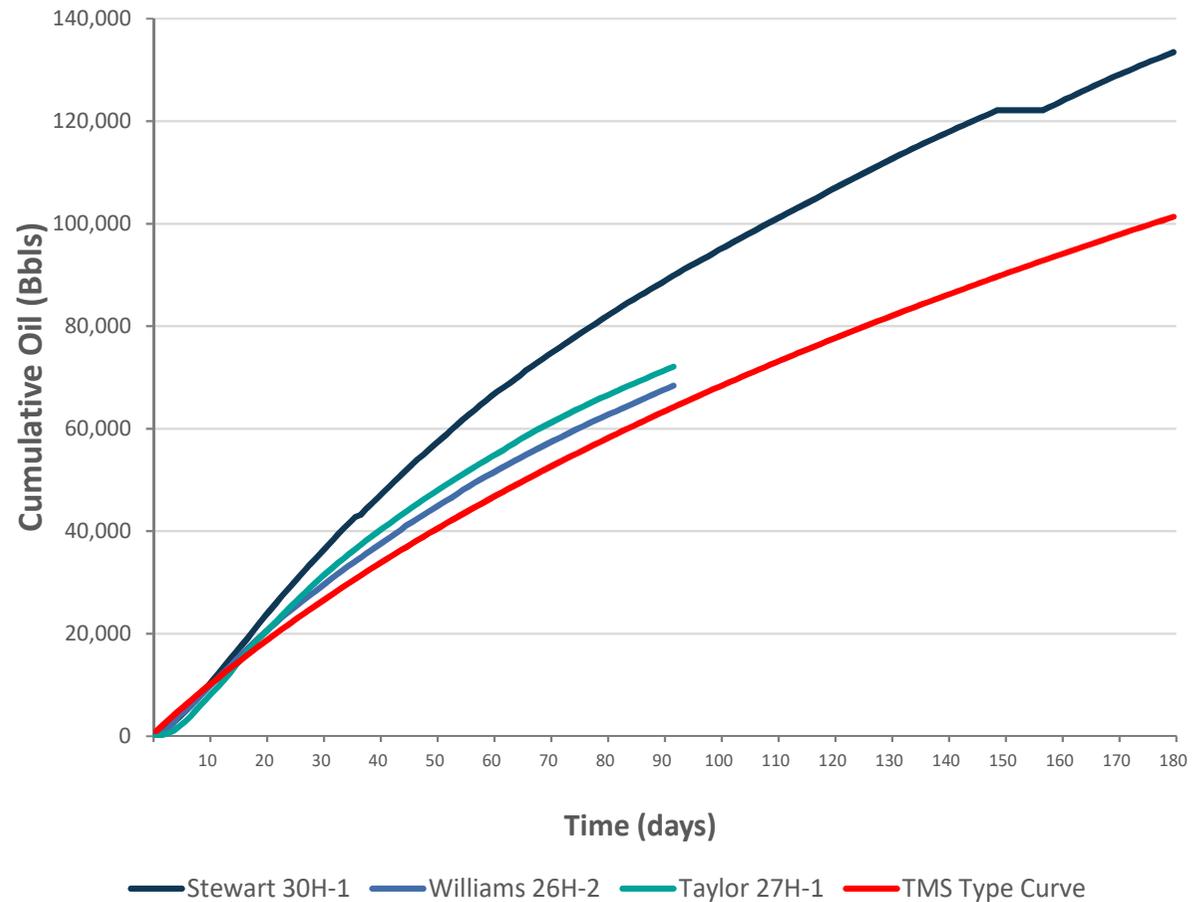


# Australis 2019 wells exceeding the TMS Type Curve

## Initial wells demonstrate consistent Tier 1 productivity

- The primary objective of the Australis 2018/19 Initial Drilling Program is to replicate the TMS Type Curve productivity
- Our new wells confirm productivity performance. As at 30 June 2019, 3 performing above TMS Type Curve
- Stewart 30H-1 is producing 27% above the TMS Type Curve after 6 months
- Taylor 27H-1 is producing just above the TMS Type Curve after 3 months
- Although a shorter lateral length, Williams 26H-2 is exceeding expectations on rates and decline based on drilled horizontal length
  - When normalized to 7,200 ft, production was 5% above the TMS Type Curve after 3 months
- The graph shows normalised production, ie adjusted to a horizontal length of 7,200ft.

Cumulative Oil Production v TMS Type Curve (Normalised to 7,200 ft)



# Historical Drilling challenges being resolved

Challenge	Status	Solution
<b>1 Well bore stability</b>		
<ul style="list-style-type: none"> <li>Ability to define operating pressure window</li> </ul>	Resolved	Utilised 3D Mechanical Earth Model with Schlumberger and refined with additional operational data Polymer Water Based Mud (“WBM”) system, tested against cores has been trialed and refined with sized background solids delaying poor pressure transmission and improving hole stability. WBM improves mud loss management.
<ul style="list-style-type: none"> <li>Time dependence of oil based mud pressure transmission</li> </ul>	Resolved	
<ul style="list-style-type: none"> <li>Problematic shale formations in the build section</li> </ul>	Contingency solution	
<b>2 Narrow 20 ft drilling window</b>	Resolved	Geo-steering successfully done using simpler bulk Gamma and Resistivity allowing bigger population of service providers for tools. Drilling rate improvements now targeted.
<b>3 Intermediate Casing Depth</b>		
<ul style="list-style-type: none"> <li>Previous casing design left intermediate shoe too shallow and added lower pressure sand systems to final well section</li> </ul>	Resolved	Intermediate casing point pushed deeper into transition zone of TMS pressure and below critical sands. Hole trajectory requires a ~40 deg inclination at the shoe.

# Large contiguous land position

## Size and Flexibility

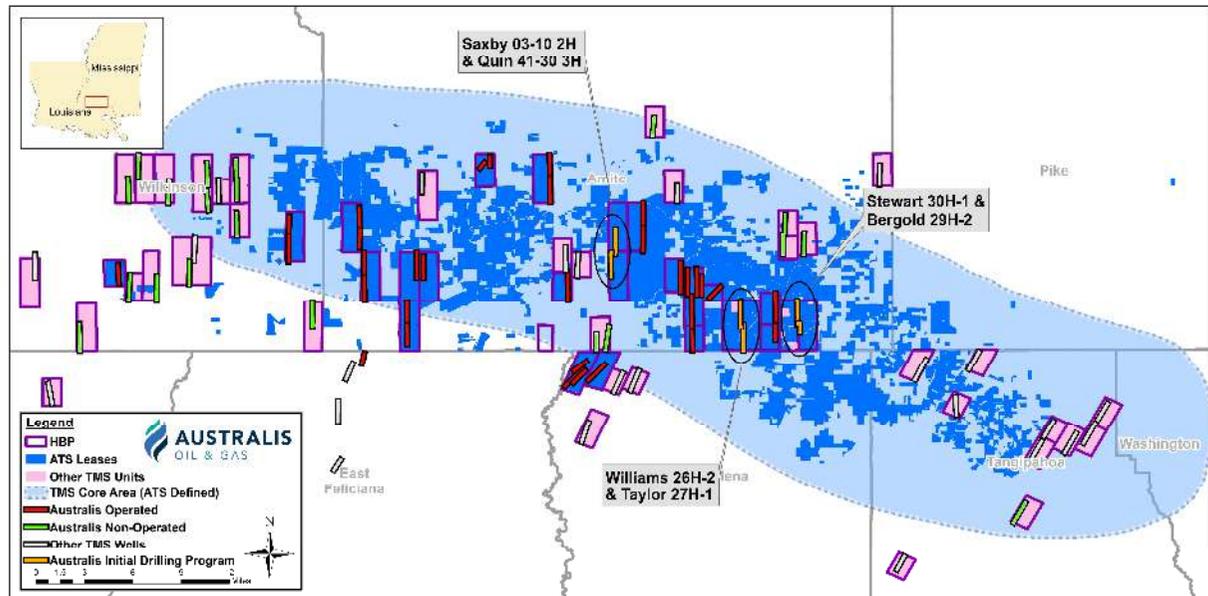
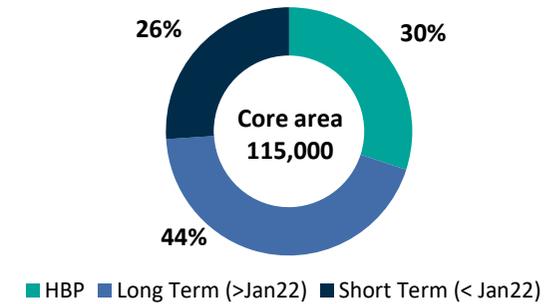
- Majority of 115,000 acre lease position held without short or medium term drilling obligations
- Large drilling units of up to 1,920 acres allow efficient development to meet lease obligations
- Long lease expiry profiles provide development flexibility and efficiency

## Control and Opportunity

- Contiguous operated position enables
  - multiple development options
  - manufacturing approach to development
  - control over infrastructure, drilling locations
- Strategic position in the productive core restricts new entrants to the play
- Opportunity and ability to increase land position at accretive prices.

## Core TMS Land Position

Held by Production	34,800 net acres
Total position	115,000 net acres
Operated Drilling & Production Units	24
Net Future Well Locations	425



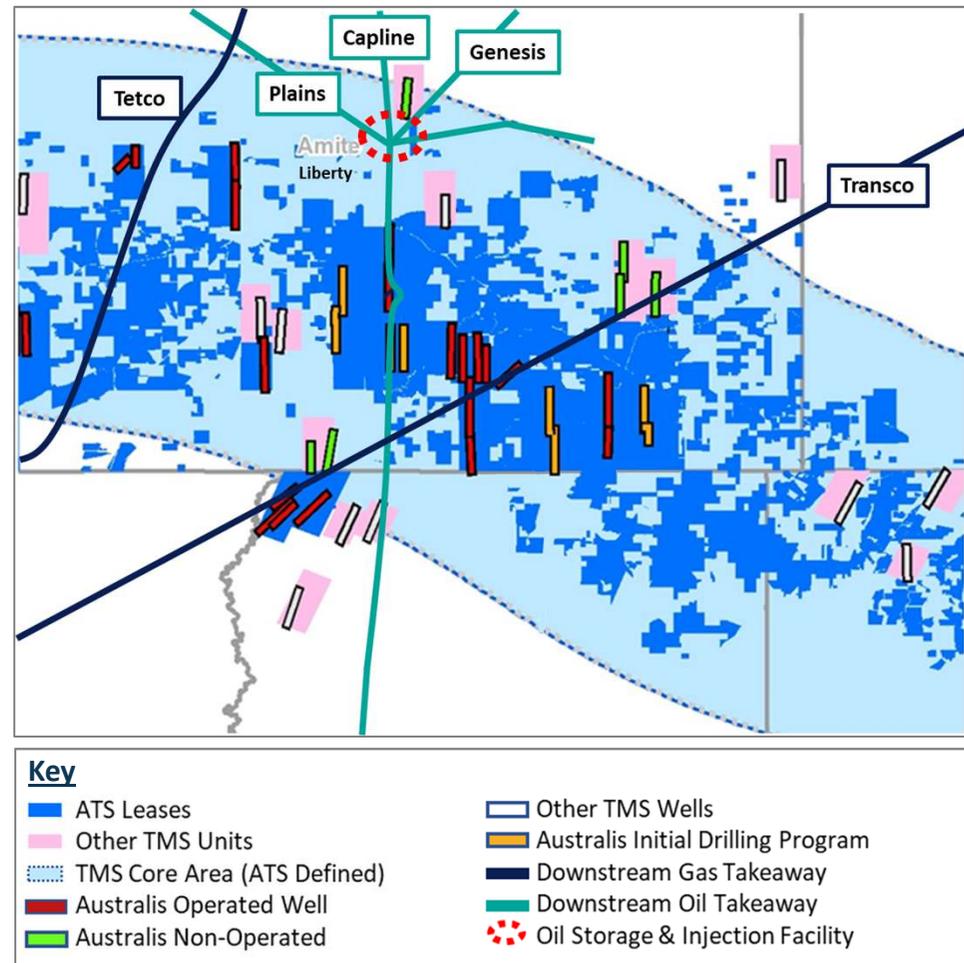
# Proximity to accessible infrastructure & premium pricing

## A key differentiator for the TMS compared to other US unconventional plays

- The TMS produces a light sweet crude (38–41 deg API) that achieves LLS pricing, i.e. an average premium to WTI of \$5.50/bbl in Q1 and \$7.00/bbl in Q2
- Permian peer group averaged a \$4.05 deduct to WTI in Q1 2019<sup>A</sup>
- Modest transportation costs (~US\$1/bbl) due to
  - Access to significant existing infrastructure with capacity
  - Multiple local sales markets
- Permian and Eagle Ford peer group transportation ranges US\$0.5 - \$9/boe<sup>A</sup>
- Access to water, roads and power
- Local and nearby service providers



TMS Infrastructure

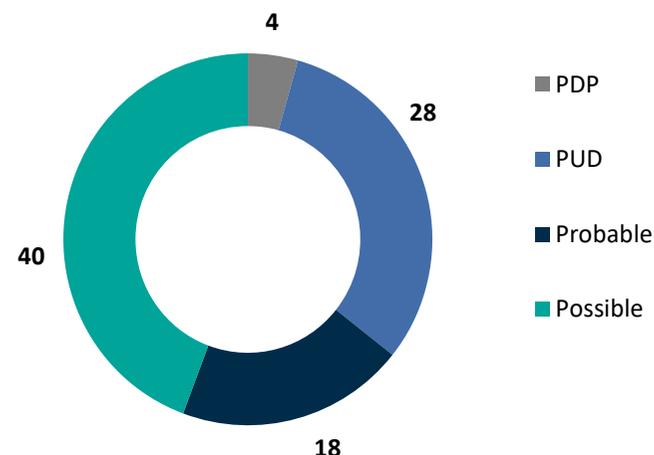


# Significant oil reserve and resource position in TMS

- 197 MMbbls net recoverable oil independently assessed as at 31 December 2018<sup>1</sup>, based on 110,000 net acres in TMS Core
  - Includes Proved and Probable reserves of 50 MMbbl
  - PDP reserve of 4 MMbbl and is valued at NPV10 \$83 million
- Acreage position increased to 115,000 net acres and using the same methodology as the YE18 reserves added a further 9 MMbbl 2C contingent resource<sup>2</sup>
- As the development drilling progresses the Company expects further conversion of contingent resources and Possible reserves to Proved and Probable reserves
- Recoverable oil inventory priced at US\$0.70/bbl per the ATS enterprise value<sup>A</sup> (US\$0.29 if deduct PDP NPV10), which is significantly below typical onshore bbl price range.

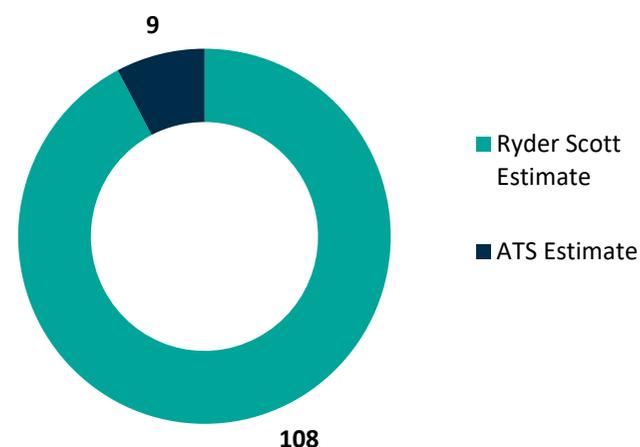
Reserves (acreage assessed for development)<sup>1</sup>

89 MMbbl



2C Resources (acreage assessed for development)<sup>1,2</sup>

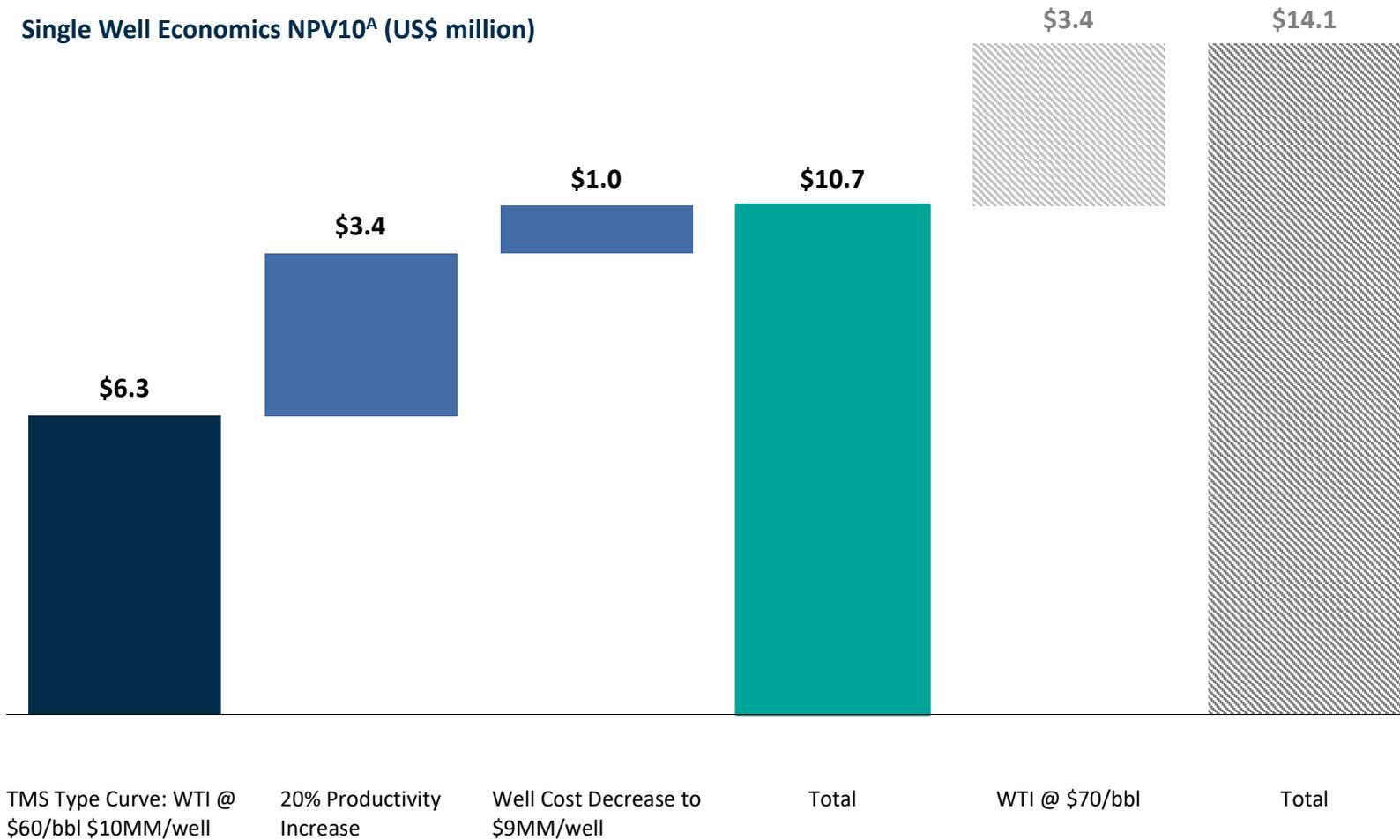
117 MMbbl



# Large well inventory each with attractive economics

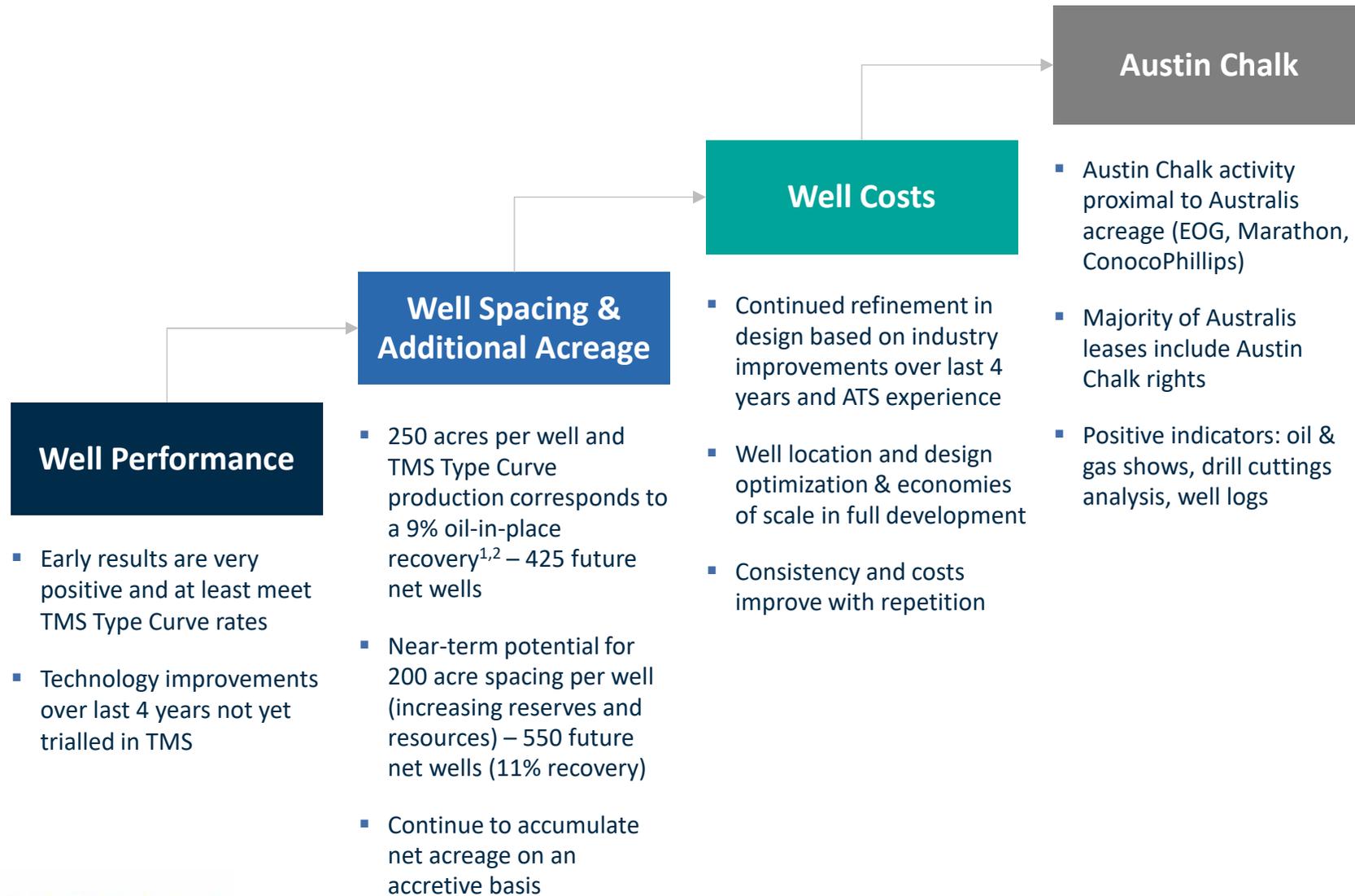
Australis has 425 net well locations which each have a base value of US\$6.3 million without including upside

Single Well Economics NPV10<sup>A</sup> (US\$ million)



# Multiple catalysts for upside

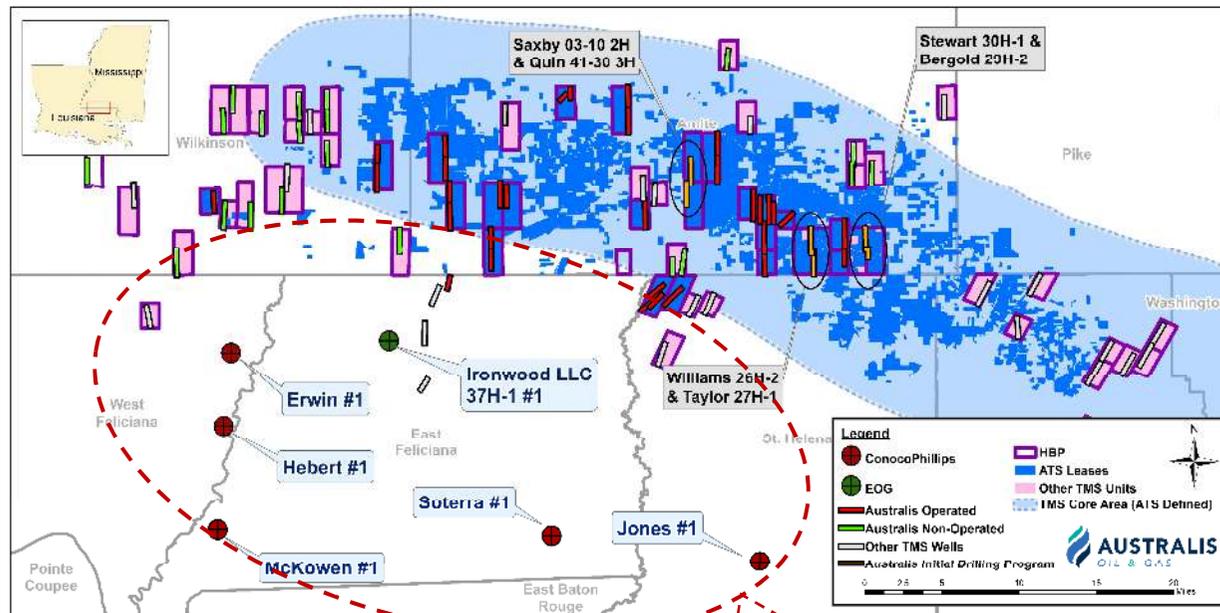
Valuation based on conservative assumptions – each component has upside



# Significant Austin Chalk optionality

## Further upside from the Austin Chalk at nominal additional cost

- Austin Chalk rights over significant majority of acreage
- Prospective indicators for Austin Chalk
  - Strong hydrocarbon C1 – C5 shows whilst drilling all 6 new ATS wells
  - Recent and historical log data across Austin Chalk on our acreage demonstrates porosity and conductive natural fractures
  - ATS position proximal to major US companies targeting exploration Louisiana Austin Chalk (EOG, ConocoPhillips)
  - Austin Chalk leasing and acquisition rates of up to ~US\$1,000/acre in offset areas
- Benefit to ATS from additional data gathered from Austin Chalk from current TMS drilling programs



EOG, ConocoPhillips Austin Chalk drilling locations and acreage

# Financial

## Balance sheet, cashflow & financing provides capacity for the initial drilling program

- Cash flow from operations continues to grow and funds G&A and leasing activities
- Capex spend on Initial Drilling Program remains on budget
- Initial 4 wells average D, C & T cost <US\$11m each
- Australis has sufficient funding capacity to continue the current drilling program into 2020
  - US\$20 million drawn under the US\$75 million Macquarie Facility
  - Access up to a further US\$45 million with an additional US\$10 million available once certain production thresholds are met
- Asset provides flexibility and control on future capital spending.
- Australis expects to have a range of alternatives available after the initial drilling program
- Short term hedging (>50% of net production) over next 12 months protects operational cashflow cash

Key Metrics	Unit	Q2 2019	Q1 2019	Qtr on Qtr	H1 2019
Sales Volumes (WI)	bbls	235,000	206,000	14%	441,000
Average WTI	US\$/bbl	\$59.8	\$54.9	9%	\$57.4
ATS Avg. Realised Price	US\$/bbl	\$66.8	\$60.4	11%	\$63.8
Sales Revenue (WI)	US\$MM	\$15.7	\$12.4	27%	\$28.1
Sales Revenue (Net)	US\$MM	\$12.8	\$10.2	25%	\$23.0
Field Netback	US\$MM	\$8.0	\$7.1	13%	\$15.1
Field Netback / bbl	US\$/bbl	\$34	\$34	-	\$34
EBITDA	US\$MM	\$4.1	\$3.3	24%	\$7.4
Cash Balance	US\$MM	\$29.7	\$37.1	(20%)	\$29.7

### Hedge Position - WTI Collars – as at 1 July 2019

Hedge Period	Volumes	WTI Put	WTI Call
	bbls	US\$/bbl	US\$/bbl
H2 2019	211,000	\$54	\$77
H1 2020	127,000	\$54	\$73
H2 2020	30,000	\$55	\$77
H1 2021	7,000	\$55	\$73

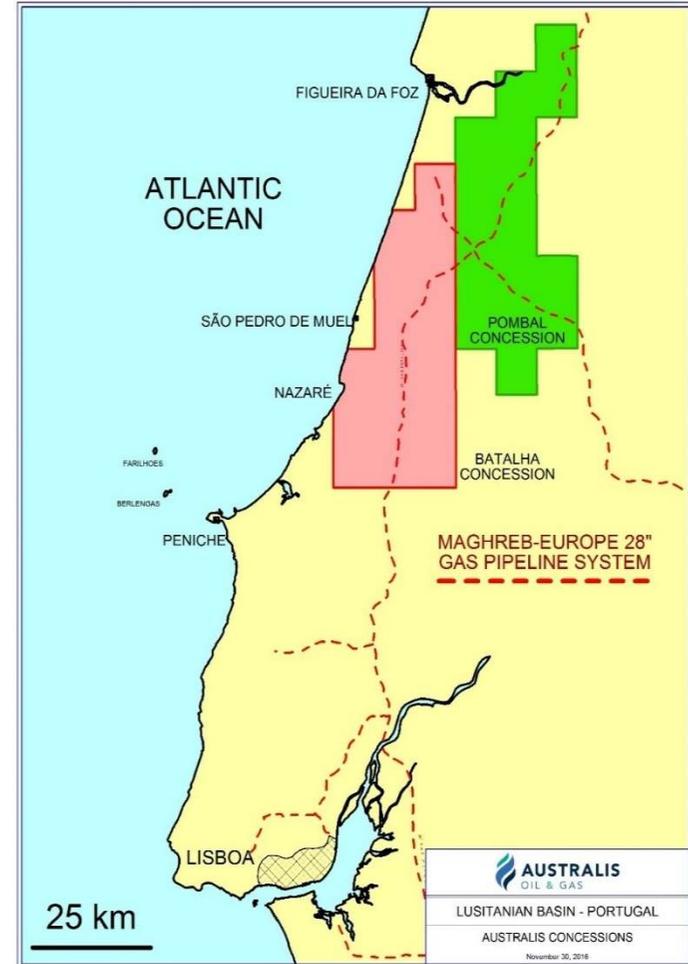
# Portugal appraisal opportunity

## Australis holds two onshore concessions in Portugal with significant gas resources

- Two concessions awarded in 2015 with significant past work undertaken and existing gas discoveries
- Currently progressing comprehensive EIA studies
- Next step to drill and test the gas discovery with an appraisal well

<b>Resources</b>	<ul style="list-style-type: none"> <li>- Existing gas play in the post-salt early Jurassic limestone</li> <li>- A number of 2D and 3D defined conventional gas prospects in Jurassic and the deeper pre-salt Silves formation</li> <li>- Active hydrocarbon system tested with historical wells</li> </ul>
<b>Appraisal</b>	<ul style="list-style-type: none"> <li>- Significant gas discovery to be appraised and tested</li> <li>- 2C resources of 458 Bcf<sup>3</sup></li> </ul>
<b>Established Infrastructure</b>	<ul style="list-style-type: none"> <li>- Gas pipeline infrastructure with excess capacity crosses both concessions</li> <li>- Modern road system with easy access to exploration and development areas</li> </ul>
<b>Favourable Gas Markets</b>	<ul style="list-style-type: none"> <li>- All oil and gas currently imported, domestic market undersupplied</li> <li>- Attractive commodity pricing above US\$7/GJ</li> </ul>

### Asset Location



# Experienced team and strategy drives shareholder returns

Delivering on a clearly defined and established strategy

## Proven Execution Capability

- Board and management were the founders and key executives of Aurora Oil & Gas
- Experienced in identifying, developing, operating, funding and monetising oil & gas assets
- Proven track record in building shareholder value (Aurora A\$0.20/share to A\$4.20/share)

## Sustainability

- Cultural commitment to safety, environment and communities
- Excellent EHS track record
- Compensation tied to EHS performance
- Inclusive and diverse workforce



## Shareholder Return Driven

- Board and Management own 11% of the Company
- Clearly stated strategy of generating shareholder value
- Board and Management 100% aligned with shareholders

## Technical Expertise & Teamwork

- Significant technical and operating expertise in US unconventional plays
- Extensive planning and preparation to execute operations successfully
- Real time data capture and knowledge building
- Multi-disciplinary teamwork

# Additional Information



# Directors & Management

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## Jon Stewart

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### Non-Executive Chairman

- >25 years in the upstream oil and gas industry
- Founder and former Chairman and CEO of Aurora Oil & Gas
- Founder & Director of Dana Petroleum and EuroSov Petroleum PLC (CEO) (1999 merger with Sibir Energy PLC - MD)
- EY 2014 Australian Entrepreneur of the Year – Listed Company Category
- Qualified Chartered Accountant

## Ian Lusted

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### Managing Director & CEO

- >25 years in the upstream oil and gas industry
- Former Technical Director of Aurora Oil & Gas
- Founder of Leading Edge Advantage, an advanced drilling project management consultancy
- Founder and Technical Director Cape Energy, a private equity backed oil and gas company
- Drilling engineer / supervisor at Shell International

## Darren Wasylucha

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### Chief Corporate Officer

- Former Executive VP Corporate Affairs for Aurora 2011 to 2014
- Corporate finance lawyer with over 20 years' experience advising public and private companies

## Alan Watson

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### Non-Executive Director

- 30 years previous experience in international investment banking
- Former Non Exec Director of Aurora Oil & Gas
- Chairman of Pinnacle Investment Management Group Limited (ASX:PNI)

## Graham Dowland

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### Finance Director & CFO

- >25 years experience in the oil and gas industry
- Founding and former Finance Director of Aurora Oil & Gas
- Former Executive Director of Hardman Resources NL
- Former Finance Director of EuroSov Petroleum PLC and Sibir Energy PLC
- Qualified Chartered Accountant

## Mal Bult

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### VP Corporate & Business Development

- Former VP commercial at Aurora 2008 – 2012
- Over 20 years' experience in oil and gas industry

## Steve Scudamore

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### Non-Executive Director

- Over 3 decades experience in Corporate Finance with KPMG Australia, London and PNG
- Senior roles with KPMG include Chairman (WA) and National head of valuations
- Non-Executive Director at Pilbara Minerals and Regis Resources.
- Former Non Exec Director of Aquila Resources and Altona Mining

## Michael Verm

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### Chief Operating Officer

- >35 years experience in the oil & gas industry
- Petroleum Engineer
- Former COO of Aurora Oil & Gas
- Former President and Managing Director of Kerr-McGee China Petroleum

## Julie Foster

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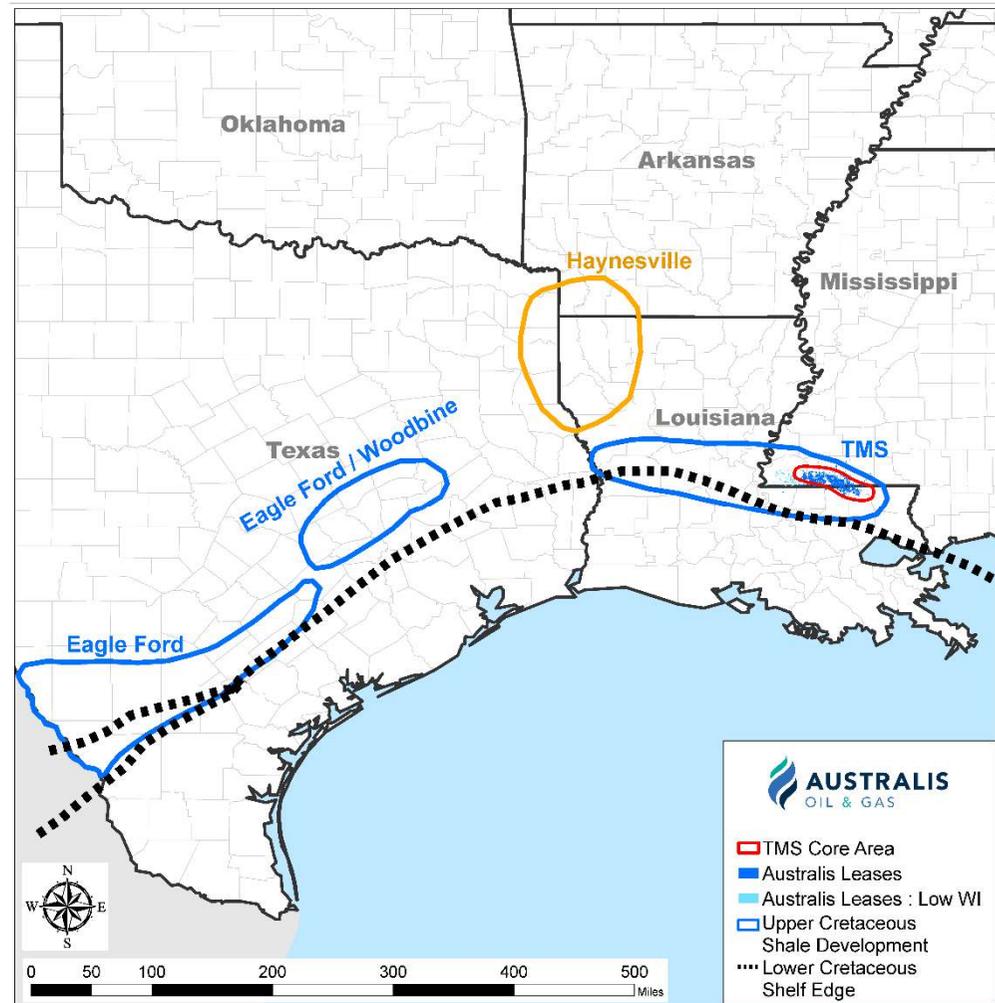
### VP Finance & Company Secretary

- Former Group Controller and Company secretary of Aurora 2009 to 2014
- Chartered accountant UK and Wales with over 20 years' experience

# TMS is an emerging shale play

- Onshore basin - Louisiana and Mississippi.
- On trend with Eagle Ford Basin in Texas, similar depositional history and age.
- 80 horizontal wells were drilled from 2010 to 2014 and have delineated the Core Area.
- Performance from the early drilled wells was variable and unusually binary - either in or outside of the core area.
- The wells drilled in 2014 in the core of the TMS demonstrated consistently high oil productivity and downward trending well costs
- Initial Australis well results continue this trend

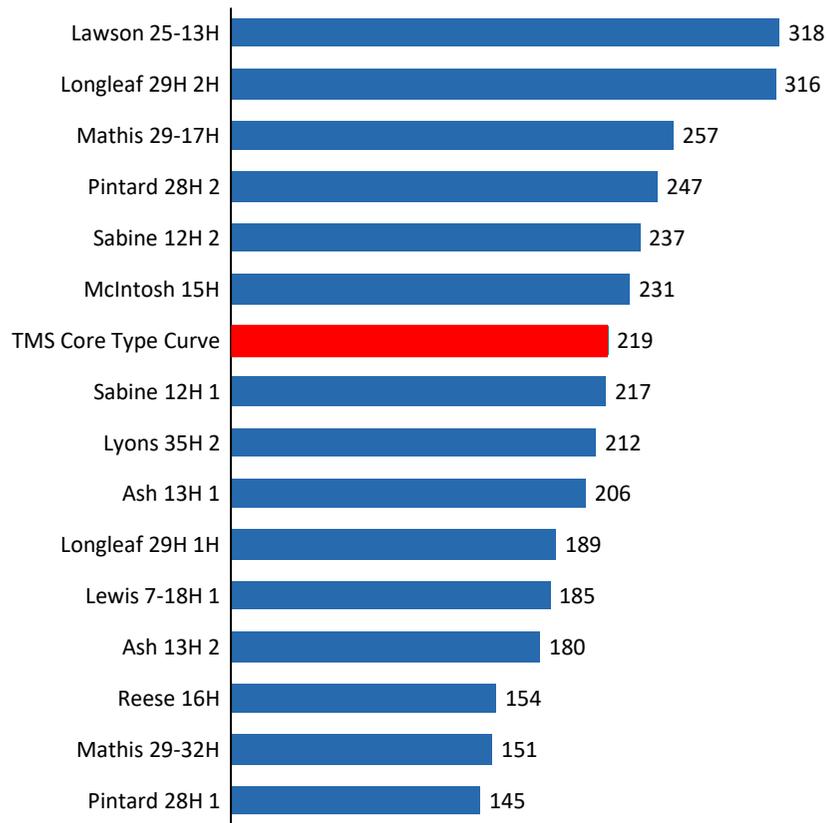
## TMS Location



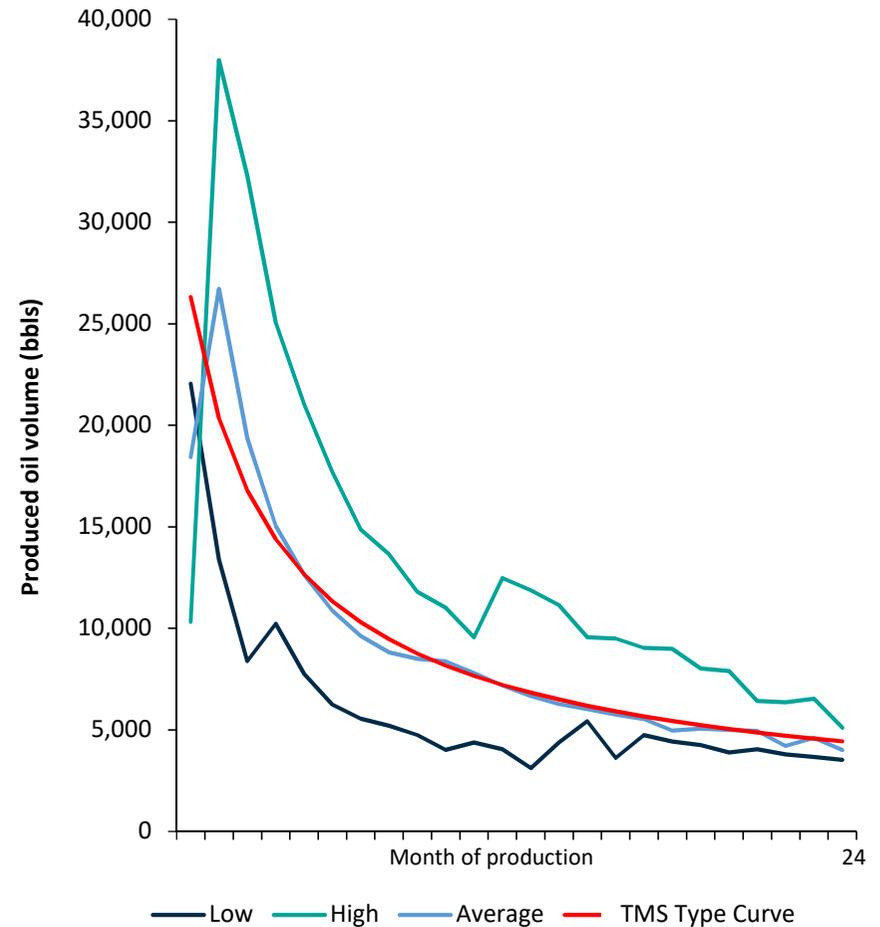
# What is the TMS Type Curve?

The TMS Type Curve is the average production profile of all 15 Australis wells drilled by the previous operator in 2014

**Total oil production per well - initial 24 months (mbbls)**



**2014 Australis wells - Production profiles**



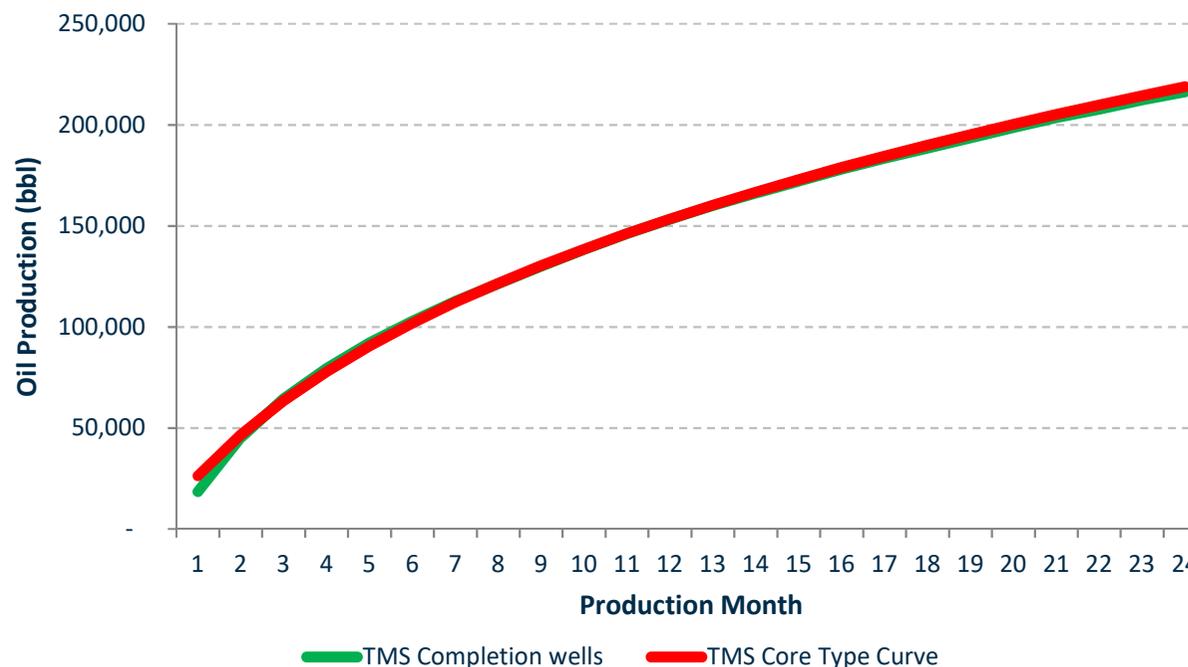
# Single Well TMS Type Curve

TMS Type Curve is a conservative history match to averaged empirical data

## TMS Type Curve – Assumptions

- Oil EUR – 610 Mbbls
- Gas EUR – 159 MMscf
- NGL EUR – 20 Mbbls
- EUR (30 yr) – 656 Mboe  
(97% liquids)

## TMS Core Type Curve v TMS Production



Type Curve	Well EUR	Basis
TMS Core	656 Mboe	History match average of the most recent 15 wells spudded by Encana in 2014 (~7,200 ft stimulated lateral) <sup>5</sup>
TMS Productivity Upside	787 Mboe	20% uplift of the TMS Core Type Curve reflecting less than the industry average improvement in well performance (normalised) since 2014

# TMS Base Case Economics – Key Assumptions

The production and opex assumptions are based on history and the capex costs are current development projections

## Base Case Assumptions\*

### EUR (30 Years)

Gas	0.16	Bcf
Oil/Condensate	610	Mbbl
NGLs	20	Mbbl

EUR/well 656 Mboe

### Well Cost US\$

Drilling	\$4.0	million
Completion	\$5.0	million
Tie in	\$1.0	million
<b>Total Well Cost</b>	<b>\$10.0</b>	<b>million</b>

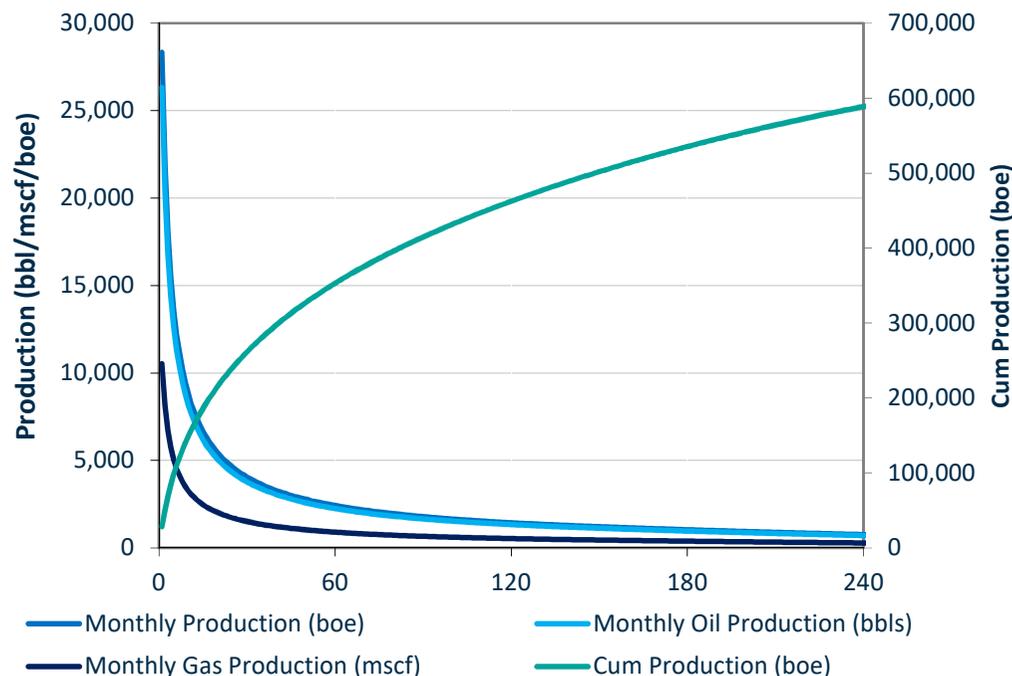
### Operating Expenditure US\$

Fixed Opex	\$13,700	/well/month
Variable Opex <sup>A</sup>	\$2.8	per boe

### Other Assumptions

NRI	80%	
Realised Differential <sup>B</sup>	\$4.00	\$ per bbl
Abandonment cost	1.0%	of well cost
Escalation	2.0%	

## Production Forecast



Oil Price - WTI US\$/bbl	Cashflow US\$ million	Pre-tax NPV10 US\$ million	IRR %	Payback Months
\$50	\$9.4	\$3.4	24%	34
\$60	\$14.0	\$6.3	39%	22
\$70	\$18.6	\$9.1	57%	16

A. Includes water disposal

B. Australis sells its oil at LLS benchmark, which trades at a premium to WTI. Realised differential represents LLS premium less lifting deduct. The \$4 differential is a conservative estimate considering the current realised differential is >\$6/bbl

\* Economics based on 20 year cash flows from first production

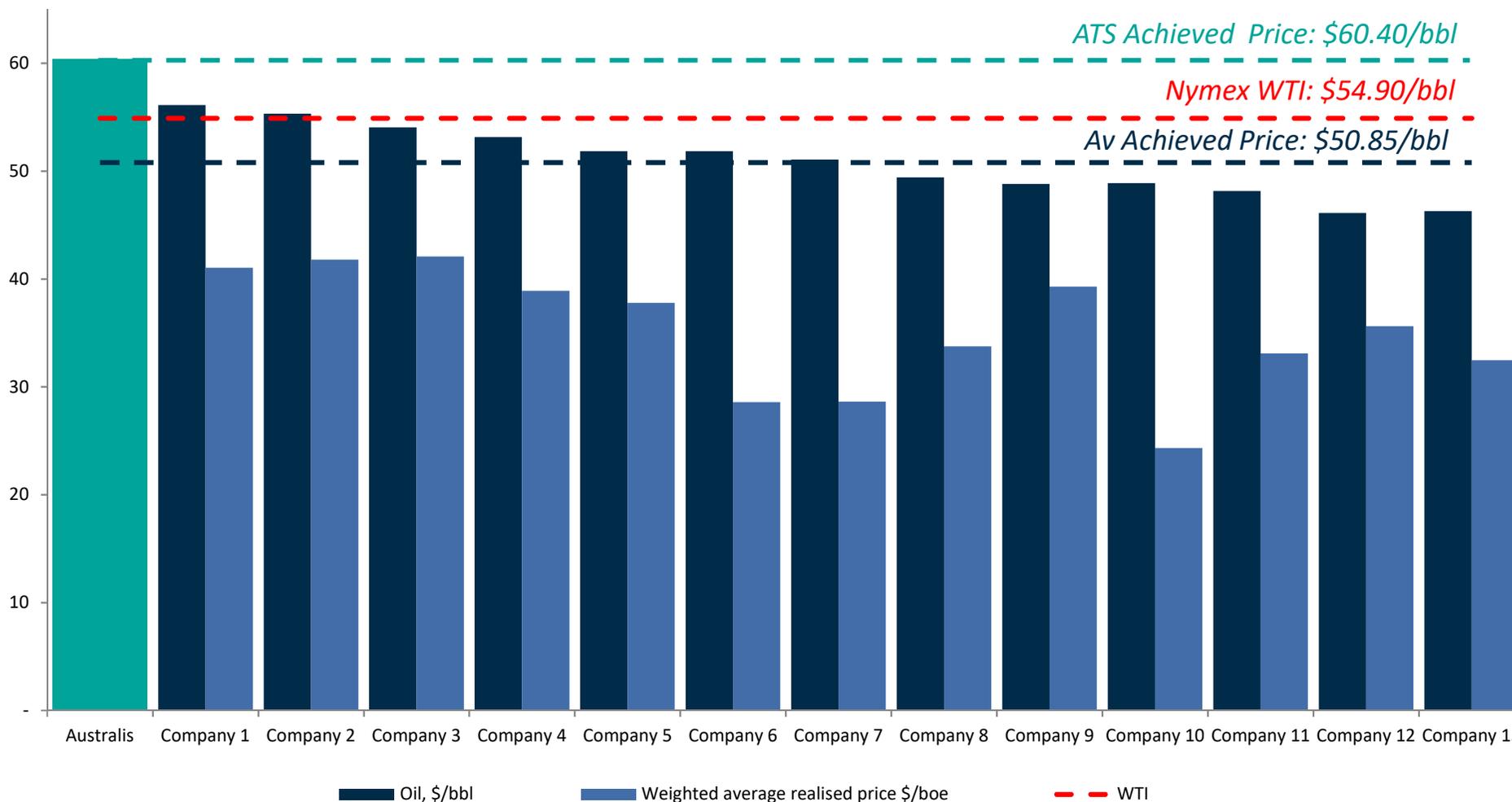
# TMS Reserves & Resources<sup>1,2</sup>

- As an ASX participant Australis reports to the SPE PRMS which requires any undeveloped reserves, that are to be assessed for reserves classification, are to be developed within a maximum 5 year timeframe.
- For the purposes of the YE18 reserve assessment, the TMS development assumed 1 rig until Oct 2019, 2 rigs from Oct 2019, 3 rigs from July 2020 and 4 rigs from July 2021, focusing on HBP acreage and 9 undeveloped units, which is equivalent to ~38% of the Australis net acreage within the TMS core area and a total of 184 gross wells.
- Remaining acreage that has not been assessed for reserves was allocated contingent resource.
- The assumptions used for the reserves remains 250 acre spacing and the recovery factor for the resources is 9%
- In early April 2019 Australis advised it had increased its acreage position to 115,000 net acres and using the same methodology as the YE18 reserves added a further 9 MMbbl 2C contingent resource<sup>2</sup>

2018 Ryder Scott Reserves Estimate	Net Oil (MMbbls)
Proved Developed Producing	3.9
Proved Undeveloped	27.9
<b>Total Proved (1P)</b>	<b>31.9</b>
Probable	17.9
<b>Total Proved + Probable (2P)</b>	<b>49.7</b>
Possible	39.5
<b>Total Proved + Probable + Possible (3P)</b>	<b>89.2 (A)</b>
Low contingent resource (1C)	6.9
<b>Most likely contingent resource (2C)</b>	<b>107.8</b>
High contingent resource (3C)	195.4
Additional 2C resource (+ 5,000 acres)	9
<b>Total Most likely contingent resource (2C)</b>	<b>116.8 (B)</b>
<b>Recoverable Resource estimate (A + B)</b>	<b>206</b>

# Australis' production realises higher prices than peers

- TMS produces quality light sweet crude, 41-39 API, sold at a Q1 premium of \$5.50/bbl to WTI (Q2 \$7/bbl)
- Average achieved oil price of Eagle Ford and Permian based companies was a \$4.05/bbl deduct to WTI
- Therefore ATS achieved 19% premium to average of other companies.



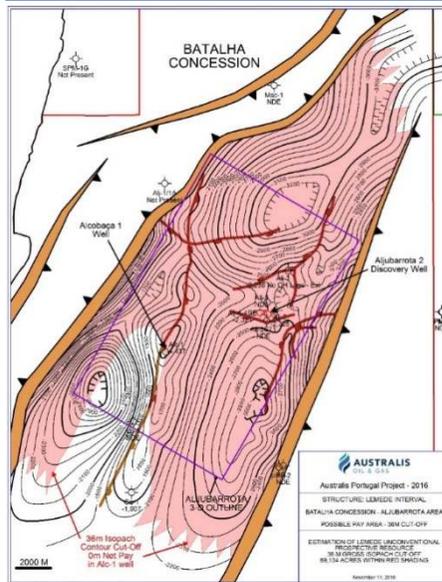
Peers include Companies active in Permian, Eagle Ford and other onshore shale plays: CDEV, COP, CRZO, DVN, EOG, FANG, HK, JAG, LLEX, MRO, PDCE, PE, XEC  
 NB: excludes marketing, transportation, and gathering expenses, which ranges by company from \$0.50/boe to >\$9/boe<sup>6</sup>

# Portugal Prospectivity & Volumetrics

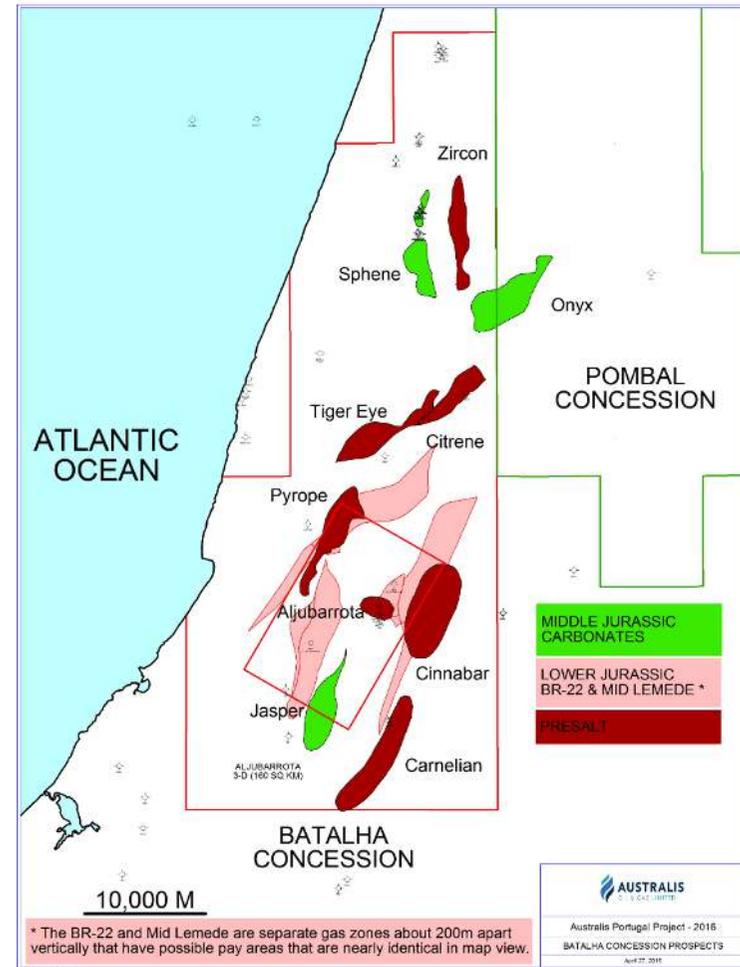
## Proposed Work Program

- Drill and test the gas discovery with a vertical well
- Drill and core a deep Lamede well in a Lower Jurassic depocenter in the Pombal concession

## Batalha Gas Discovery



## Batalha Concession Prospects



## Volumetrics <sup>3,6</sup>

	Net Contingent Resources			Net Risked Prospective Resources <sup>(A)</sup>		
	1C	2C	3C	Low	Best	High
Oil (MMbbl)	-	-	-	19.2	126.4	448.4
Gas (Bcf)	217.4	458.5	817.7	104.3	466.0	1,632.4
Oil Equivalent (MMboe)	36.2	76.4	136.3	36.6	204.1	720.4

(A): It should be noted that the estimated quantities of petroleum that may be potentially recovered by the future application of a development project may relate to undiscovered accumulations. These estimates should have the associated risk of discovery and development. Further exploration and appraisal is required to determine the existence of a significant quantity of potentially moveable hydrocarbons.

# Footnotes

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1. All estimates and risk factors taken from Ryder Scott, report prepared as at 31 December 2018 and generated for the Australis concessions to SPE standards. See ASX announcement released on 6 February 2019 titled "Reserves and Resources Update Year End 2018". The analysis was based on a land holding of 110,000 net acres. Australis is not aware of any new information or data that materially affects the information included in the referenced announcement and all the material assumptions and technical parameters underpinning the estimates in the original announcement continue to apply and have not materially changed. Ryder Scott generated their independent reserve and contingent resource estimates using a deterministic method which is based on a qualitative assessment of relative uncertainty using consistent interpretation guidelines. The independent engineers using a deterministic incremental (risk based) approach estimate the quantities at each level of uncertainty discretely and separately.
2. The 2C Resource estimate has been generated by Australis effective 4 April 2019 in accordance the definitions and disclosure guidelines contained in the Society of Petroleum Engineers (SPE), World Petroleum Council (WPC), American Association of Petroleum Geologists (AAPG), and Society of Petroleum Evaluation Engineers (SPEE) Petroleum Resources Management (SPE-PRMS) as revised in June 2018. The analysis was based on methodology applied within the report prepared by Ryder Scott as at 31 December 2018 (See ASX announcement released on 6 February 2019 titled "Reserves and Resources Update Year End 2018"). Ryder Scott presumed a 9% recovery factor from the mid case oil in place estimates when assessing the 2C Resources attributable to a land holding of 110,000 net acres. Maintaining the same average recovery factor, the additional 5,000 net acres is attributed a 2C Resource of 9 million barrels (Australis estimate). This contingent resource estimate is based on, and fairly represents, information and supporting documentation, prepared by, or under the supervision of, Michael Verm, P.E., who is an employee (Chief Operating Officer) of Australis. Mr Verm is a member of the Society of Petroleum Engineers and a Professional Engineer in the State of Texas. The reserve and resource information pertaining to the Tuscaloosa Marine Shale in this announcement has been issued with the prior written consent of Mr Verm in the form and context in which it appears.
3. All estimates and risk factors taken from Netherland, Sewell & Associates, report prepared as at 31 December 2016 and generated for the Australis concessions to SPE standards. See announcement titled "2016 Year End Resource Update" dated 25 January 2017. Australis is not aware of any new information or data that materially affects the information included in the referenced announcement and all the material assumptions and technical parameters underpinning the estimates in the original announcement continue to apply and have not materially changed. The contingent resource estimates are located in the Batalha Concession. NSAI generated their independent contingent resource estimates using a combination of deterministic and probabilistic methods
4. Includes 3P Reserves of 89.2 MMbbl and 2C Resources of 116.8 MMbbl – see notes 1 & 2.
5. Base Case Type Curve averaging last 15 wells. The 15 Mississippi ATS wells are detailed in the appendix slide titled "What is the TMS Type Curve" and "TMS Base Case Economics – Key Assumptions"
6. Oil equivalent volumes are expressed in thousands of barrels of oil equivalent (Mboe), determined using the ratio of 6 Mscf of gas to 1 bbl of oil

# Units & Abbreviations

Unit	Measure	Unit	Measure
B	Prefix - Billions	bbl	Barrel of oil
MM or mm	Prefix - Millions	boe	Barrel of oil equivalent (1bbl = 6 mscf)
M or m	Prefix - Thousands	scf	Standard cubic foot of gas
/d	Suffix - per day	Bcf	Billion standard cubic foot of gas

Abbreviation	Description
TMS Core	The Australis designated productive core area of the TMS delineated by production history
WI	Working Interest
C	Contingent Resources – 1C/2C/3C – low/most likely/high
NRI	Net Revenue Interest (after royalty)
Net	Working Interest after deduction of Royalty Interests
NPV (10)	Net Present Value (discount rate), before income tax
HBP	Held by Production (lease obligations met)
EUR	Estimated Ultimate Recovery per well
WTI	West Texas Intermediate Oil Benchmark Price
LLS	Louisiana Light Sweet Oil Benchmark Price
2D / 3D	2 dimensional and 3 dimensional seismic surveys
PDP	Proved Developed Producing
PUD	Proved Undeveloped Producing
2P	Proved plus Probable Reserves
3P	Proved plus Probable plus Possible Reserves
D, C & T	Drilling, Completion, Tie In and Artificial Lift
Royalty Interest or Royalty	Interest in a leasehold area providing the holder with the right to receive a share of production associated with the leasehold area
Field Netback	Oil and gas sales net of royalties, production and state taxes and operating expenses
EBITDA	Earning before interest, tax, depreciation, depletion and amortisation
Net Acres	Working Interest before deduction of Royalty Interests
IP24	The peak oil production rate over 24 hours of production
IP30	The average oil production rate over the first 30 days of production