

27 August 2014

**ASX Company Announcements Office** 

#### **Icon Energy Ltd Presentation**

Please find attached copy of a presentation to be delivered to the Developing Unconventional Gas (DUG) conference in Brisbane on 27 August 2014

Yours faithfully

**Ross Mallett** 

Company Secretary

Icon Energy Limited ABN 61 058 454 569

P 07 5554 7111 F 07 5554 7100

PO Box 2004 Broadbeach QLD 4218 Australia

in fo@iconenergy.com

www.iconenergy.com





**DUG Conference Brisbane** 

27 August 2014

**Raymond James Managing Director** 



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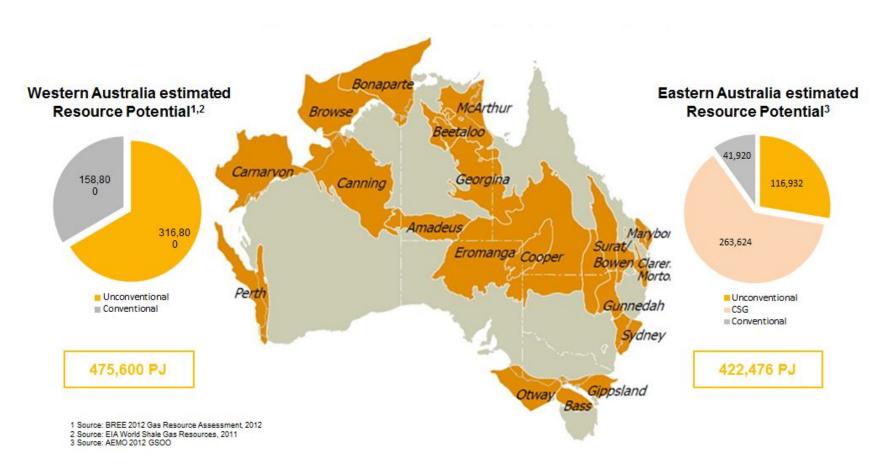
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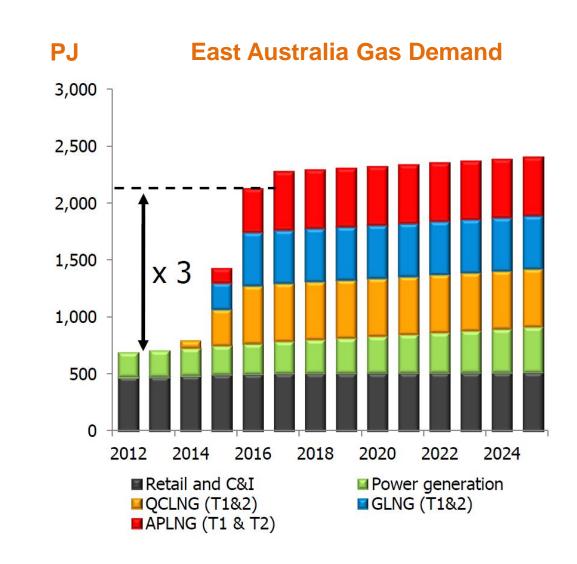


Australia has vast gas resources of ~900Tcf from conventional, CSG and other unconventional resources



# Gas market is changing rapidly

- Annual gas demand set to triple by 2016
- Peak winter demand in South Australia is key for NSW
- Individual States will prioritise own gas supplies
- New gas discoveries and production critical to NSW and Australian economy



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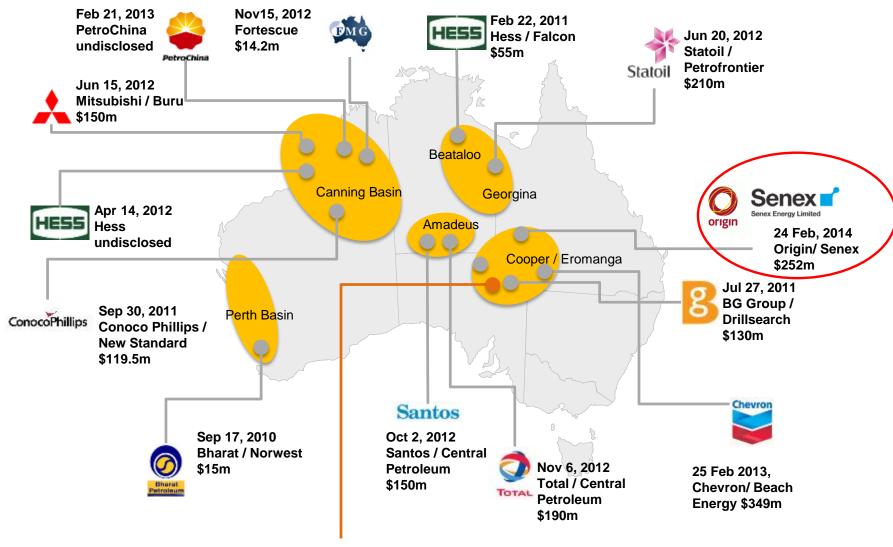
In less than 20 months gas demand to triple



# Significant investment through to 2017 will see around 85 mtpa<sup>1</sup> of LNG capacity on line across Australia ...







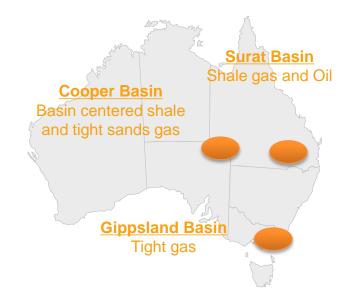
Drillsearch offer for Ambassador Oil & Gas 73% above closing price, 23 May 2014



## Icon Energy is a company focussed on unconventional gas with access to a potential world class multi-Tcf gas resource base

- Formed in 1993, Icon Energy (ASX:ICN) has interests in three prolific hydrocarbon basins
  - Cooper Basin: Discovered major unconventional gas resource, (basin centered gas play) in the Nappamerri Trough
  - Surat Basin: Gas and Oil resource potential
  - Gippsland Basin: Highly prospective tight gas onshore acreage in a prolific oil and gas producing basin. On hold pending Victorian Government policy review
  - Icon Energy holds a number of other permits in the Cooper Basin permits

Share Price <sup>1</sup>	\$0.165
	ψ0.105
Shares on Issue	615.8m
Market Capitalisation <sup>1</sup>	\$101.6m
Cash <sup>2</sup>	\$25.2m
Debt <sup>2</sup>	Nil
2C Contingent Resource (gross) <sup>3</sup>	629bcf





### World class resource

- EIA reports that Australia has, 437Tcf TRR of Shale Gas<sub>1</sub>
- Wells drilled to date in ATP 855 have intersected overpressured gaseous formations in Permian
- Halifax-1 flowed
   4.2MMscf/d, highest flow
   rate from a shale gas well in the Cooper Basin
- Commercial Shale Gas well: Moomba -191 is nearby in the shallower western end of the Nappamerri Trough (SACBJV)



### Upcoming catalysts

- Multi-stage hydraulic stimulation of Hervey-1, Geoffrey-1, Redland-1 and Etty-1 to commence in September 2014
- Flow testing of Hervey-1 in September and Geoffrey-1, Redland-1 and Etty-1 to commence in October 2014
- Decline curve performance identified against commercial criteria
- Ongoing Contingent
  Resource evaluation in ATP
  855 around the 4 stimulated
  wells



## Commercialisation opportunity

- Potential to monetise early gas production via existing infrastructure
- High demand for natural gas in NSW and feed gas for LNG plants in Gladstone
- With successful exploration, potential appraisal and tieback to infrastructure in 2015- 2016

### Strong balance sheet

- Cash in hand A\$25.2m (as at 31 July 2014)
- No Debt
- Placement in December 2013, raised A\$18.8million at A\$ 0.235
- Fully funded for current hydraulic stimulation and flow testing program
- Icon Energy have 35.1% of ATP 855

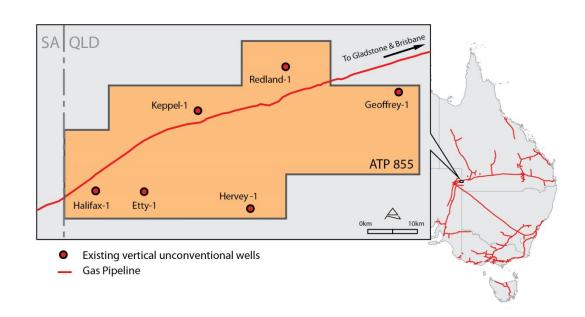






## Icon Energy holds 35.1% interest in ATP 855 (414,000 gross acres) located in the Nappamerri Trough in the Cooper Basin

- Basin centered gas play in permian section
- Drilled six deep unconventional gas wells
- Announced four petroleum discoveries; Halifax-1, Keppel- 1, Redland-1 and Etty-1
- Halifax-1 4.2MMScf/d highest flow rate of shale gas well in Cooper Basin
- Keppel-1 gas flowed to surface without stimulation
- Sales and raw gas pipelines traverse ATP855
- Thicker formations: REM> 500 metres, Patchawarra <900metres</li>
- Over pressured zones
- Queensland Government granted an extension of two years (4 to 6 years) for the existing work program in ATP 855



#### **ATP 855 ownership interests**

Current ownership	Ownership should Chevron complete Stage 2 farm-in
Beach – 46.9% (Operator)	Chevron – 36% (Operator)
lcon – 35.1%	Icon – 35.1%
Chevron – 18%	Beach - 28.9%

resource booking



#### Completed six well drilling program all with significant gas shows

Well	Halifax-1	Keppel-1	Redland -1	Hervey-1	Geoffrey-1	Etty -1
TD	4,267m	3,898m	3,804m	4,269m	4,125m	3,807m
Gas Shows	Yes	Yes	Yes	Yes	Yes	Yes
Stimulation stages	14	N/A	To be hydraulic stimulated early September 2014			
Max. flow rate	4.2MMscf/d	Flowed gas to surface unstimulated	To so nyaraano ominalatoa oany coptomisor zo n			
2C Contingent resources (gross)	629bcf	ТВА	ТВА	ТВА	ТВА	ТВА
Comments	Highest gas flow rate from unconventional shale gas well in Cooper Basin	Flowed gas to surface unstimulated	Target interval gas saturated supported by mud gas readings			
Significant flow rates and All wells have had						

significant gas shows

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#### **Condor Energy Services Hydraulic Stimulation ATP 855**





Condor Hydraulic Stimulation Pump

Condor Hydraulic Stimulation Spread





Condor Blender

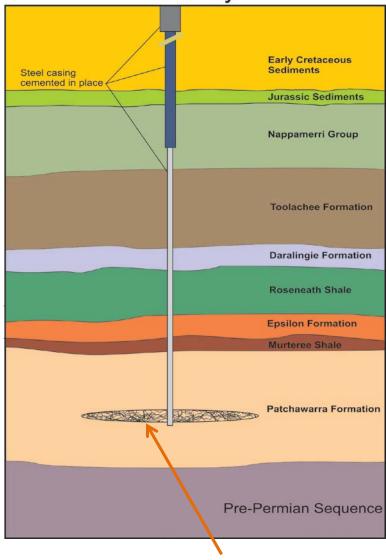
Condor Energy Services Field Operators



Hervey-1 **Early Cretaceous** Sediments Steel casing cemented in place **Jurassic Sediments** Nappamerri Group **Toolachee Formation Daralingie Formation** Roseneath Shale **Epsilon Formation** Murteree Shale Patchawarra Formation Pre-Permian Sequence

Five stage hydraulic stimulation targeting the upper Patchawarra



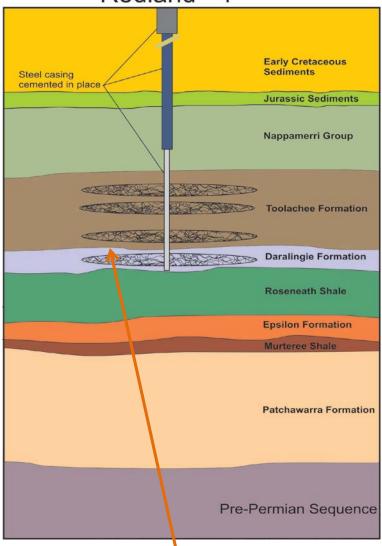


One stage hydraulic stimulation targeting the mid Patchawarra<sub>1</sub>

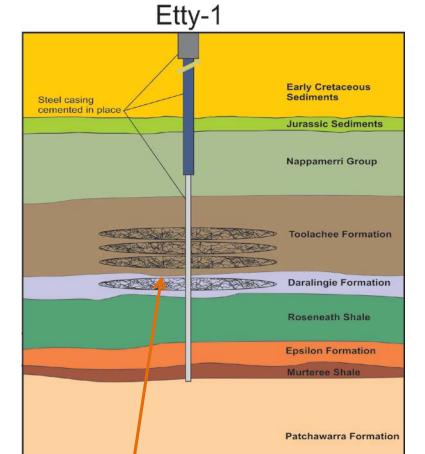




Redland - 1



Four stage hydraulic stimulations targeting the Toolachee and Daralingie formations



Four stage hydraulic stimulations targeting the Toolachee and Daralingie formations

Pre-Permian Sequence



#### **Gross Unconventional Recoverable Prospective Raw Natural Gas Resource ATP 855**

Gross Unconventional Prospective Raw Natural Gas (Tcf) <sup>1</sup>	Low Estimate (P90)	Best Estimate (P50)	High Estimate (P10)
Gross (TCF)	21.48	28.49	37.74
Nett (Icon 35.1%) (Tcf)	7.65	10.00	13.25

#### **10Tcf Prospective Resource**

#### **Contingent Resource is around the Halifax 1 well only**

Contingent Resources <sup>2</sup>	1C	2C	3C
Gross (Bcf)	318	629	1,115
Net (Icon 35.1%) (Bcf)	112	221	391

#### 221 Bcf 2C and 391 Bcf 3C Contingent Resource

<sup>&</sup>lt;sup>1</sup> Announced to the ASX on 26th August 2013

<sup>&</sup>lt;sup>2</sup> Announced to the ASX on 19th June 2014







Ensign 965 drill floor depth monitor



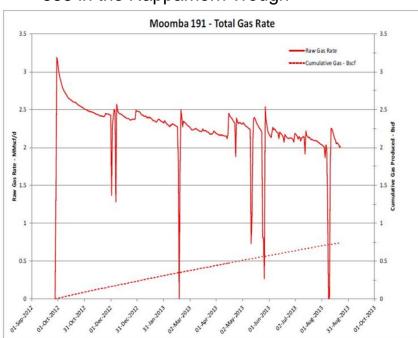
**Etty-1 well head** 

**Ensign 965 drilling rig** 



#### Moomba – 191 Australia's first commercial shale gas production and reserve booking

- Initial flow rate > 3 MMscfd
- Average flow rate over first month ~2.7
   MMscfd, and currently flowing 1.7 MMscfd
- Total production to date 1.3BCF
- Australia's first shale gas reserve booking
- Indicates continuation of unconventional gas trending West of PEL 218 and ATP 855 in the Nappamerri Trough



#### **Moomba-191 Santos EUR Estimates**

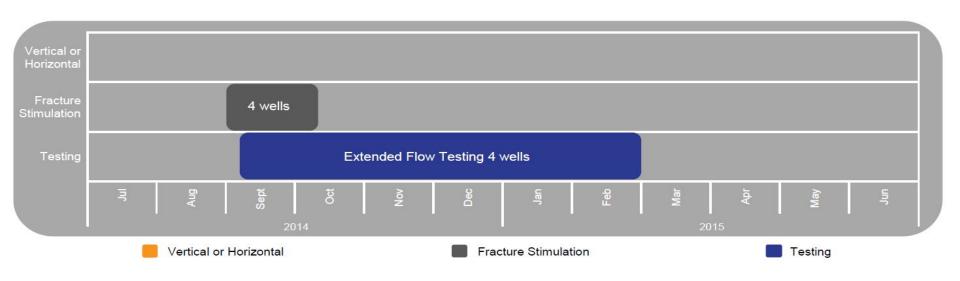
Gross Bcf	1P Reserves	2P Reserves	3P Reserves
Accessed OGIP	2	4	9
Ultimate Recovery	1.5	3	7



#### **ATP 855 – Work program 2014-2015**



- The proposed ATP 855 work program to June 2015 is shown below (subject to JV approval)
- Extensive hydraulic stimulation and flow testing program (4 wells)
- Expect to book additional material 2C Contingent Resource in late 2014 or early 2015
- Preparatory work to undertake a 3D Seismic survey in 2014-2015 (subject to JV approval)
- Targeted appraisal and tie-back to infrastructure 2015-2016, (subject to JV approval)
  - Potential to process and transport gas through existing SACB JV infrastructure and SWQ pipeline
  - Subject to negotiation with the SACB JV and APA Group



Hydraulic stimulation and flow-testing of 4 wells commencing September 2014

#### **Investment Highlights**



### World class resource potential



- Potential World class and multi-Tcf gas resource.
- Potential for future LNG development
- Quality partners (Beach Energy (Operator) and Chevron Australia)

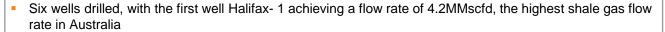
# Located in Australia's most advanced onshore basin



- 414,000 gross acres in the Cooper Basin
- Australia's most prolific onshore oil and gas region
- Extensive infrastructure including pipelines to East Coast market and processing facilities

## Australia's best unconventional results





- Wells have encountered extremely thick basin-centred gas saturated zones of ~1.3km
- Extensive hydraulic stimulation and flow testing campaign will commence in September 2014 with the expectation that additional material 2C Contingent Resources will be booked in late 2014 or early 2015

### Commercialisation opportunity



- Commencing Stage 2 program in 2014-2015 (Financial Year)
- Close to existing gas processing infrastructure with major export gas pipeline running through ATP 855
- Access to east coast domestic gas market with major LNG developments in Gladstone,
- Moomba-191 is 90km from ATP855 drilled, tested and produced commercial shale gas within 12 months

#### Strong balance sheet



- Cash in hand A\$25.2m, nil debt (as at 31 July 2014)
- Icon Energy have 35.1% of ATP 855
- Recent placement on 2<sup>nd</sup> December 2013 at A\$ 0.235 raised A\$18.8million
- Fully funded for current hydraulic stimulation and flow testing program



4 Miami Key Broadbeach QLD 4218 Raymond James Managing Director P 61 5554 7111

info@iconenergy.com www.iconenergy.com