

Hiding in plain sight – The Kingia gas fairway offshore

PESA Deal Day May, 2023

PILOT ENERGY LIMITED ASX:PGY



Compliance Statements



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Competent Persons Statement

This announcement contains information on conventional petroleum resources which is based on and fairly represents information and supporting documentation reviewed by Dr Xingjin Wang, a Petroleum Engineer with over 30 years' experience and a Master in Petroleum Engineering from the University of New South Wales and a PhD in applied Geology from the University of New South Wales. Dr Wang is an active member of the SPE and PESA and is qualified in accordance with ASX listing rule 5.1. He is a former Director of Pilot Energy Ltd and has consented to the inclusion of this information in the form and context to which it appears.

Authorisation

This presentation has been authorized by the Chairman and Managing Director on behalf of the Board of Directors of Pilot Energy Limited

Mid West WSP Feasibility Study Reporting Conditions

Pilot has agreed the following conditions with the ASX in relation to the Mid West WSP feasibility study:

- 1. The Company must continue to spend funds on its existing and proposed oil and gas projects.
- 2. The Company must disclose in each quarterly activities report until September 2022, the proportion of expenditure incurred in relation to exploration and evaluation on the oil and gas projects and the Mid West Wind and Solar Project.
- 3. The Company must disclose as separate line items in each quarterly activities report until September 2022, expenditure incurred in relation to exploration and evaluation on the oil and gas projects and the Mid West Wind and Solar Project.
- 4. Proceeding beyond the feasibility study stage of the Project (or incurring expenditure in excess of the budgeted feasibility expenditure in relation to the Project) constitutes a change in the nature and scale of the Company's activities in terms of Listing Rule 11.1 and as such the Company will be required to comply with all of the requirements of Chapters 1 and 2 of the Listing Rules before it proceeds beyond the feasibility study or incurs expenditures in excess of the budgeted feasibility expenditure on the Project.

High impact gas opportunity – WA-481-P

Opportunity

• Offshore area is larger than onshore, same geology, very lightly explored

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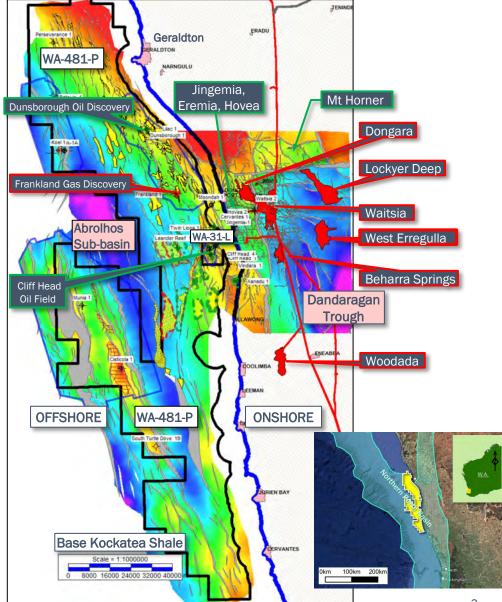
- WA-31-L, Cliff Head Oil Field (21.5%) initially 18 mmbbls EUR
 - CCS; application #1 for storage submitted to NOPTA
- Mid-West Clean Energy Project
- WA-481-P, (100%)
 - Dunsborough oil discovery, 6 mmbbls 2C
 - Frankland gas discovery, 42 Bcf 2C
 - Failure elsewhere pursuing the Dongara sst, not widespread offshore
 - Kingia sst was not previously recognised or targeted offshore
 - 8,605 km² licence area is lightly explored

Perth Basin Resources*

- Produced ≈32 mmbbls, ≈3 mmbbls remaining
- Produced ≈766 Bcf, primarily from Dongara sst
- Exploration success onshore in the Dandaragan Trough since 2014
- Kingia sandstone dominates increase of 2P+2C to ≈2,124 Bcf







Two petroleum systems

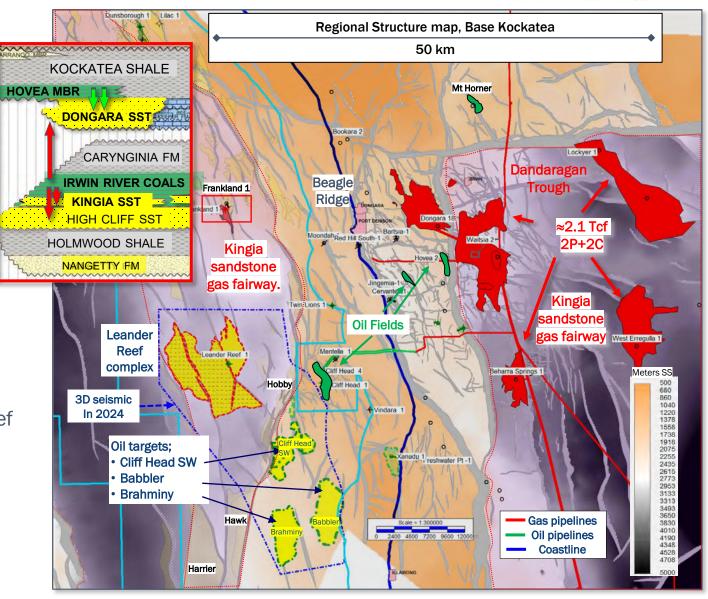


- 1) Hovea Shale member, Type II oil source top-loads into;
 - Dongara sandstone at Jingemia, Hovea, and Eremia Fields
 - IRCM and Kingia sands at Cliff Head Field, Dunsborough
- 2) Irwin River Coal Measures (IRCM) Type III kerogen charges gas into underlying Kingia and High Cliff sands
 - Waitsia 2 (2014) opened the Kingia gas play onshore in the Dandaragan Trough
 - Estimated 2P+2C ≈2.1 Tcf dominated by Kingia sandstone

Missed opportunity in WA-481-P

- Kingia sst is present in offshore wells, not recognized
- Leander Reef 1 (1984) didn't drill deep enough
- Prospective gas resource estimate of the Leander Reef complex is 450 Bcf*.

* Probabilistic estimate of 2U, announced to ASX $\,9^{th}$ March 2023



Kingia gas play – previously unrecognised potential

Munia 1

LPU

Lower IRCM?

Kingia

Sandstone?

High Cliff

Sandstone?

Munia



Hovea 2

Waitsia 2

Cliff Head 1

Twin Lions 1

Twin Lions 1

Oil pav

Gas pay

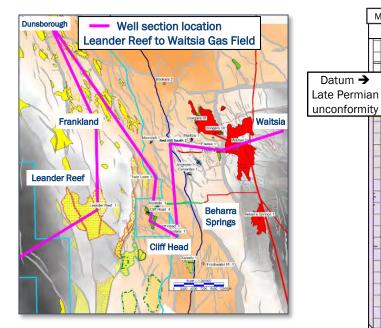
Dunsborough 1

Frankland 1

Vindara 1

Hove

Red Hill South



Frankland-1 (2003)

- Gas in Dongara and IRCM sandstones
- IRCM coals are the source of gas
- Kingia sandstone is present but water-wet, penetrated downdip of the faulted crest

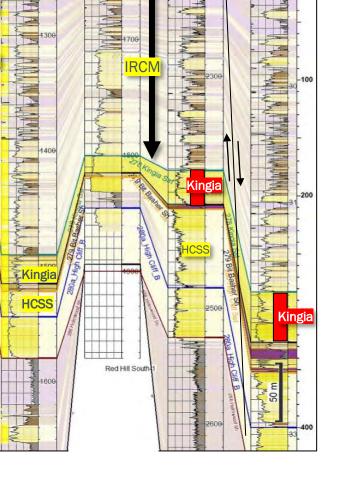
Leander Reef 1 (1984)

- Didn't drill deep enough to penetrate the Kingia sst.*
- A substantial high trend remains un-tested

Wet * Dr Gary Powis, geological adviser to ROC, reviewed the palynology of Waitsia 2 and offshore wells for Pilot and confirms the Kingia is present offshore, not penetrated at Leander Reef 1

Leander Reef 1 Frankland 1

Dunsborough 1

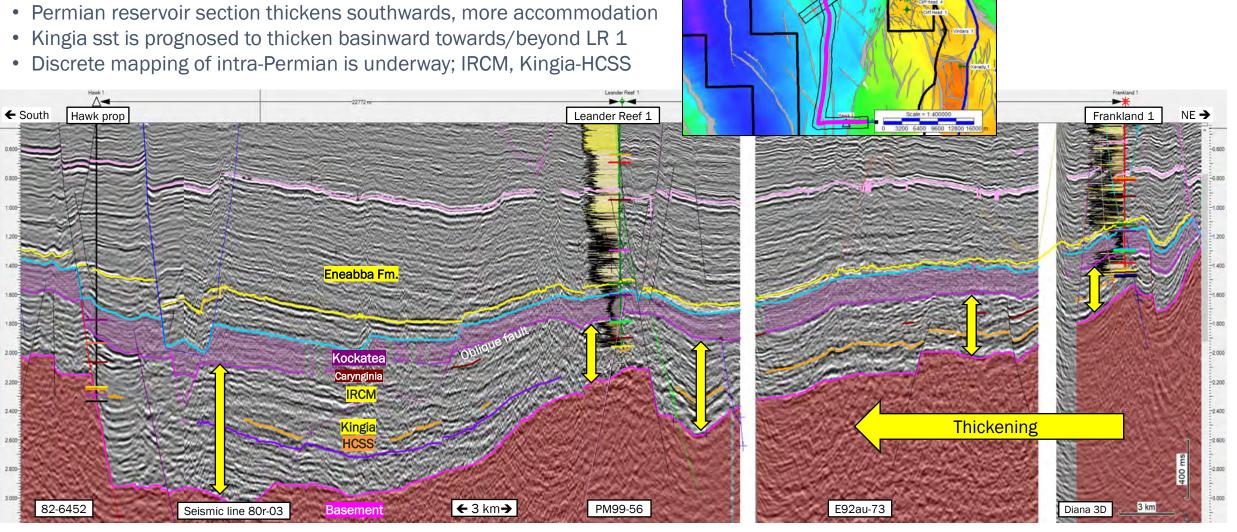


Thickening section → thicker reservoirs?

Frankland 1 (2007)

• Kingia sst is present, was not recognised, wet due to downdip position

Seismic traverse



Line of section

Pilot

Energy

Leander Reef 1 - failure to intersect Dongara sst – possible explanations Pilot

Explanation in WCR (1984), carried by previous seismic interpreter

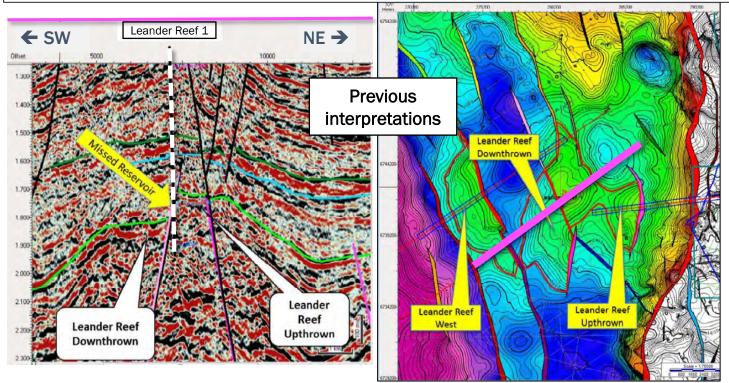
• Dongara sandstone missed due to normal fault throw at well location

Alternate explanations

- Dongara sandstone was not deposited at Leander Reef? As observed at Cliff Head, Vindara, Xanadu. Or...
- Dongara was deposited in a fluvial to estuarine system, possibly in incised valleys (localised), on the Late Permian Unconformity (LPU). Either Dongara is absent locally or over a wider area,
- Dongara sst is a possible secondary target

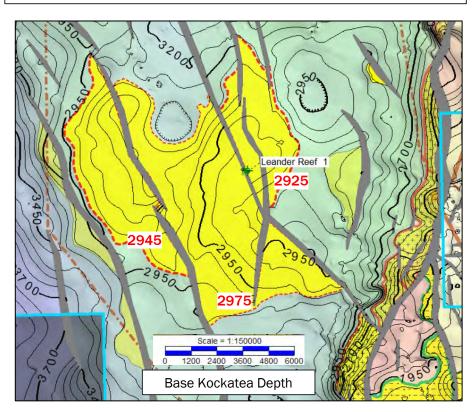
Previous drilling setbacks hide a *slightly* deeper opportunity

- Drilling operations in 1984 suffered a failed cement job of 9-5/8" then a cyclone, was much over budget
- The geology of the NPB was not well known at the time, and the unknown Kingia gas play was not tested



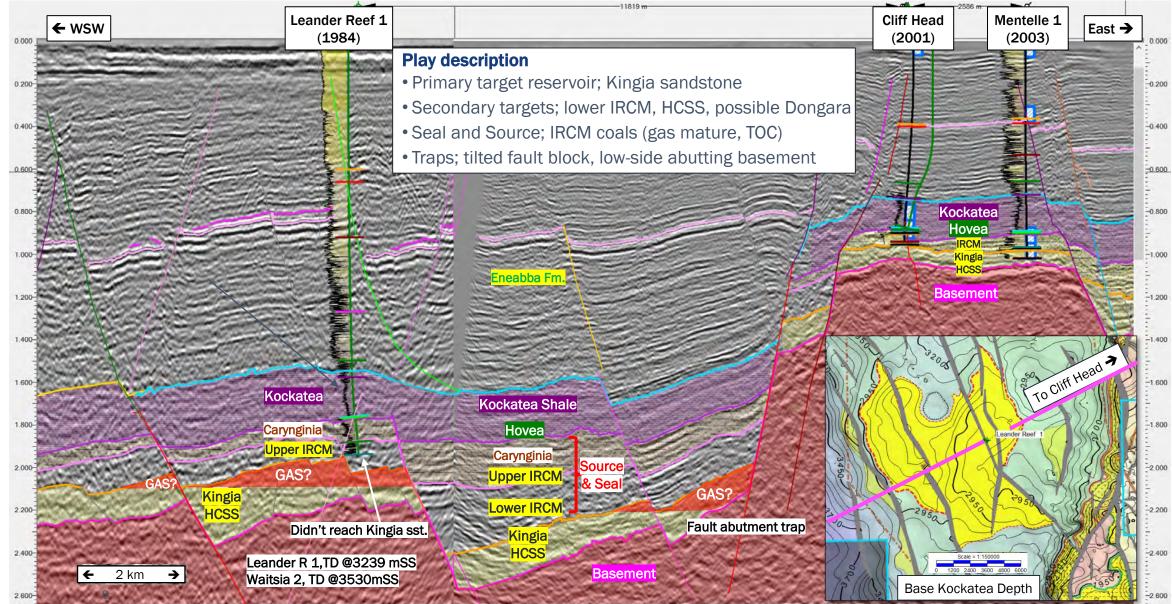
Seismic database

- 2D seismic, acquired 1980 through 1999 is poor to fair quality
- The structural high is obvious, configuration varies by interpreter
- Reprocessing has not resolved intra-Permian details, faults
- Pilot is committed to acquire 3D seismic



Leander Reef area – multiple opportunities





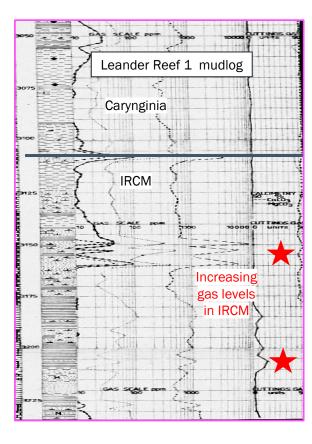
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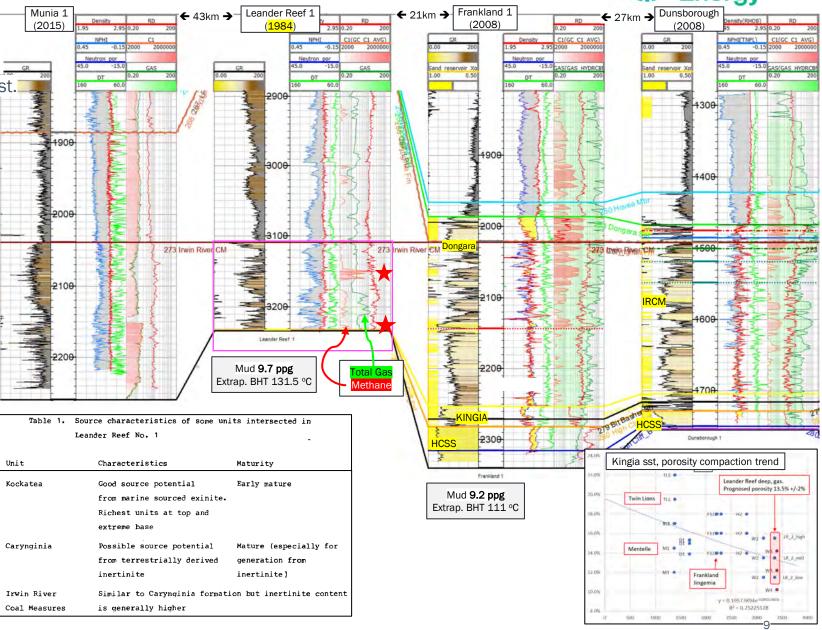
Hydrocarbon charge

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Seal + Source overlies the Kingia sandstone

- IRCM and Carynginia contain type III kerogen, is gas prone, overlies & charges/seals the Kingia sst.
- Frankland Gas field charge is sourced from an IRCM / Carynginia kitchen downdip
- Leander Reef 1 gas shows ★ are encouraging, albeit suppressed by high mud weight 9.7 ppg

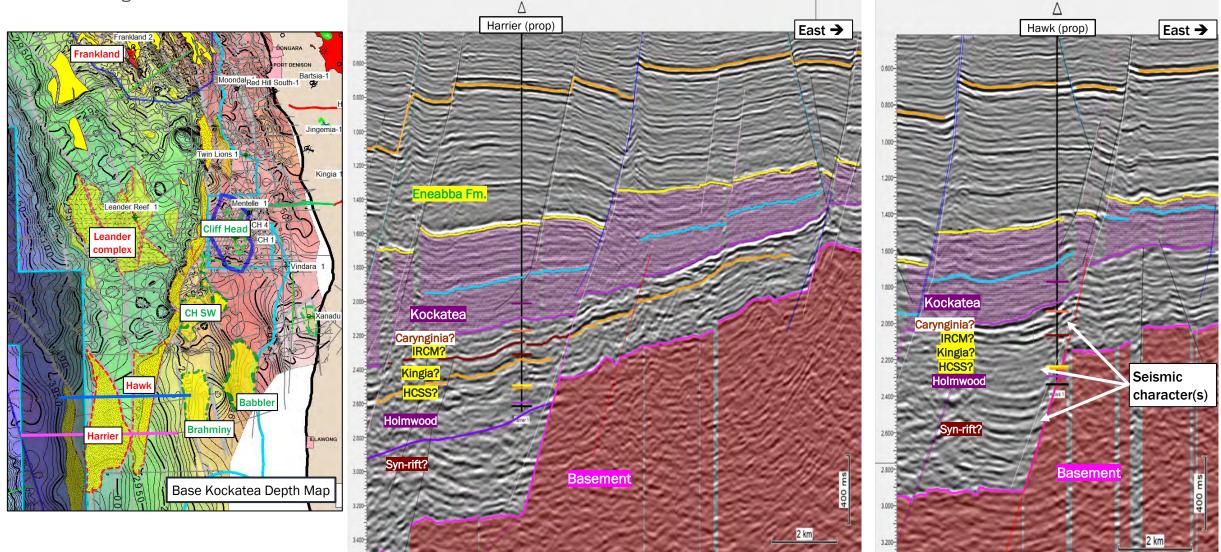




Hawk, Harrier – follow-up to Leander Reef test of Kingia sst



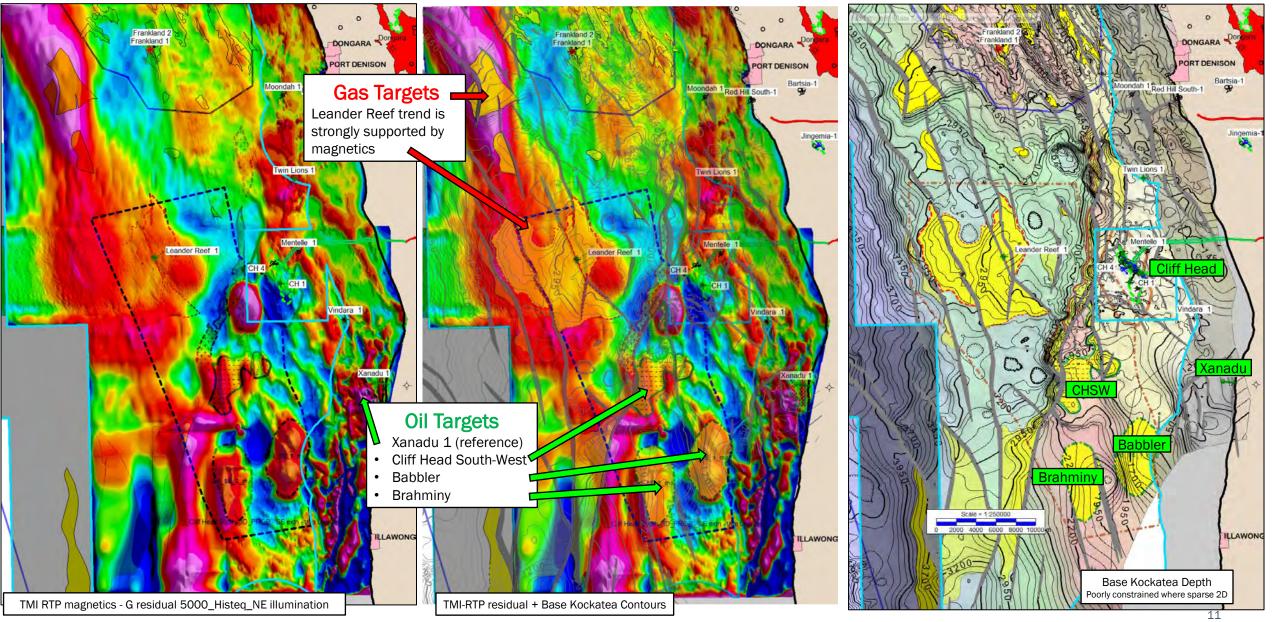
- Harrier, Hawk, and leads in the hanging-wall of Geraldton Fault are untested
- Size analogous to Leander Reef



Aeromagnetics – revealing Basement highs

Good correlation of Basement to seismic highs – positive indication for oil leads





Cliff Head SW Oil prospect and leads

Trap

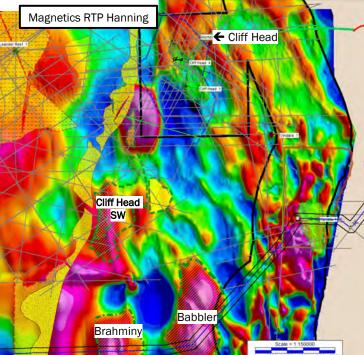
- Cliff Head South-West mapped on 2D seismic
- Aeromagnetic anomalies appear coincident with structural highs
- Brahminy & Babbler; one 2D line, aeromagnetics

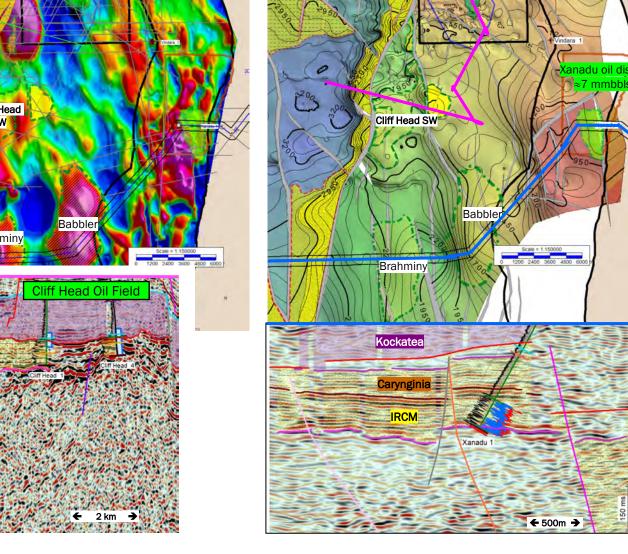
Reservoir

- Cliff Head Oil Field, IRCM & Kingia sands
- Xanadu Oil discovery, IRCM sandstones

Charge

- Hovea Shale Member is oil mature
- Top-loading or cross-fault charge are effective

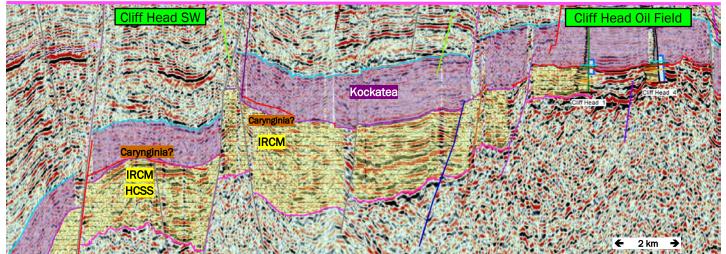




Base Kockatea Depth

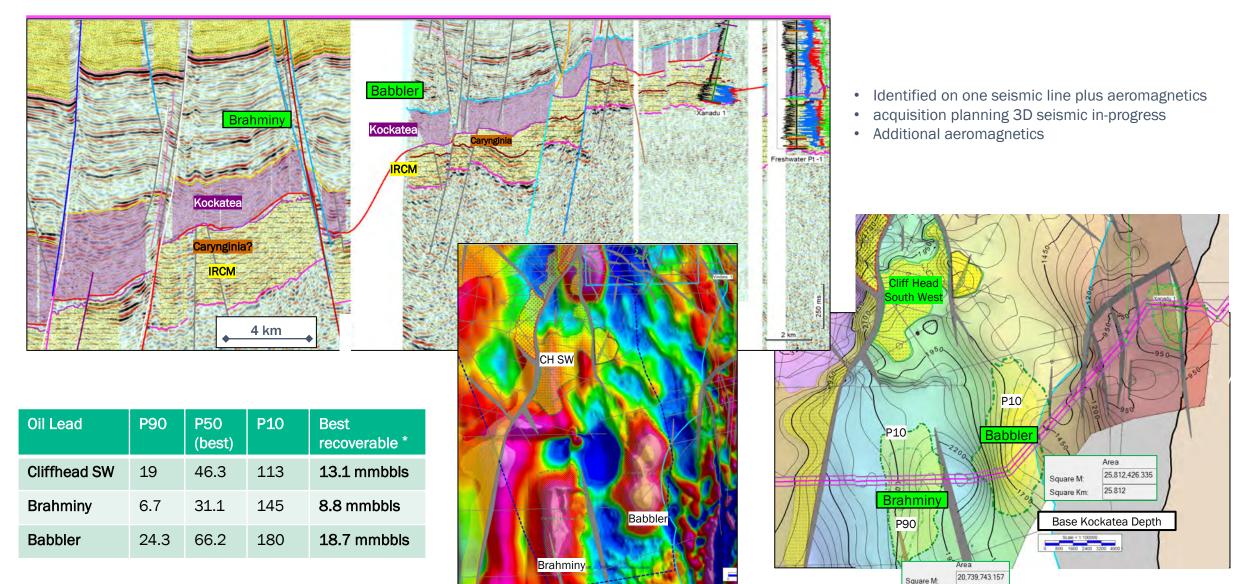
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Oil leads – Brahminy and Babbler





* Probabilistic 2U estimates announced to ASX 9th March 2023

20.740

Square Km:

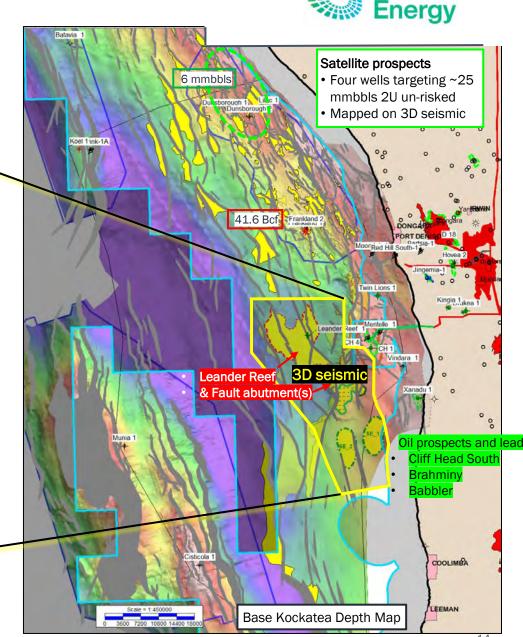
The Opportunity

WA-481-P

- Proven oil and gas fairways
- Multiple reservoirs, attractive target sizes, scale

Pilot is seeking partner(s) to participate in;

- Upcoming 3D seismic survey 350km² targeting;
 - Kinga sandstone gas;
 - 450bcf Leander Reef complex to
 - Geraldton Fault abutment features
 - Southern Terrace oil;
 - 41 mmbbl across Cliff Head South, Brahminy and Babbler
- Follow up gas targets at Harrier and Hawk
- The large tenement area and extensive data sets provide a significant runway for future exploration and appraisal activities



Contact Details

Pilot Energy Limited Suite 301, 35 Spring Street Bondi Junction, NSW 2022

www.pilotenergy.com.au



Nigel Gordon Miro Advisers <u>nigel@mirocapital.com.au</u>

Mike Bucknill Subsurface Manager <u>mbucknill@pilotenergy.com.au</u> Mike Lonergan Head of Upstream <u>mlonergan@pilotenergy.com.au</u>