



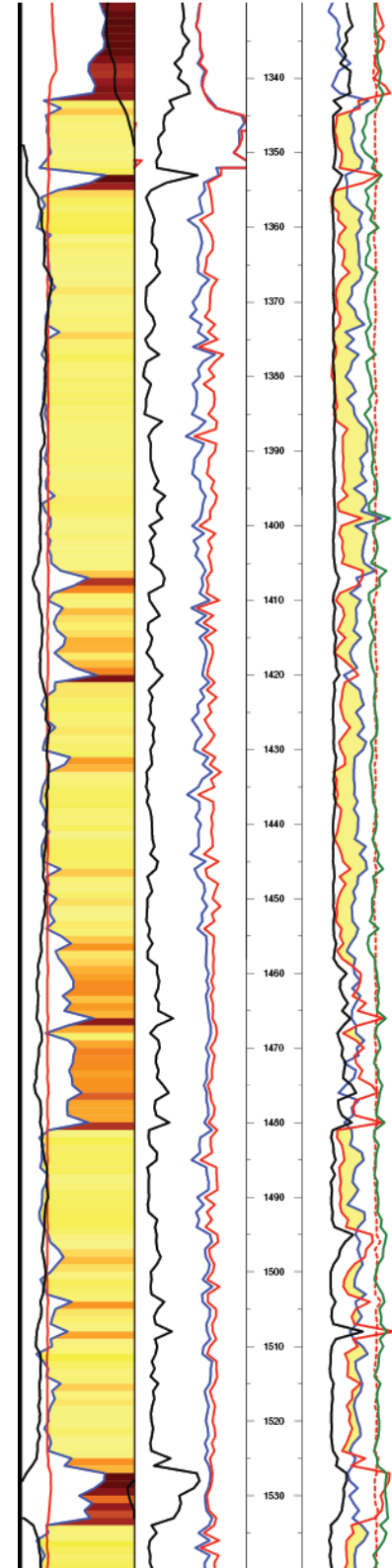
# Investor Afternoons

## Portfolio

## Operations

## Opportunities

Cooper Energy Investor Afternoons  
Melbourne & Sydney  
5 & 6 May 2014



# Important Notice – Disclaimer

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## The information in this presentation:

Is not an offer or recommendation to purchase or subscribe for shares in Cooper Energy Limited or to retain or sell any shares that are currently held.

Does not take into account the individual investment objectives or the financial situation of investors.

Was prepared with due care and attention and is current at the date of the presentation.

Actual results may materially vary from any forecasts (where applicable) in this presentation.

Before making or varying any investment in shares of Cooper Energy Limited, all investors should consider the appropriateness of that investment in light of their individual investment objectives and financial situation and should seek their own independent professional advice.

## Qualified petroleum reserves and resources evaluator

This report contains information on petroleum resources which is based on and fairly represents information and supporting documentation prepared by Mr Hector Gordon and Mr Andrew Thomas who are employees of Cooper Energy and qualified in accordance with ASX listing rule 5.41 and have consented to the inclusion of this information in the form and context in which it appears.

## Hydrocarbon Reporting Standard

Cooper Energy reports hydrocarbons in accordance with the SPE Petroleum Resources Management System 2007 (SPE-PRMS).



# Welcome

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The Cooper Energy Investor Briefings have been arranged to provide an insight into:

- **the company's strategy** for delivering sustainable and value-creating returns for our shareholders
- **an insight into our assets and operations:** what they are; why we hold them; what are the opportunities we foresee and what we plan to do
- how this translates into **our exploration and development activities for the coming financial year** and longer term production profile.

The briefing focusses on exploration and production, and will not deal with financial performance or analysis which is covered in our periodic reporting to the ASX and other presentations.

# Agenda

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- 1. Strategy & portfolio overview**
- 2. Cooper Basin**
- 3. Indonesia**
- 4. Otway Basin**
- 5. Gippsland Basin**
- 6. Tunisia**
- 7. Summary & outlook**



# Presenters in order of appearance

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David P. Maxwell  
Managing Director

David Maxwell joined Cooper Energy in September 2011, bringing over 25 years' experience as a senior executive with companies such as BG Group, Woodside Petroleum and Santos. As Senior Vice President at QGC - a BG Group business – he was responsible for all commercial, exploration, business development, strategy and marketing activities and led BG's entry into Australia, its alliance with and subsequent takeover of Queensland Gas Company Limited. David Maxwell was previously director of gas and marketing with Woodside in Perth and a member of Woodside's executive committee.



Hector M. Gordon  
Executive Director

Hector Gordon is a highly experienced geologist with over 35 years' experience in the petroleum industry. Hector Gordon was Managing Director Somerton Energy when it was acquired by Cooper Energy in 2012. Previously he was employed at Beach Energy for 16 years in a progression of roles including Exploration Manager, Chief Operating Officer and ultimately Chief Executive Officer. Prior to joining Beach Energy, Hector worked at Santos, AGL Petroleum, TMOC Resources, Esso Australian and Delhi Petroleum.



Iain MacDougall  
Operations Manager

Iain MacDougall's joined Cooper Energy with more than 25 years experience in the upstream petroleum exploration and production sector including senior management roles within independent operators and extensive international experience with Schlumberger. In Australia Iain's previous employment includes Stuart Petroleum as Production and Engineering Manager and then as acting CEO prior to the takeover of Stuart Petroleum by Senex Energy. Following the takeover, he was Chief Operating Officer at Bight Petroleum, a privately held independent exploration company and was a Director of Barker Wentworth, a specialist oil and gas consulting company.



Andrew Thomas  
Exploration Manager

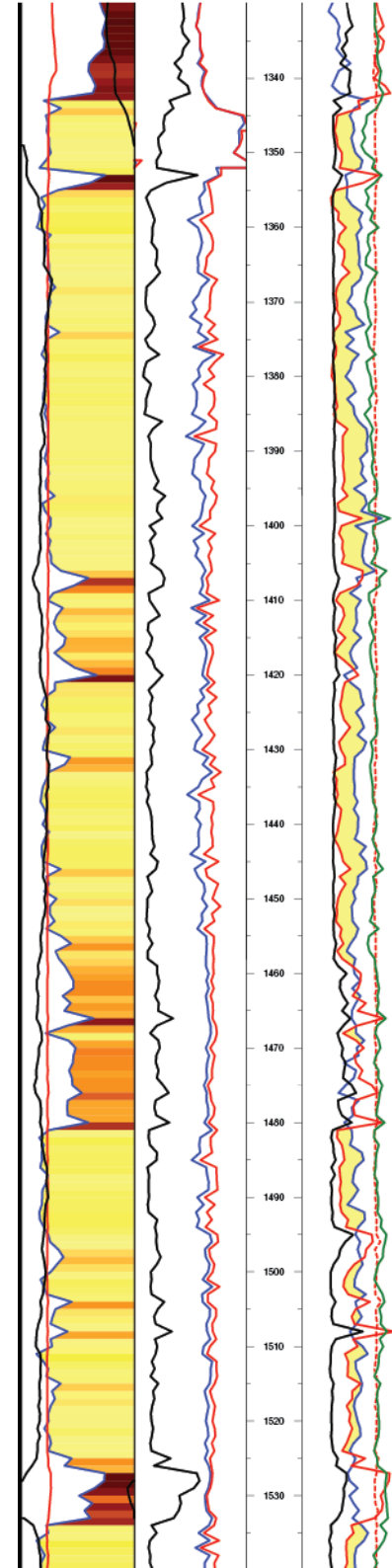
Andrew Thomas joined Cooper Energy in July 2012 and is a successful geoscientist with over 25 years' experience in oil and gas exploration and development in companies including Geoscience Australia, Santos, Gulf Canada and most recently at Newfield Exploration. At Newfield he was SE Asia New Ventures Manager and Exploration Manager for offshore Sarawak and a key person in the team that negotiated Newfield's entry into Malaysia. Newfield operated over 70,000 bpd oil production before selling to SapuraKencana Petroleum Bhd. for approximately \$900 million.





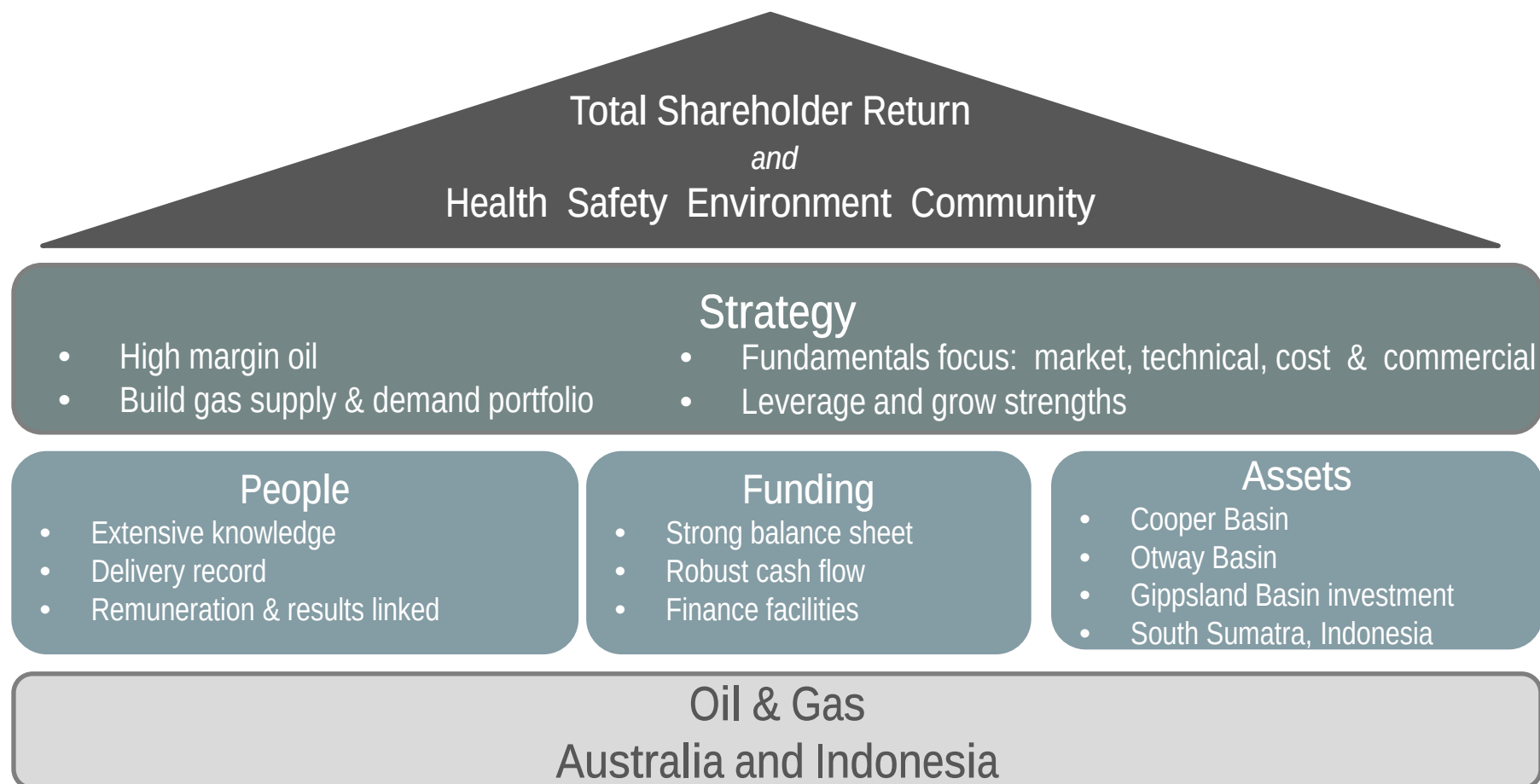
# Strategy & portfolio overview

David Maxwell  
Hector Gordon

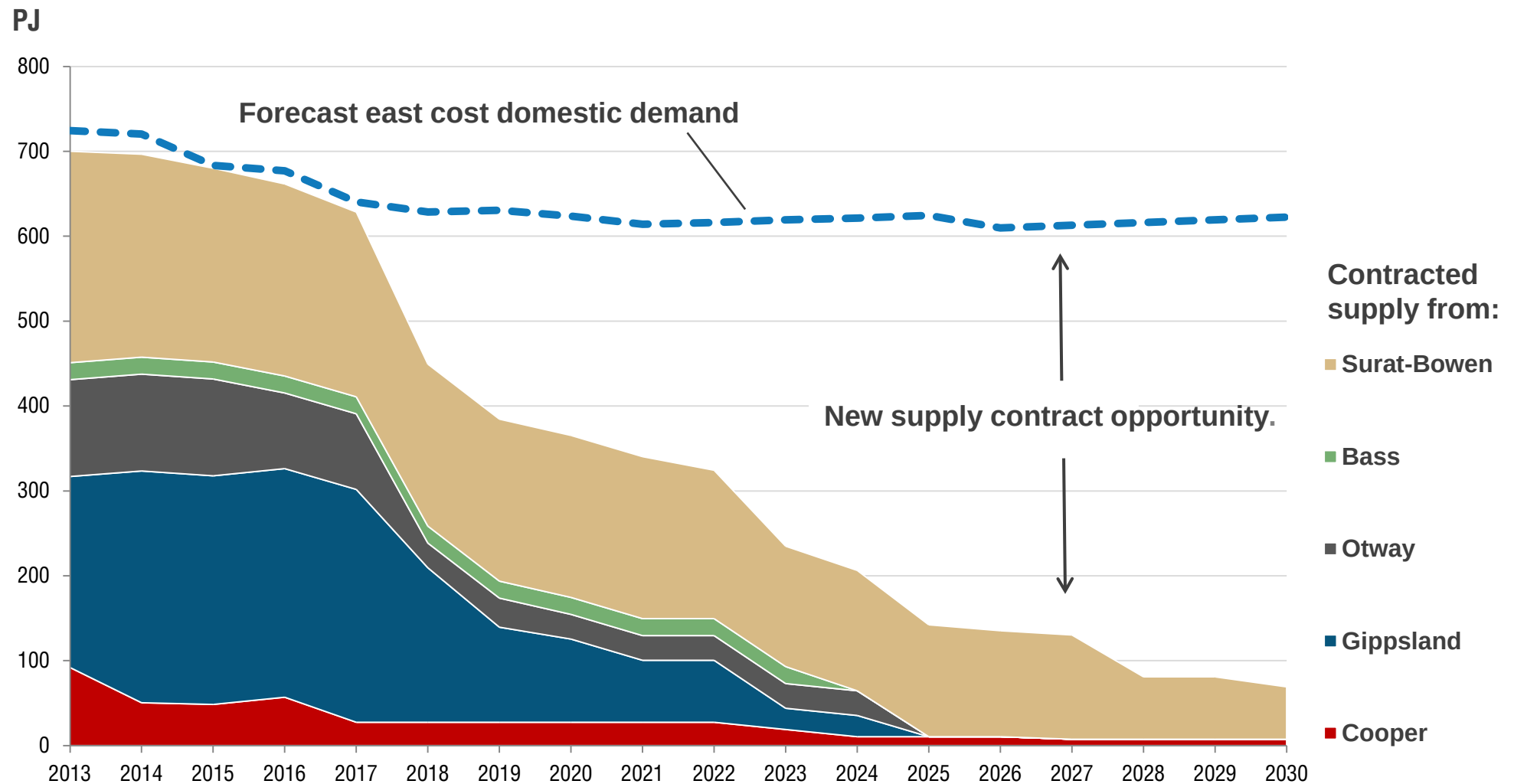


# Business model and focus

Focus on returns & care through disciplined application of resources to core skills



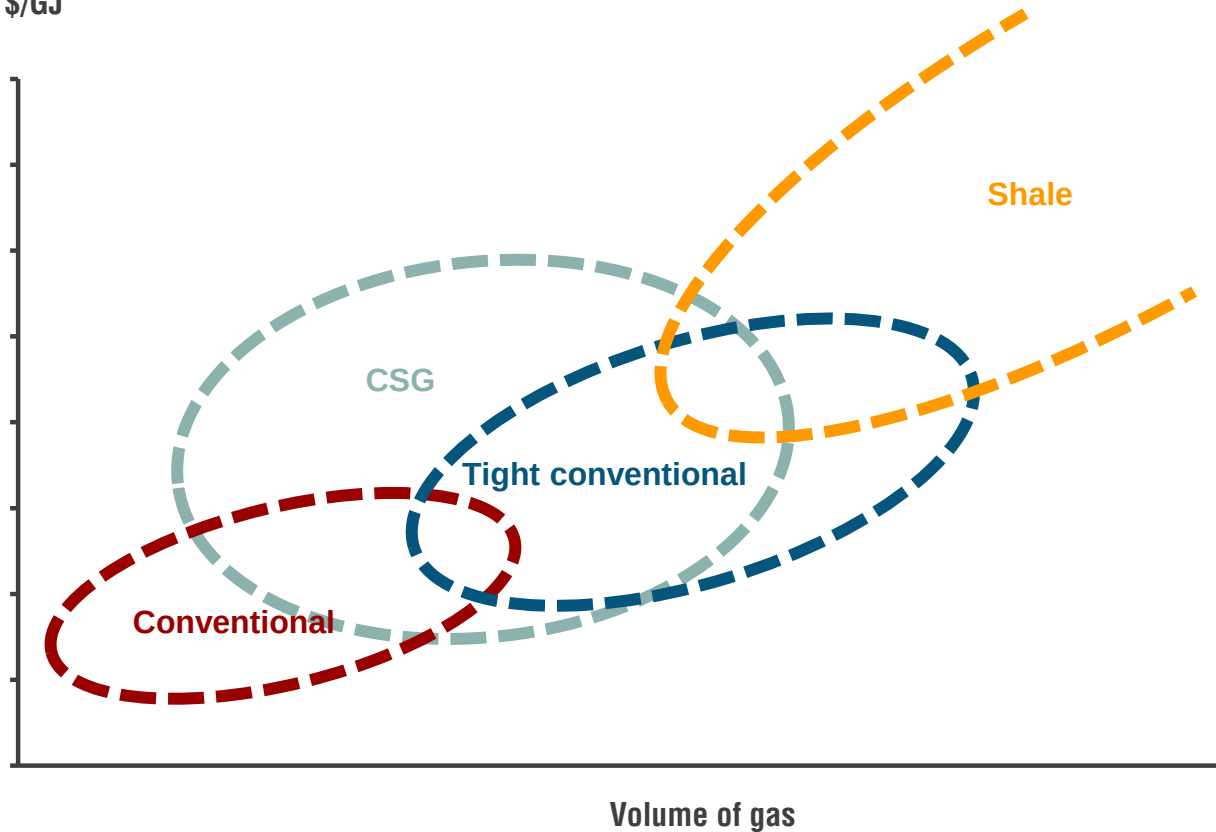
# East Coast domestic gas demand & contracted supply



# Indicative gas supply cost curve

## Indicative illustration of various reservoir types in Eastern Australia

Economic ex-field gas price  
\$/GJ



### Other key variables

- Liquids content
- Inerts content e.g. CO<sub>2</sub>, N<sub>2</sub>
- Size/economy of scale
- Community & approvals
- Access to infrastructure
- Distance/cost to market

# Regional gas demand and availability

## Queensland LNG projects have a material impact

- ~200% gas demand increase in short period
- Catalysed significant reserve increases
- Queensland reserves largely allocated to LNG
- LNG prices impact domestic prices

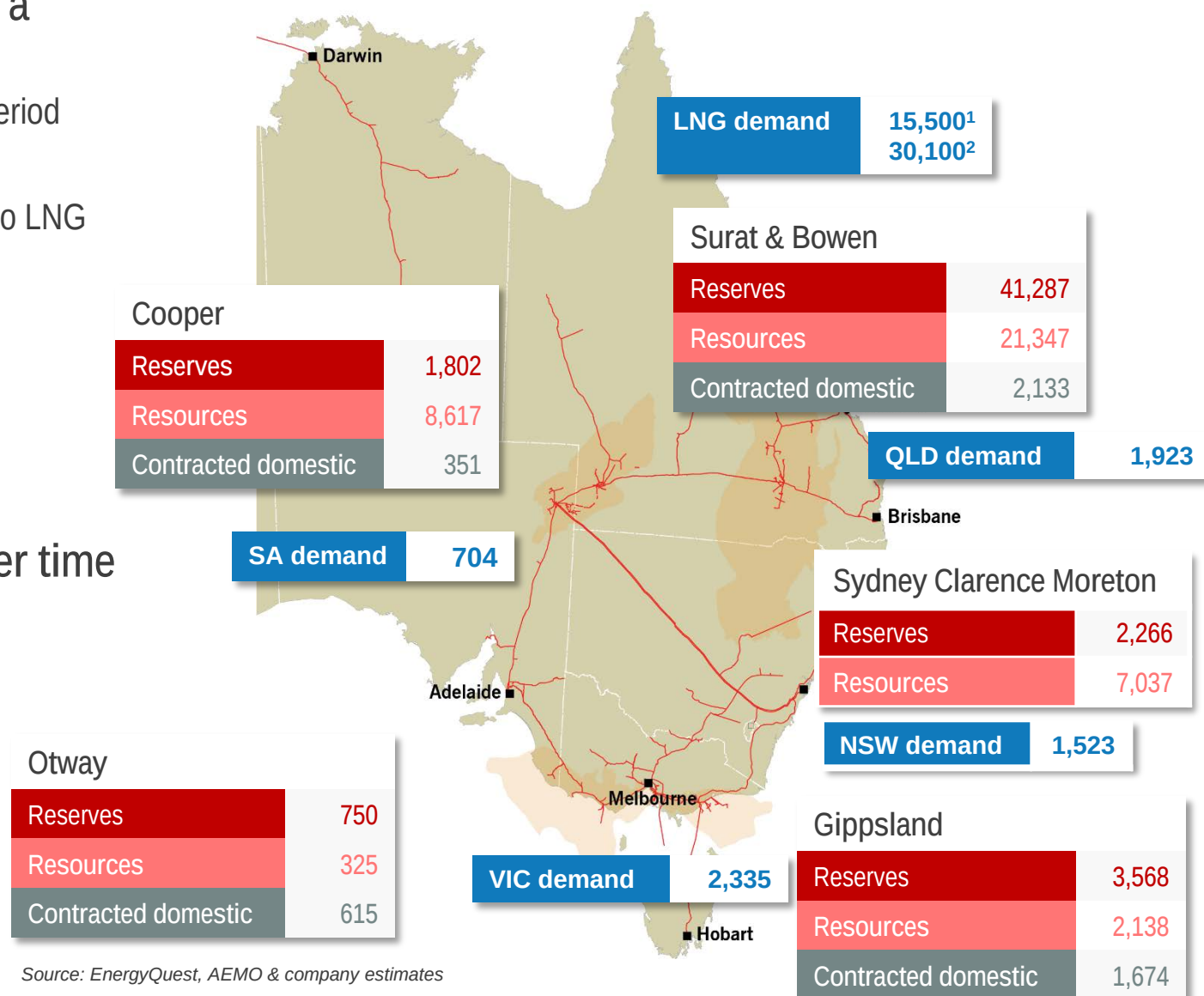
## Gippsland: largest available uncontracted reserves

## Increasing gas prices

## Forecast: reserves increase over time due to

- Higher prices increase reserves
- Exploration
- More market opportunities

Current gas 2P Reserves and 2C Resources and gas demand 2014 -24



Source: EnergyQuest, AEMO & company estimates



<sup>1</sup> LNG demand based on 3 projects – 10 years

<sup>2</sup> LNG demand based on 3 projects – 20 years

# Gas Strategy – positioning for supply opportunities

## Cooper Basin

- Evaluating opportunities

## Otway Basin

- Built acreage position through acquisition and trades
- Permits now cover most of Casterton Formation play fairway
- 2 well program commenced targeting deep plays

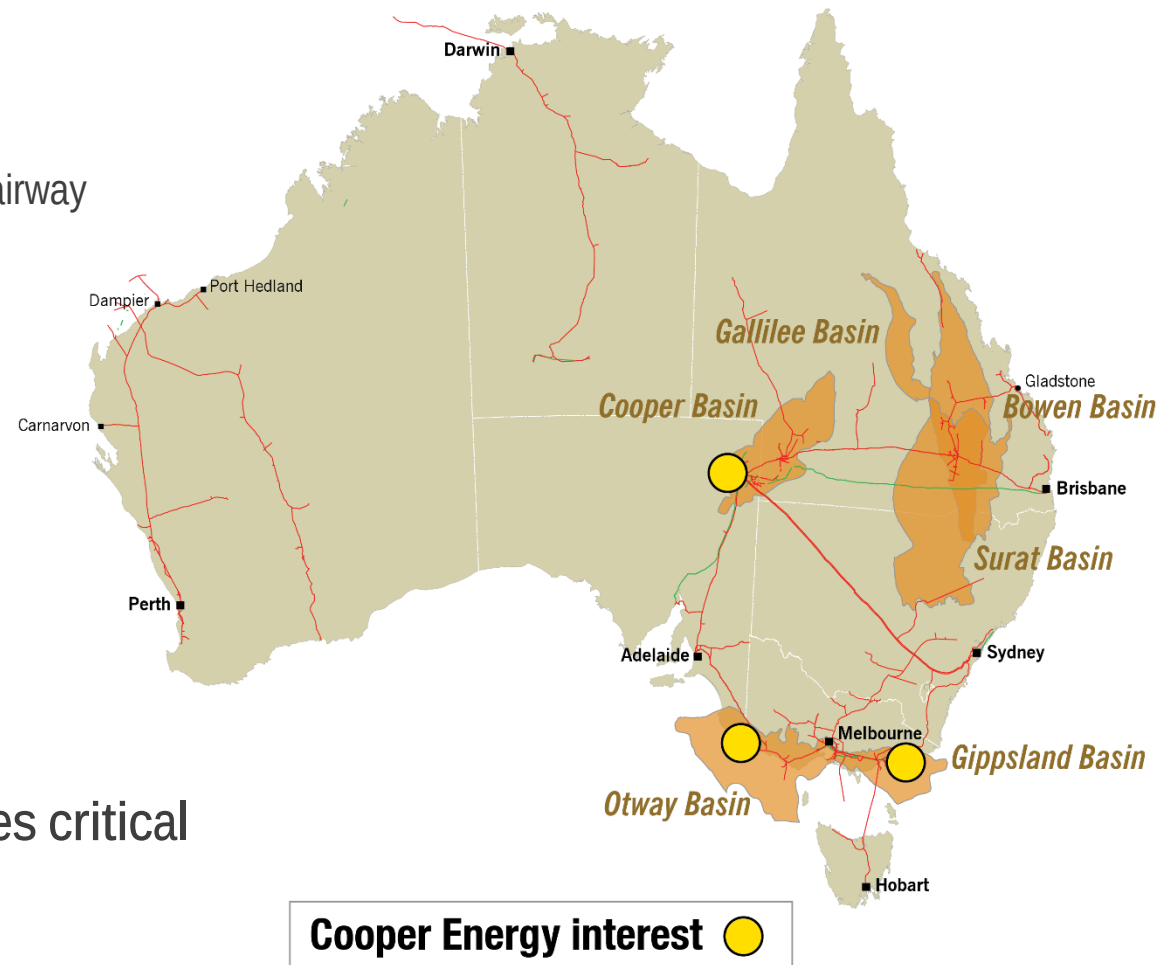
## Gippsland Basin

- Acquired 65% BMG Project & Operator
- Hold 22.9% interest in BAS
- Completing 3D seismic reprocessing

## Evaluating opportunities

## Market driven approach

## Cost curve and likely development timelines critical



# Portfolio

## Cooper Basin Oil

- Oil production
- Development & appraisal
- Exploration

## Otway Gas

- Exploration

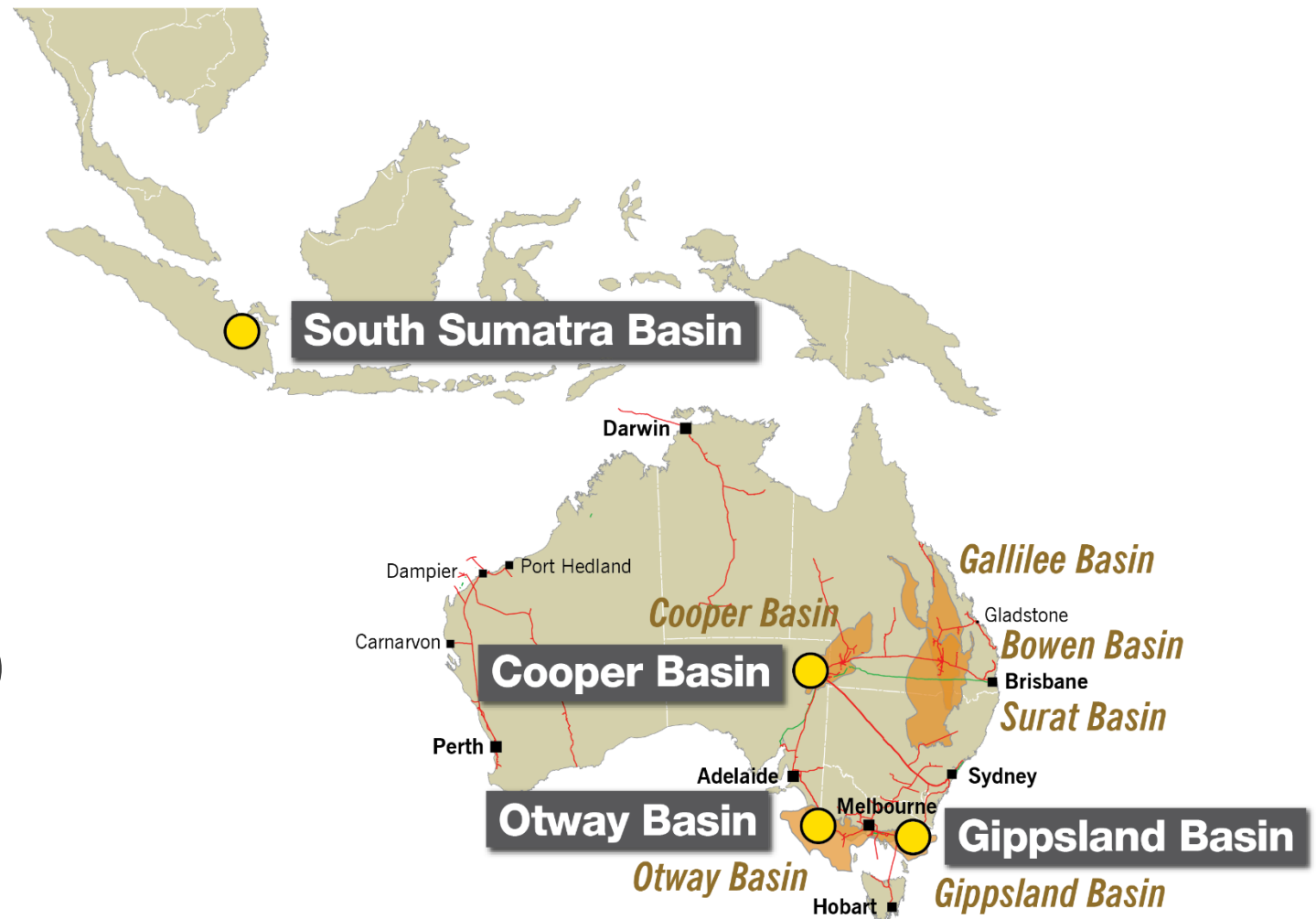
## Gippsland Gas & Oil

- Development
- Appraisal & exploration

## Indonesia (onshore Sumatra)

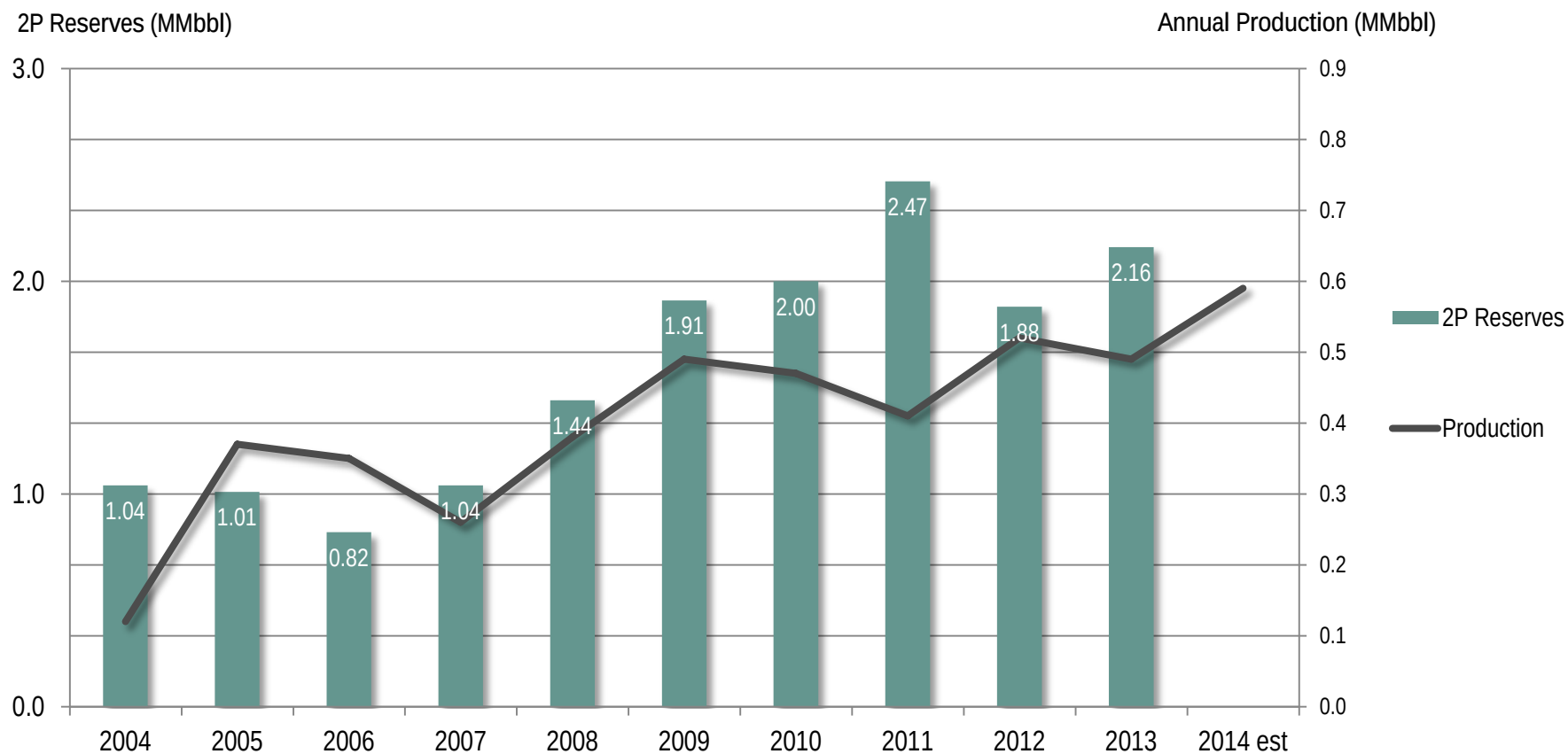
- Oil production
- Development & appraisal
- Oil & gas exploration

## Tunisia (being divested)





# Reserves and production history



# Reserves and Contingent Resources

## Reserves<sup>1</sup>

| MMbbl as at 30 June 2013 | 1P          | 2P          | 3P          |
|--------------------------|-------------|-------------|-------------|
| Cooper Basin             | 0.95        | 1.80        | 2.89        |
| Indonesia                | 0.06        | 0.35        | 0.64        |
| <b>Total</b>             | <b>1.02</b> | <b>2.16</b> | <b>3.53</b> |

## Contingent Resources<sup>1</sup>

| MMboe as at 30 June 2013                       | 1C          | 2C           | 3C           |
|------------------------------------------------|-------------|--------------|--------------|
| Cooper Basin                                   | 0.00        | 0.00         | 0.03         |
| Tunisia <sup>2</sup>                           | 5.15        | 5.74         | 6.41         |
| <b>Total<sup>3</sup></b>                       | <b>5.15</b> | <b>5.74</b>  | <b>6.44</b>  |
| <b>Total<sup>4</sup> (incl. Hammamet West)</b> | <b>8.95</b> | <b>17.04</b> | <b>39.54</b> |

<sup>1</sup> As per the Cooper Energy 2013 Annual Report

<sup>2</sup> Does not include Hammamet West

<sup>3</sup> Does not include Gippsland Basin

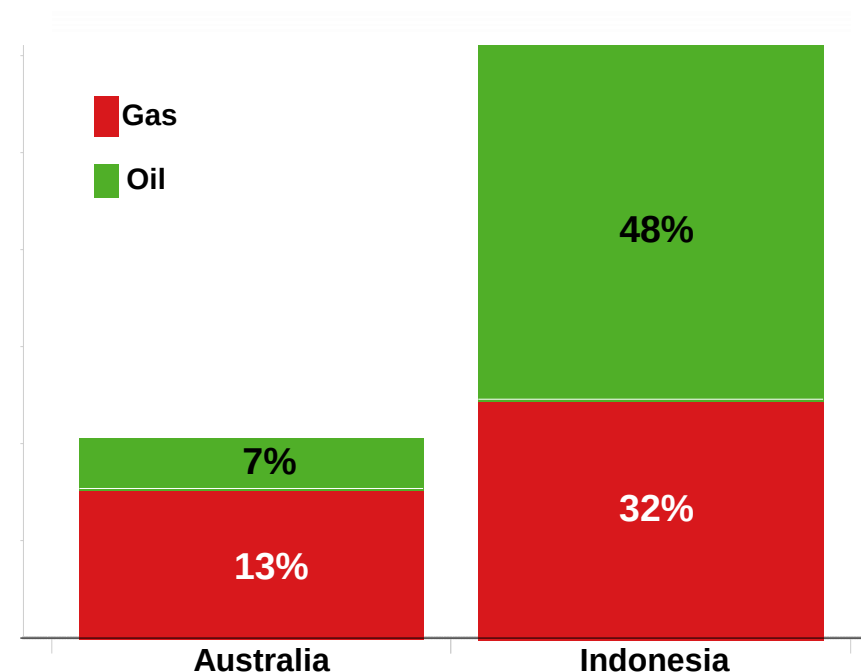
<sup>4</sup> Total is arithmetic sum of 1C, 2C & 3C resources



# Prospect Inventory – shift to gas

- Fundamental shift in prospect portfolio driven by strategy
- Pre 2012 prospect portfolio primarily oil focused
- Current exploration portfolio 45% gas:55% oil
- 20% of portfolio<sup>1</sup> targets low-moderate risk : low-moderate reward Australian opportunities
- 80% of portfolio<sup>1</sup> targets moderate-high risk : high reward Indonesian opportunities
- Prudent capital and risk management by farm out of high risk : high reward opportunities

Exploration Portfolio Only – Oil vs. Gas Split<sup>1</sup>



<sup>1</sup> Net risked million boe excluding Tunisia

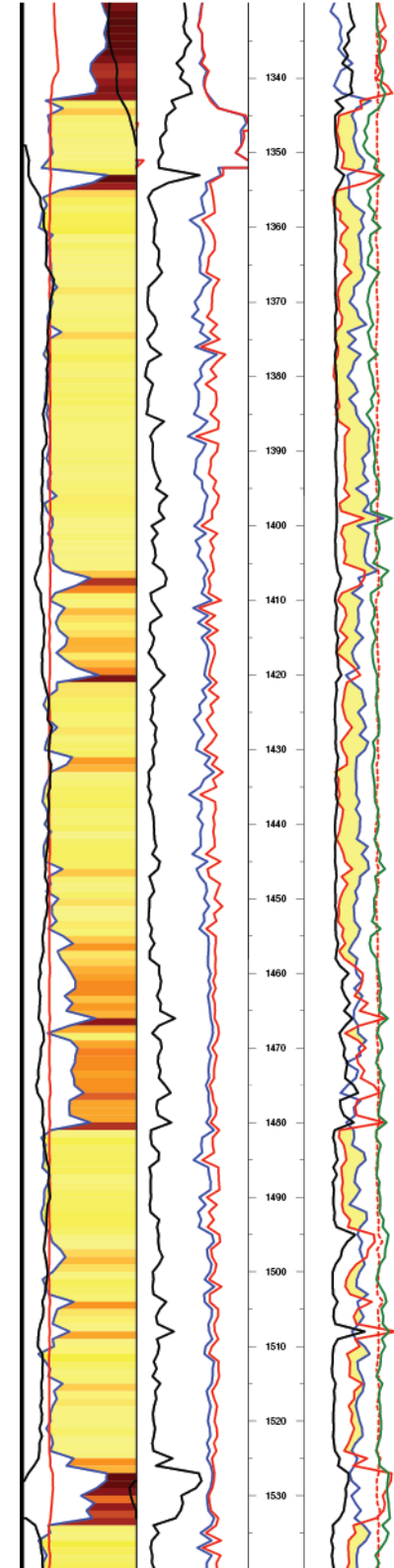


# Cooper Basin

Hector Gordon

Andrew Thomas

Iain MacDougall



# Cooper Basin

- Oil production and exploration
- Discovered 5.6 MMbbl (net) to date <sup>(1)</sup>
- Produced 3.8 MMbbl (net) to date <sup>(1)</sup>
- Revenue since 2002 \$359 million
- Current production ~1,500 bopd
- Forecast FY14 Netback >\$90/bbl
- Oil sold to SACBU & transported from Moomba via pipeline to Port Bonython
- Pricing effectively TAPIS

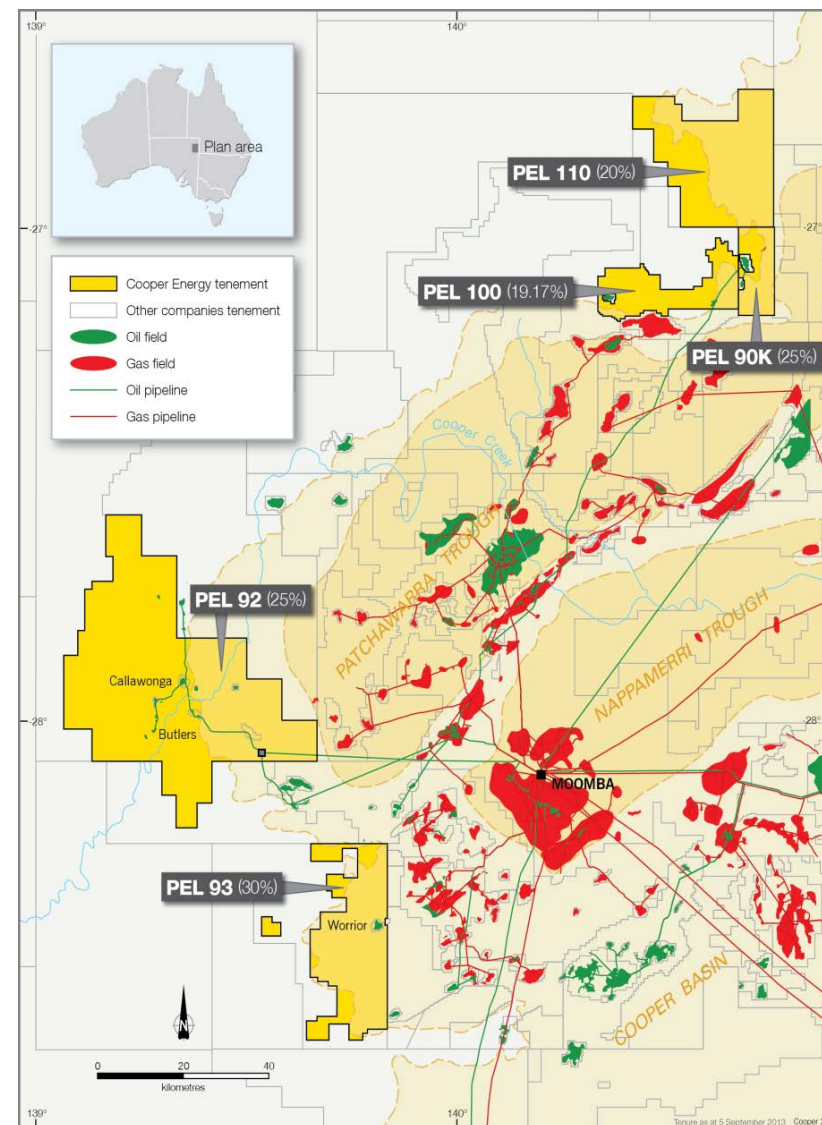
(1) As at 30 June 2013



**Cooper Basin costs and netback per barrel**  
A\$ FY14 First Half from average \$128/bbl



■ Netback  
■ Royalties  
■ Transportation  
■ Production



# Western Flank plays

Source – Patchawarra Formation

Reservoir – Namur Sandstone

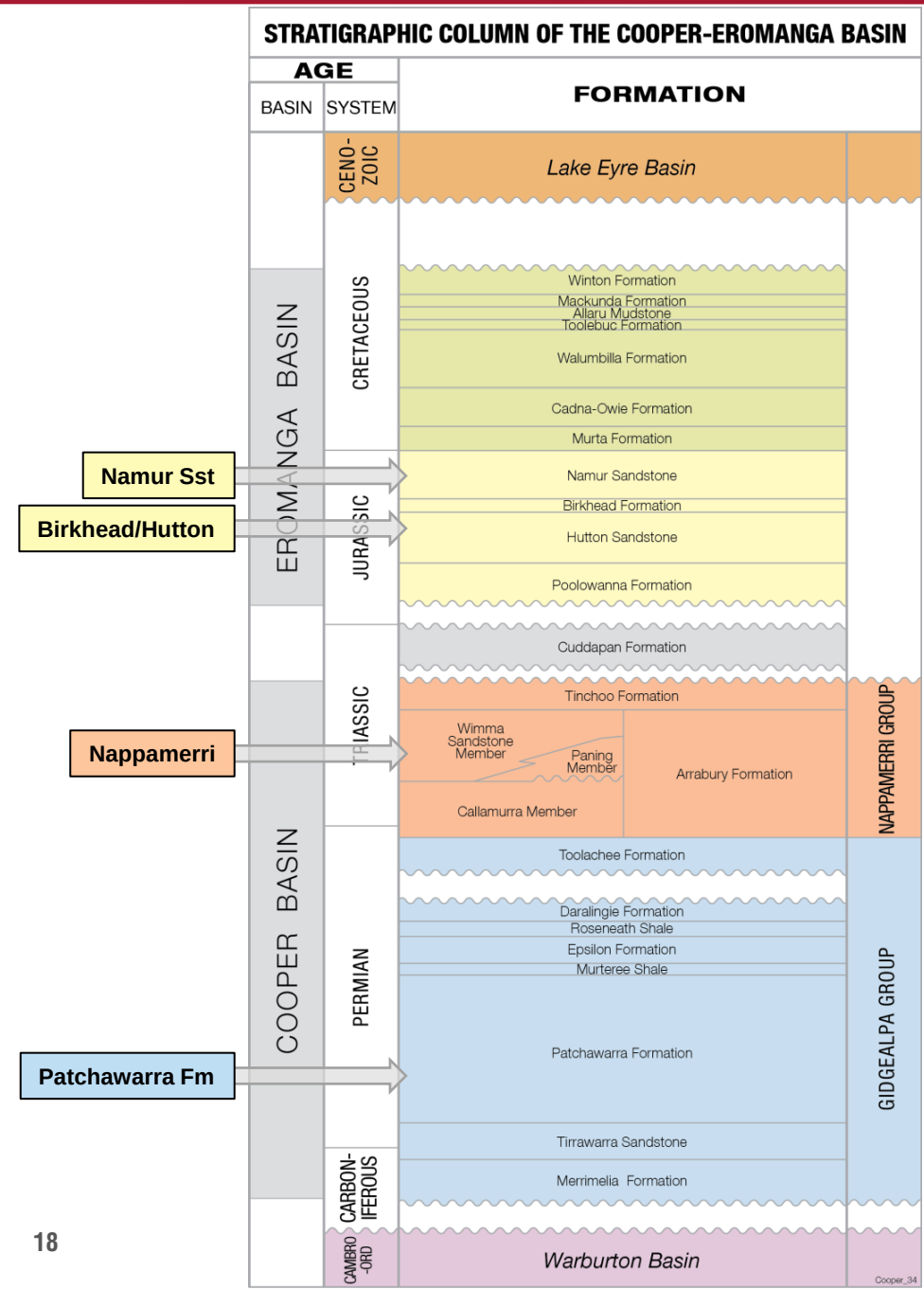
- Hutton
- Birkhead

Predominately structural traps

- Some stratigraphic trapping in Birkhead

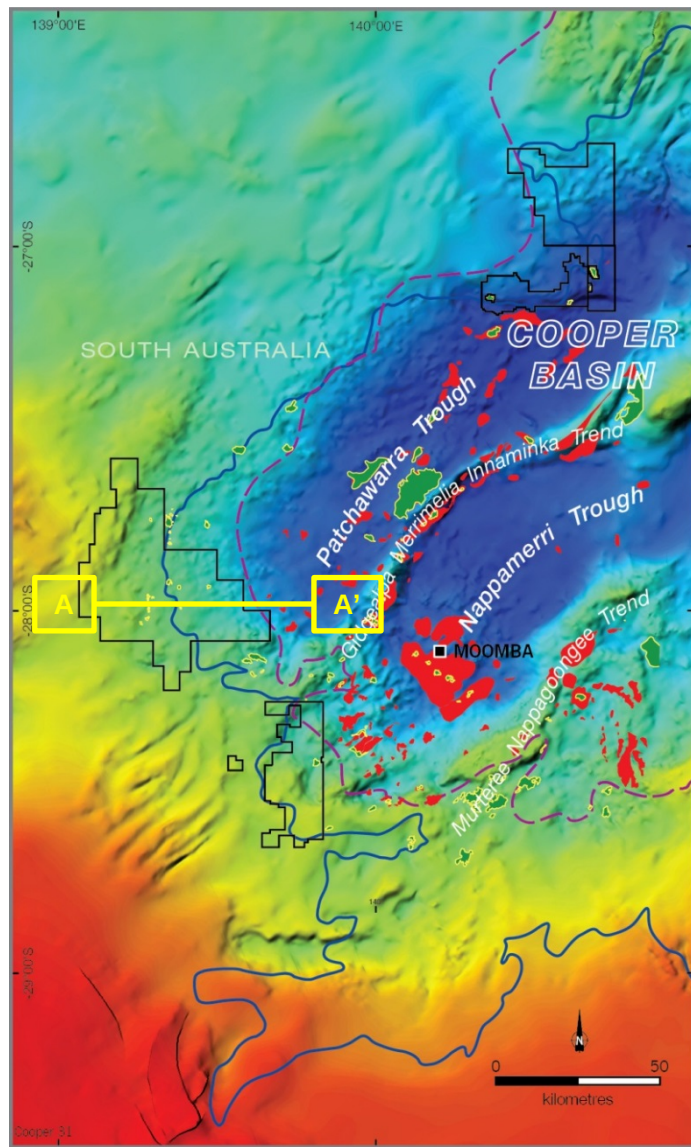
Nappamerri Formation is regional seal to Permian – its absence is a key factor in allowing oil charge from Permian into Jurassic

Birkhead Seal also plays important role

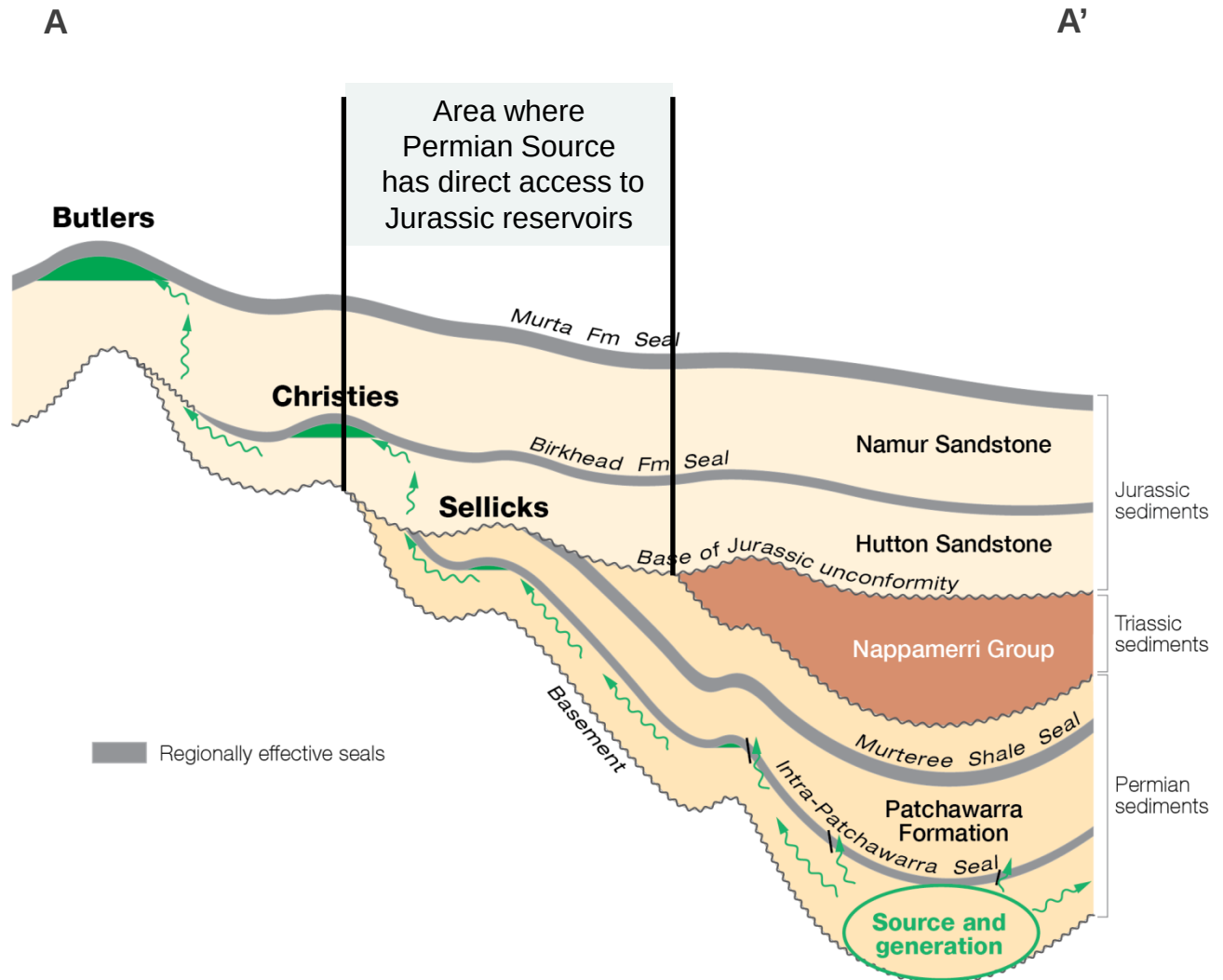




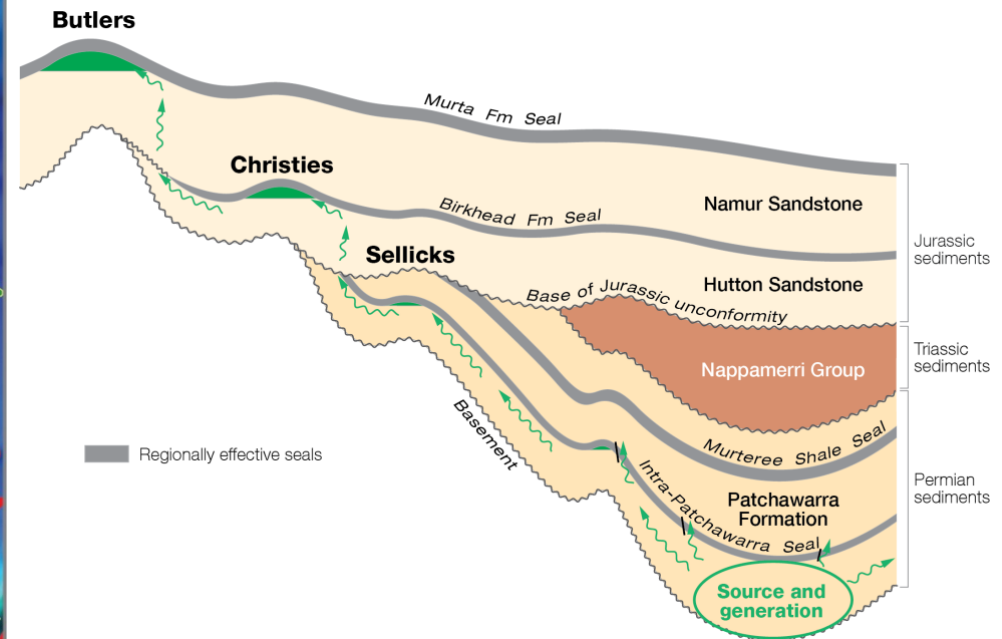
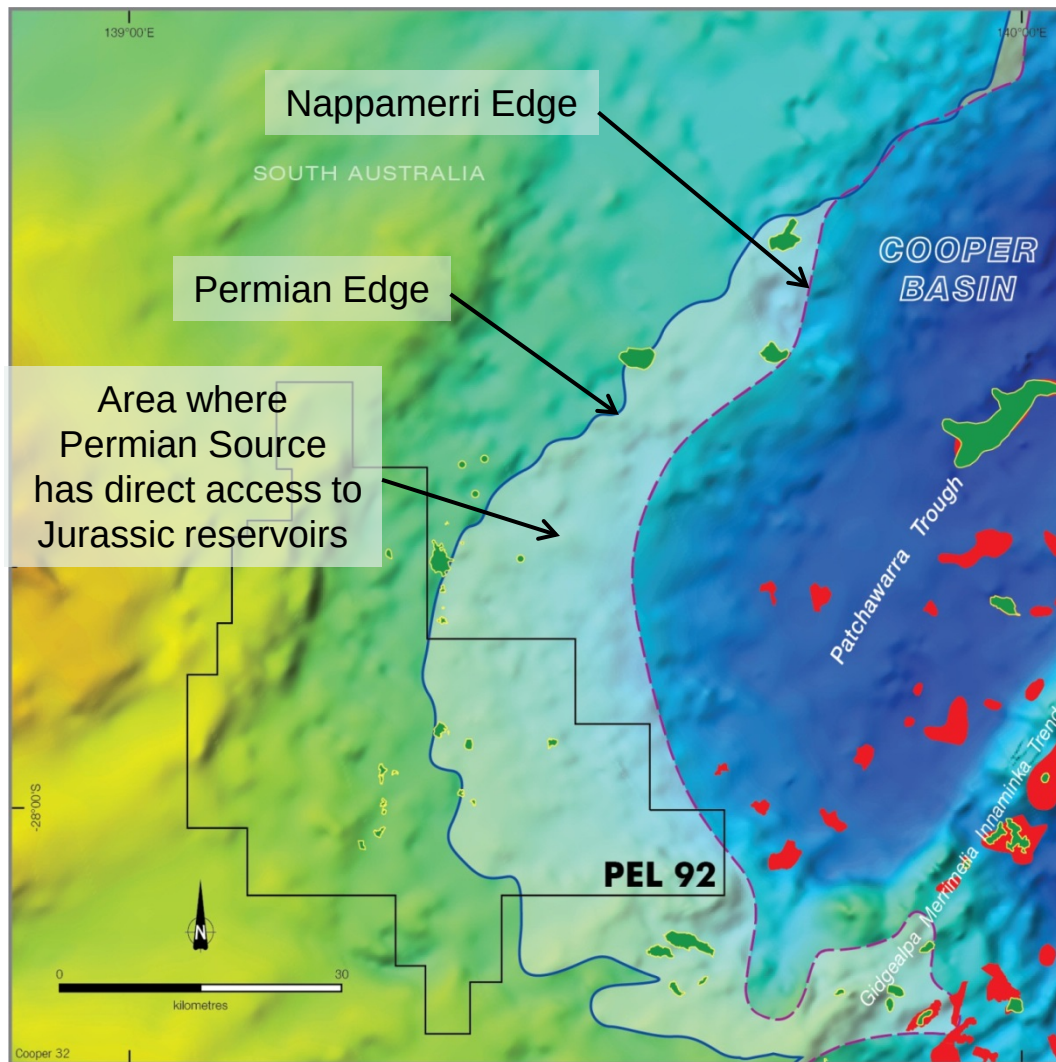
# Western Flank – migration



Section A-A'

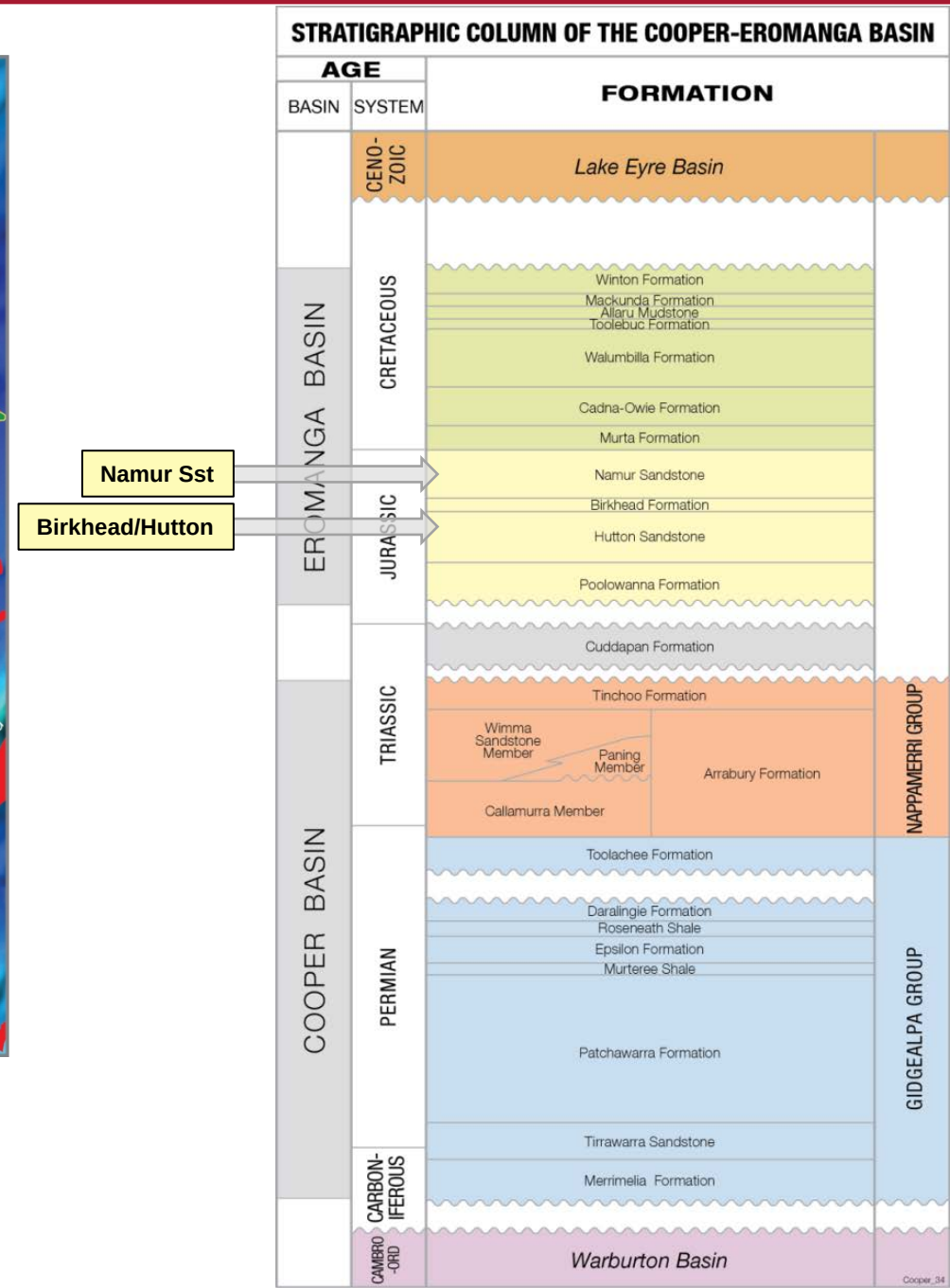
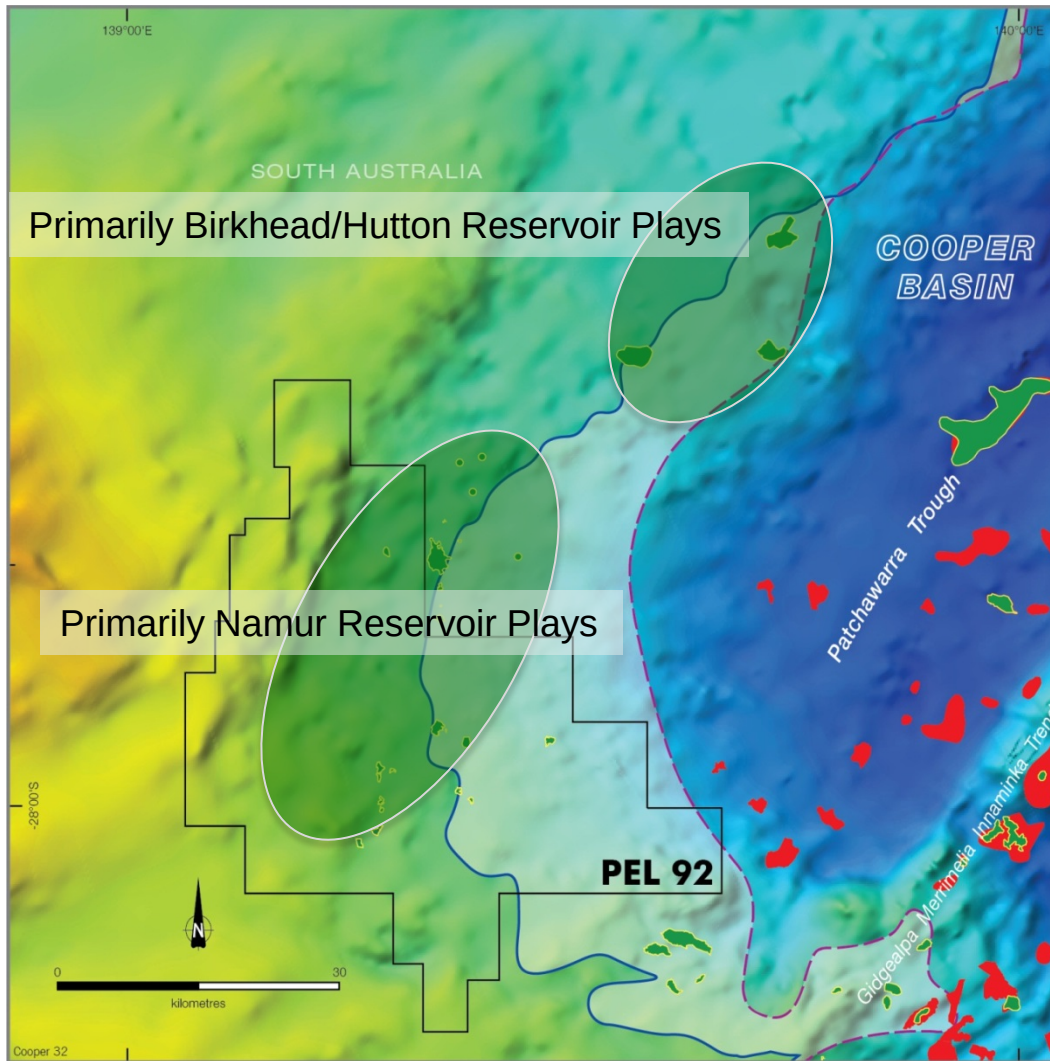


# Corridor of direct charge from Permian into Jurassic





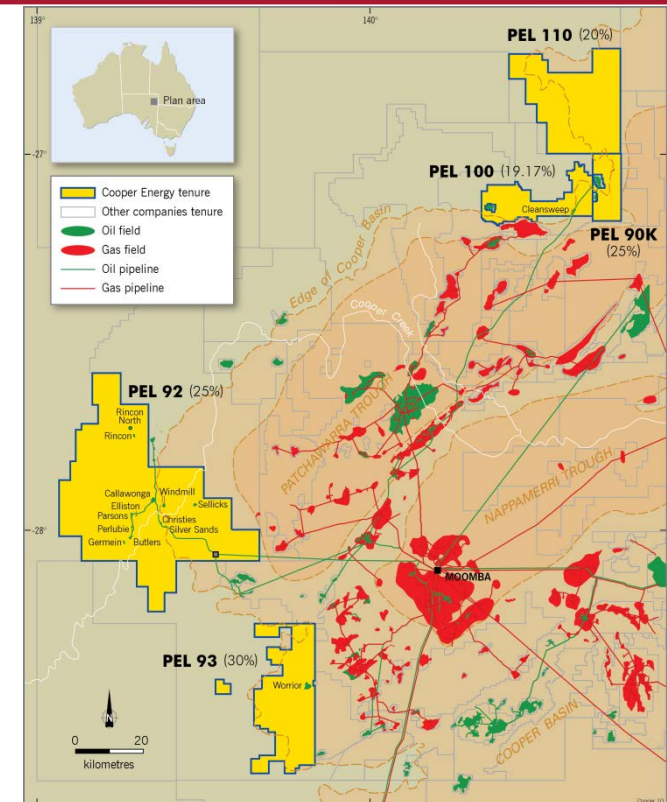
# Western Flank - two distinct play fairways



# PEL 92

- Awarded October 2001 (COE 25%)
- Sellicks oil field discovered 2002
- Production commenced FY04
- 35 exploration wells drilled, 13 discoveries (37%)
- 29 development wells
- EUR<sup>1</sup> ~17 MMbbl (100%)
  - average field size 1.3 MMbbl (100%)
- Production to date ~11 MMbbl
- Reserves primarily in Namur Sst – high productivity
- Finding & development costs \$13.60/bbl

<sup>1</sup> EUR: Estimated Ultimate Recovery = production to date plus remaining 2P reserves



PEL 92 Exploration Wells vs Cumulative Success Rate





# PEL 92 – Current status

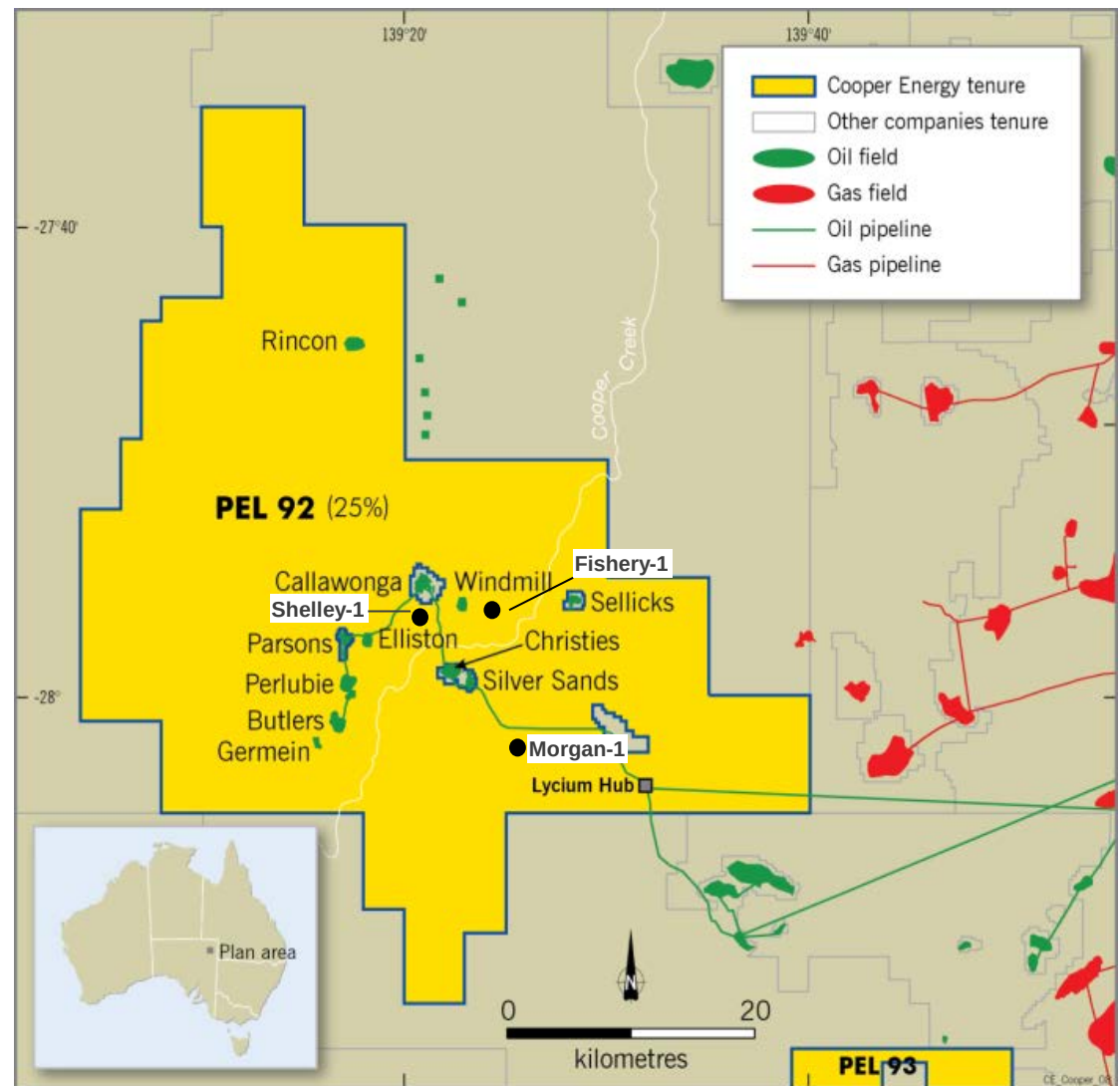
- 12 Fields (Main fields: Callawonga, Butlers, Parsons & Windmill)
- ~ 6,000 bopd (& 100,000 bwpd) from ~ 35 producing wells
- Export primarily via Lycium-Moomba pipeline, supplemented by truck
- Forecast FY14 Netback > \$90/bbl



Christies oil field production facility

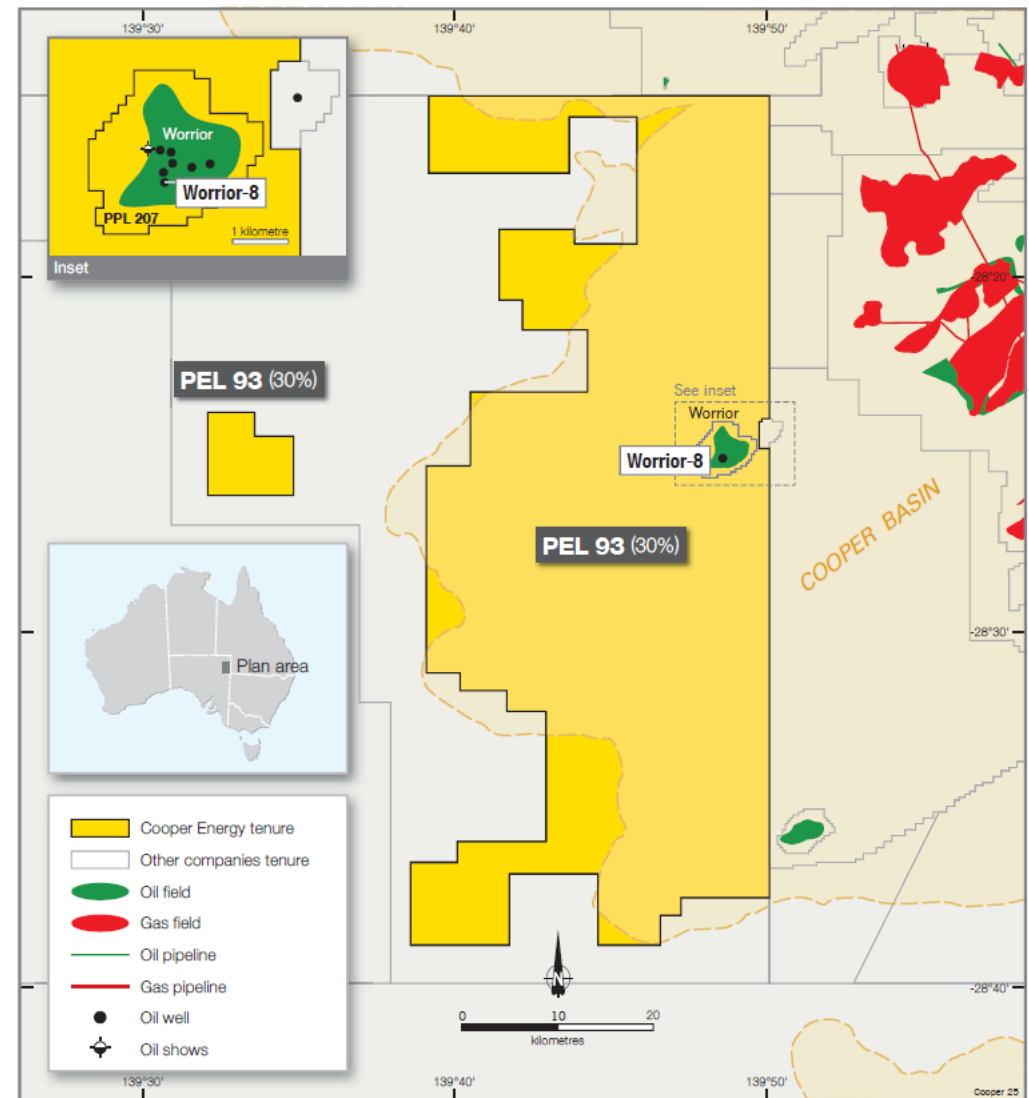
# PEL 92 – Look forward

- 3 wells planned before end of FY14
- Seismic interpretation of the Irus and Caseolus 3D ongoing to add to drilling portfolio
- Seismic reprocessing and inversion underway to address existing Namur play and emerging Birkhead Channel play
- Drilling activity levels in FY15 similar to FY14 levels



# PEL 93

- Awarded November 2001 (COE 30%)
- Worrior oil field discovered 2003, production commenced November 2003
- 6 exploration wells drilled, 2 discoveries (33%)
- 9 development / appraisal wells
- EUR ~4.7 MMbbl (100%)
- Production to date ~3.7 MMbbl (100%)
- Reserves primarily in McKinlay and Birkhead sandstones – high productivity
- Additional potential identified in Murta and Patchawarra formations
- Finding and development cost \$12.04/bbl



# Worrior oilfield – Current status

McKinlay/Birkhead main producing reservoirs

- Slow decline and high watercut

New Patchawarra oil pool

- Identified in Worrior-8
- Worrior-10 extended production test scheduled June '14 quarter

Murta tight oil potential under investigation

Gas conversion of surface facilities to increase economic life

Appraisal drilling programme planned for FY15



Worrior Oil Production Facility



# Worrior operations



Drilling and workover operations at Worrior oil field

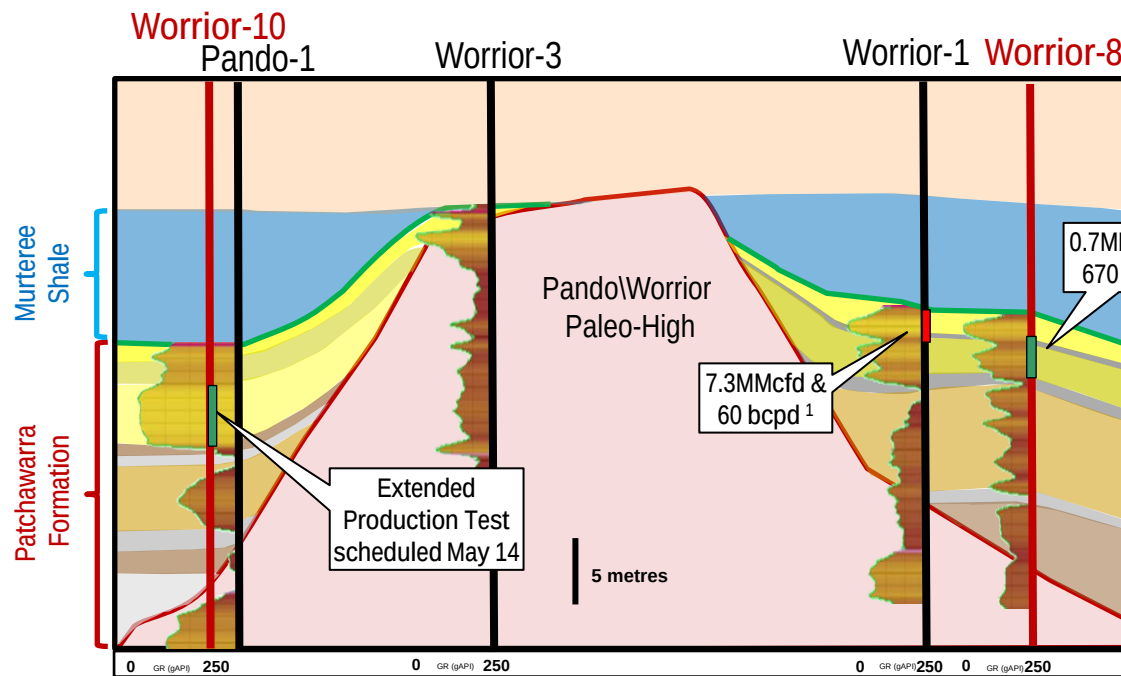


Crude loadout at Worrior oil field

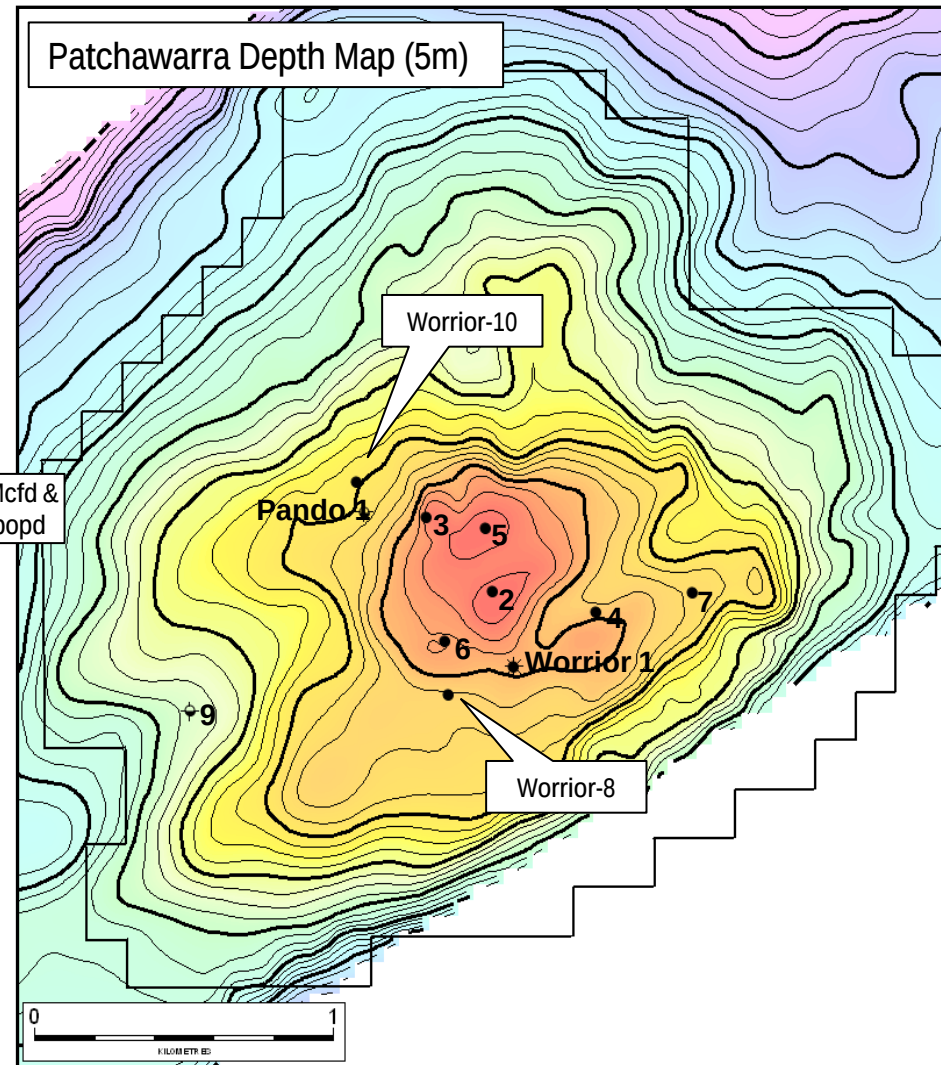


# Worrior Field Patchawarra potential

- Worrior-8 flowed 670 barrels of oil per day with 0.7 million standard cubic feet of gas in 2013
- Worrior-10 intersected 4.5m net oil pay
- Reserve potential under evaluation
- Plan to drill further appraisal wells in FY15

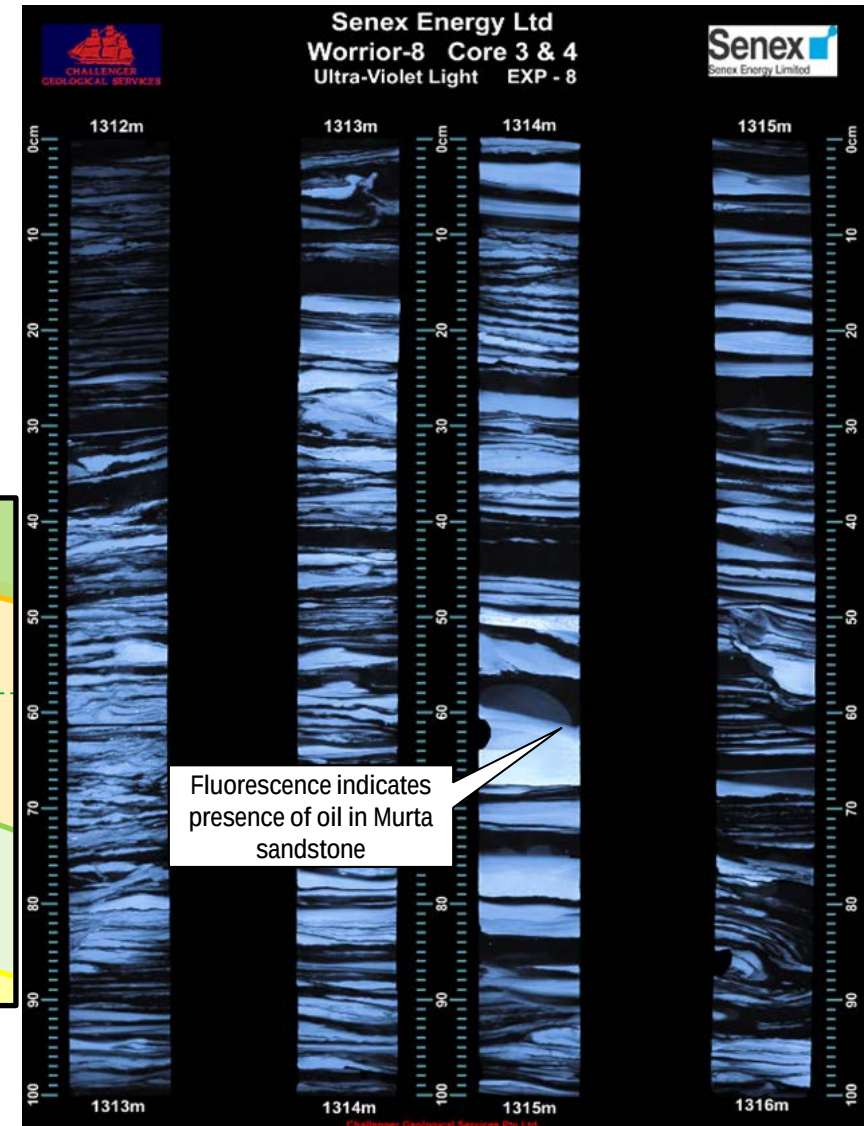
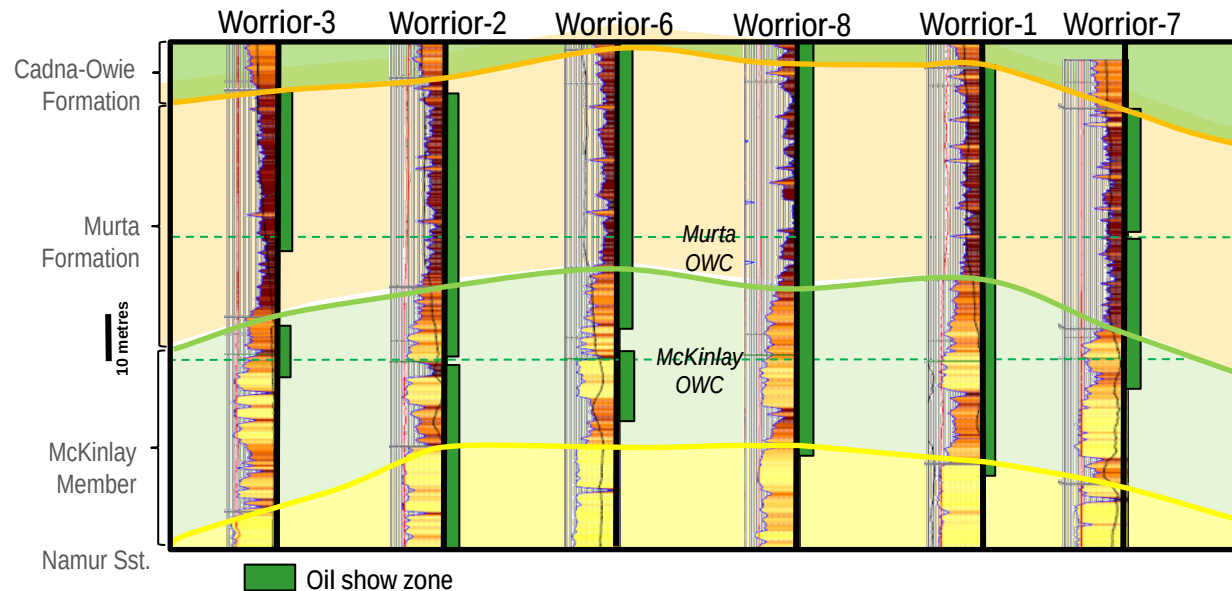


<sup>1</sup> Barrels condensate per day



# Worrior Field Murta potential

- Murta Formation is regionally extensive, thinly interbedded sandstone shale sequence
- Oil shows noted in all wells on closure
- Successfully fraced and produced in adjacent fields
- Plan to frac and test in FY15 <sup>(1)</sup>

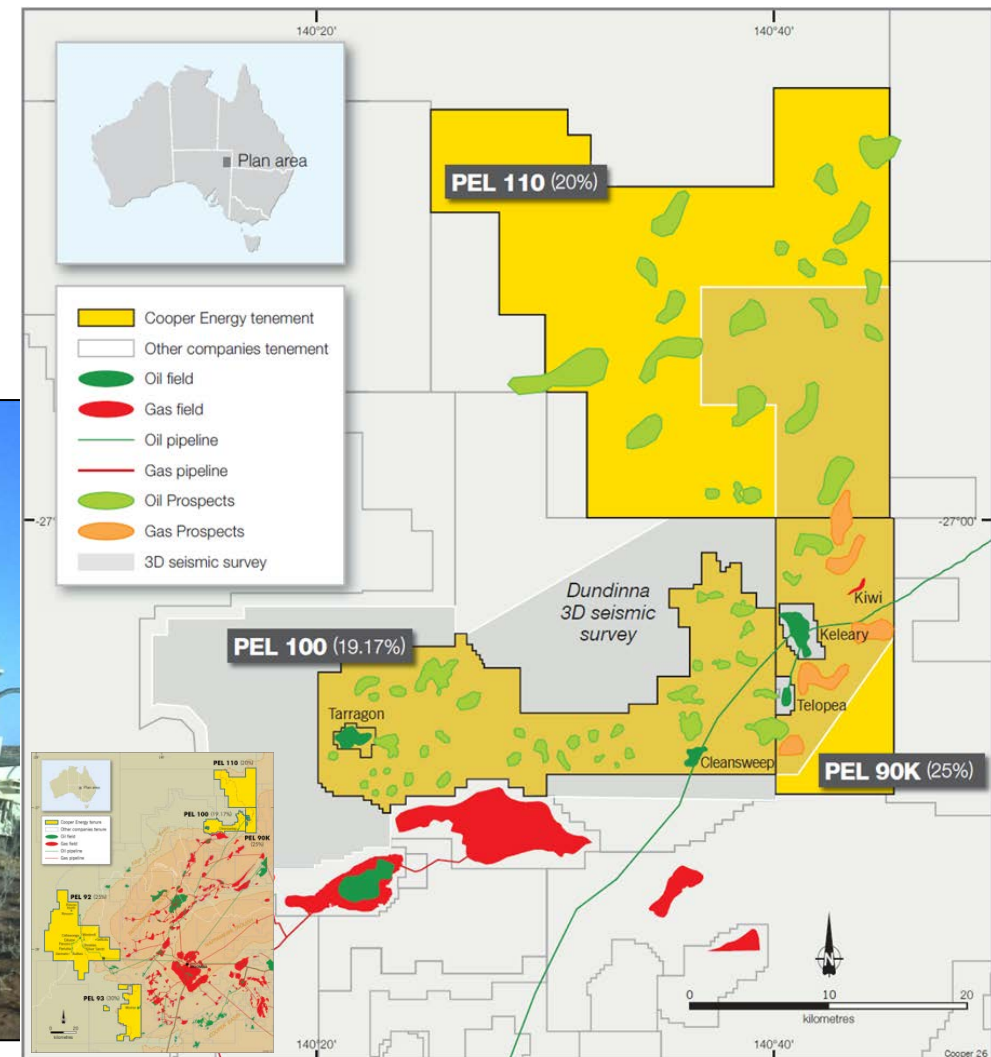


# PEL 90K, 100 & 110

- 577 km<sup>2</sup> Dundinna 3D seismic data acquired
- Processing to be completed July 2014
- Key plays are Hutton/Birkhead and Triassic structural traps
- Drilling commences mid FY15



Vibroseis trucks providing sound wave source as it passes the recording truck.- Dundinna 3D Survey

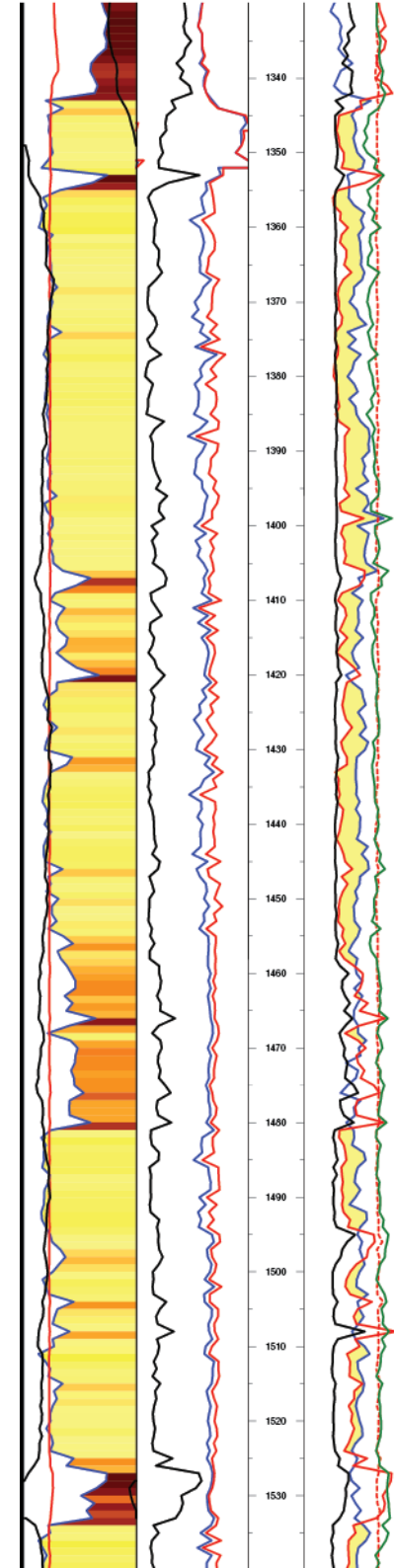






# Indonesia

Andrew Thomas  
Iain MacDougall



# Indonesia – Why South Sumatra?

- Prolific hydrocarbon province
- 285 discoveries
  - 3 billion bbl oil & 25 TCF gas
- Not rigorously explored with 3D
- Emerging Coal Bed Methane (CBM) & shale plays
- US\$8-10/GJ gas prices & market access
- Existing infrastructure
- Fit with COE skill set





# Indonesia – South Sumatra Basin

## Sukananti KSO (COE 55%)

- currently ~300 bopd (100% basis)
- multiple low risk development opportunities
- Contractor share: oil 15%: gas 20%<sup>1</sup>

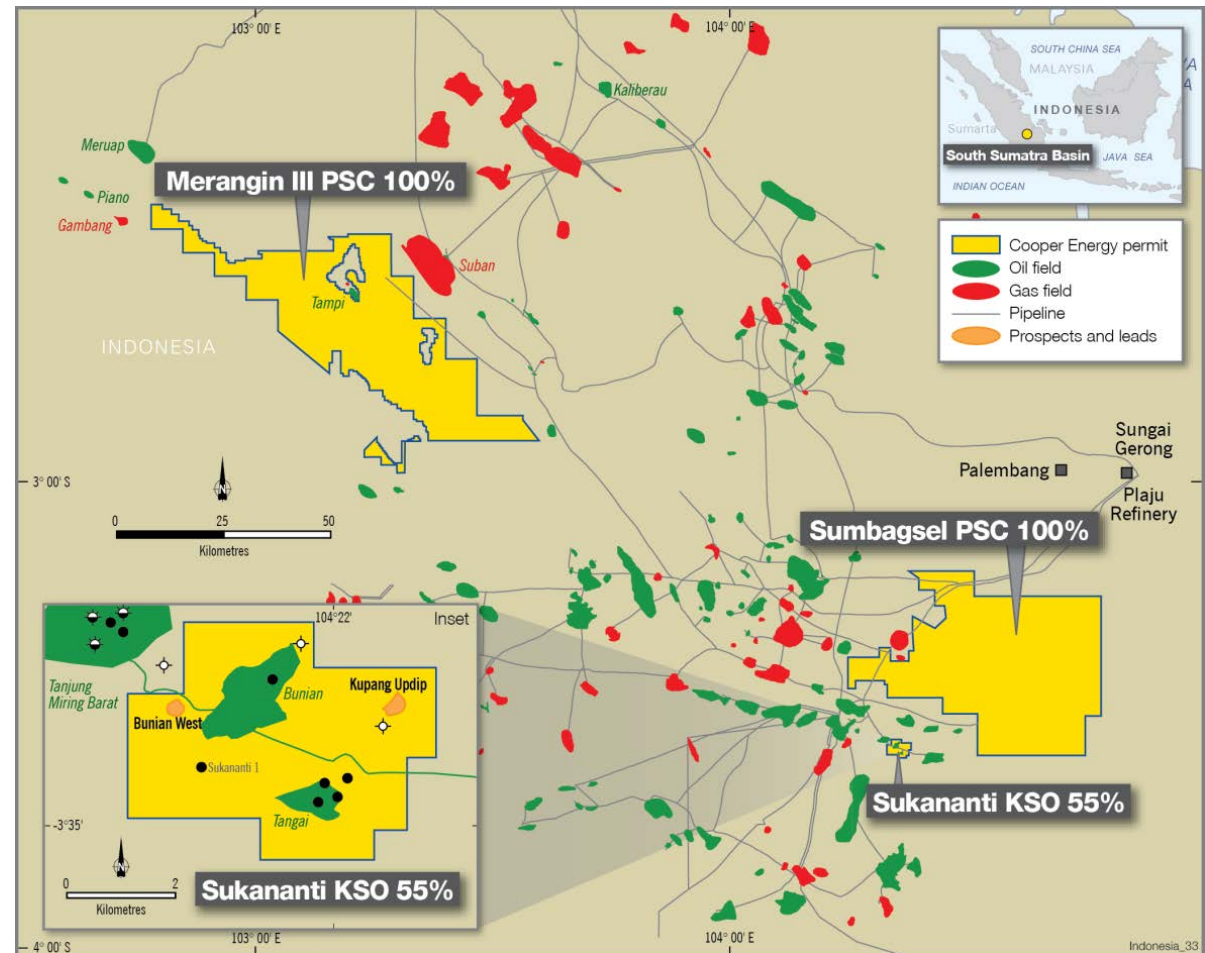
## Sumbagsel PSC (COE 100%)

- shallow oil targets (1-5 MMbbls)
- CBM potential
- Contractor share: oil 25%: gas 40%<sup>1</sup>

## Merangin III PSC (COE 100%)

- highly prospective & large prospects
- CBM & shale gas potential
- Contractor share: oil 30%: gas 35%<sup>1</sup>

<sup>1</sup> After tax



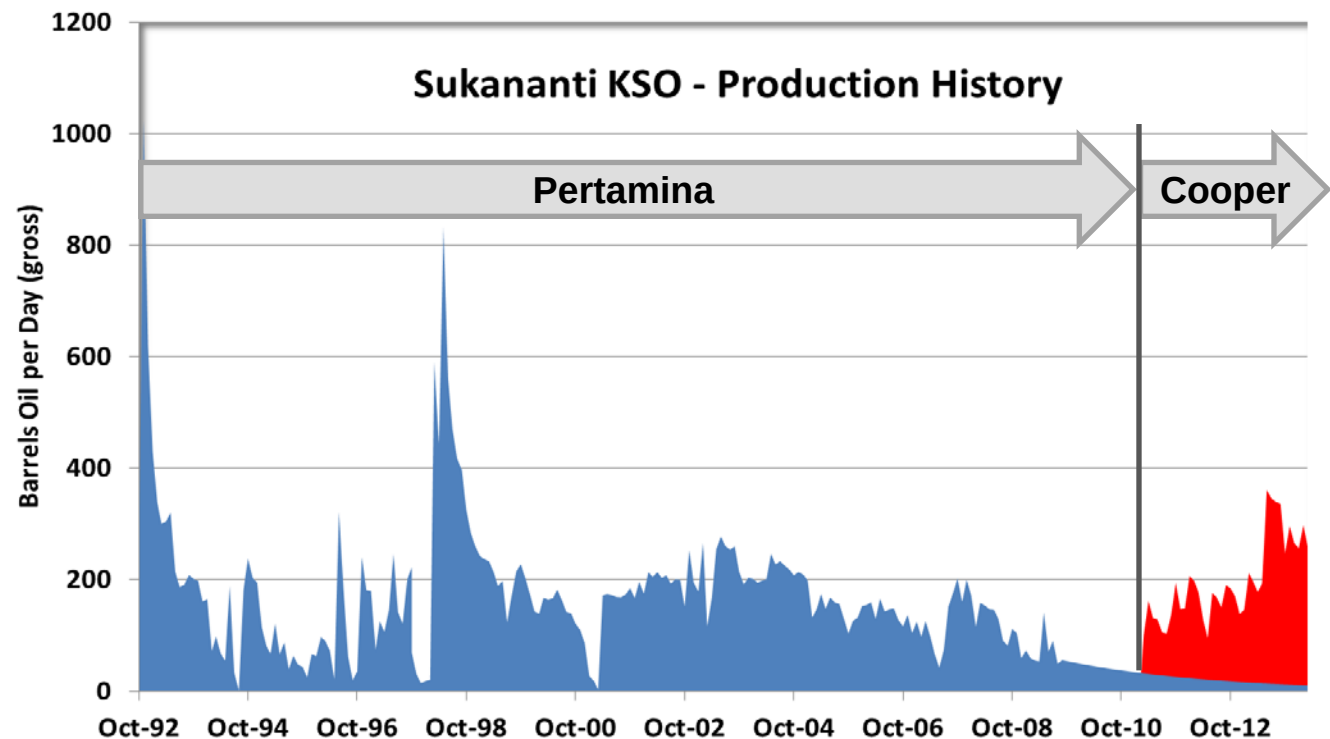
# Sukananti KSO – History

## Pertamina Era:

- Fields discovered in the 1990s: Tangai (1992), Sukananti (1996), Bunian (1998)
- Rapid production decline - poor reservoir management & natural flow only
- Fields considered 'sub-commercial' and offered by tender in 2010

## Cooper Energy Era:

- New approach - underdeveloped marginal field opportunities with upside potential
- Bunian-1 online April 2011, Tangai-1 online June 2013, 195,000 barrels of oil produced to date
- Production increase through application of fit for purpose, low cost technology
- Drilling and workover campaign about to commence – success could deliver ~1,000bopd gross (55% COE share)



# Simple, Low Cost, Effective Facilities



Bunian Central Production Facility (CPF)



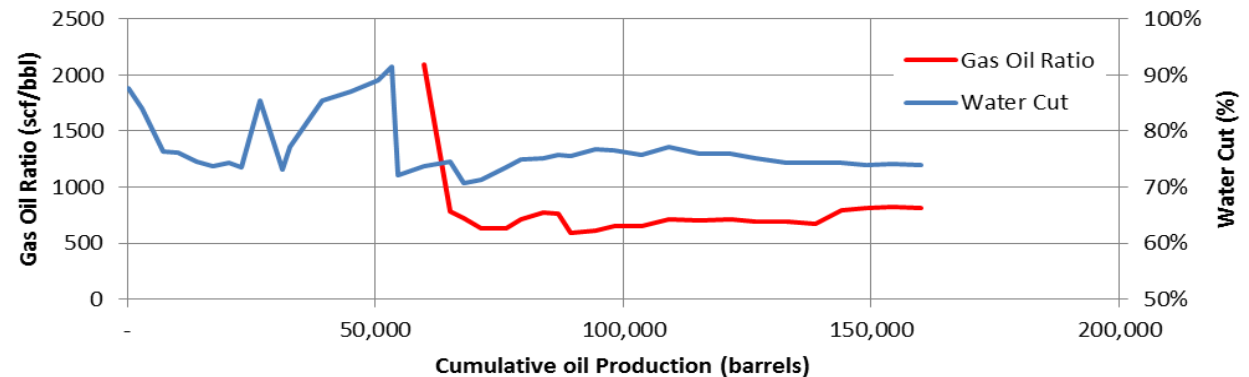
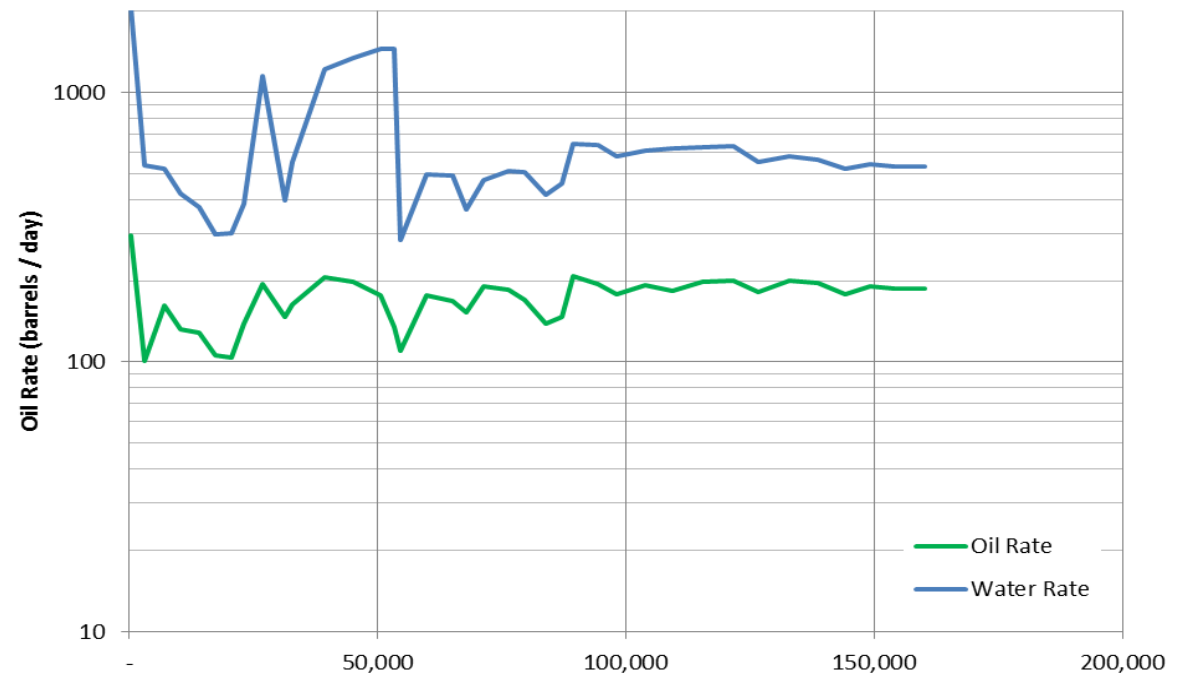
Tangai Extended Production Test

# Bunian - Production Analysis Example

## Bunian-1

- 160,000 barrels produced since Cooper Energy took over
- Oil Rate, Water Cut and GOR flat
- Very slow oil decline rate
- Indicates that well could be accessing a reasonably large resource
- Anticipate additional oil potential accessible via new drilling

BNN-1 Oil Rate vs Cumulative Production

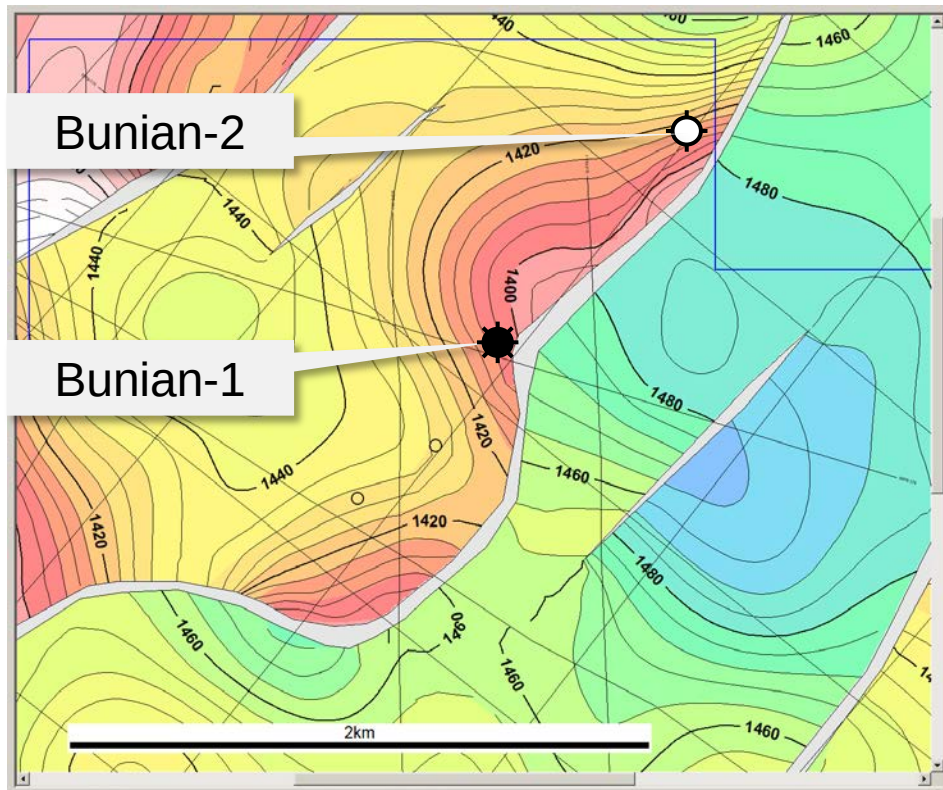




# Bunian Field pre and post 3D seismic

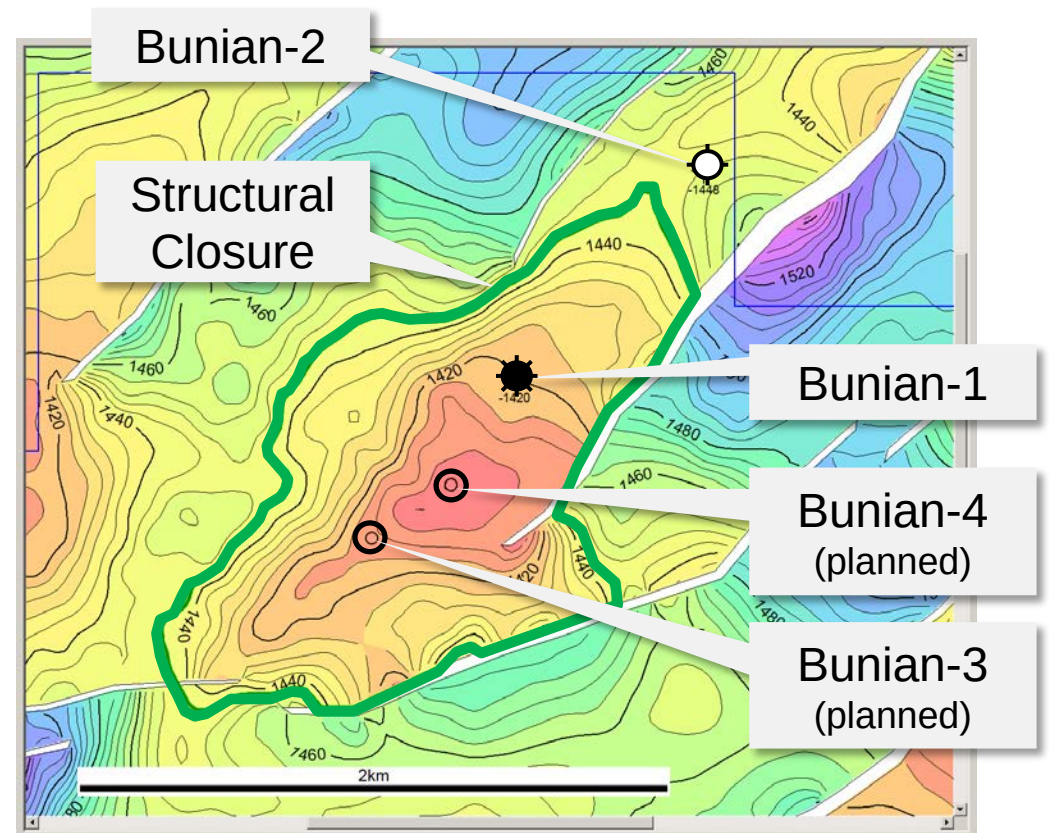
## Reservoir Depth Structure – 2009

- Map based on 2D seismic interpretation



## Reservoir Depth Structure - 2013

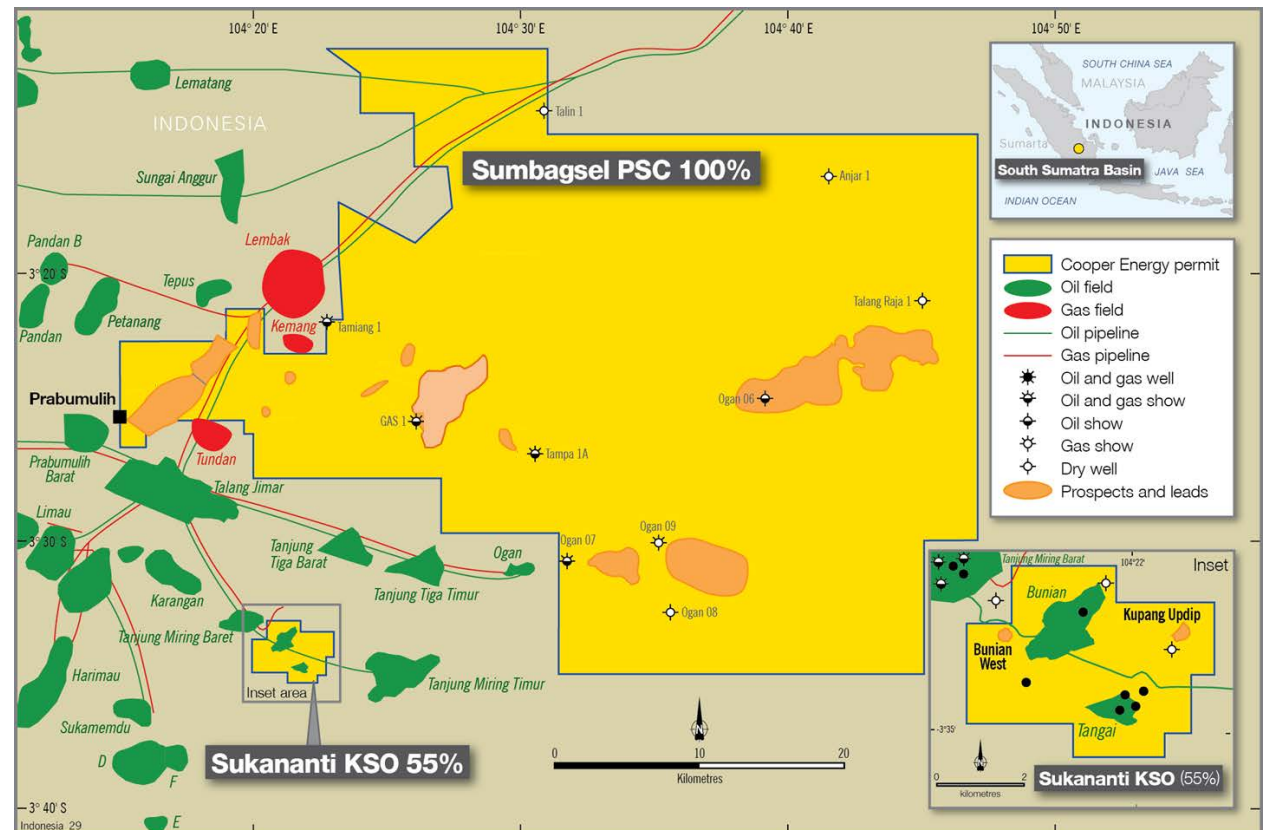
- 3D seismic interpretation
- Structure shape and size changed significantly





# Sumbagsel PSC

- COE awarded permit April 2011 for a 6 year initial exploration term
- Acquired 257 km of 2D seismic
- Key play types are structural and carbonate reefs
- Typical prospect sizes 5-10 MMbbl oil
- CBM potential
- Forward plan
  - complete new seismic interpretation
  - update prospect portfolio
  - farm-out equity to reduce capital risk
  - drill prospect FY15





# Sumbagsel 2013 Seismic Survey

257km acquired, up to 650 people in field, 179 days, 540,000 man-hours, zero lost time injuries



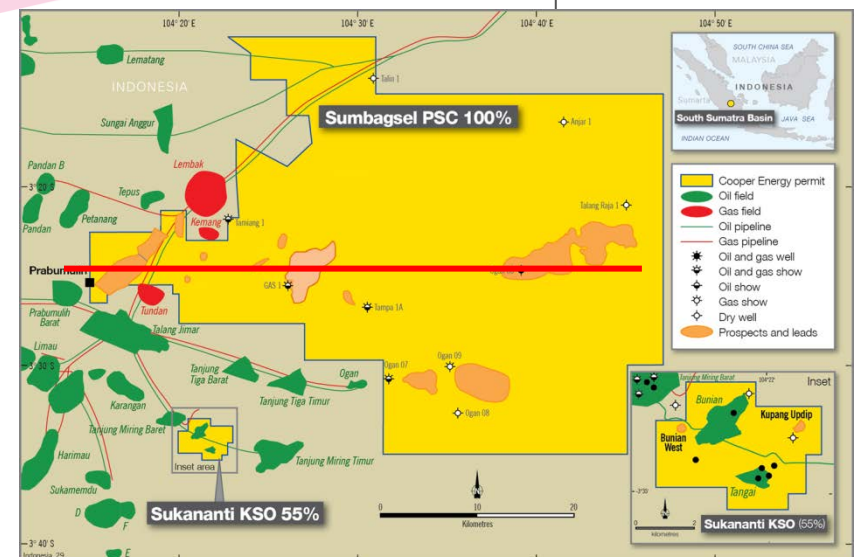
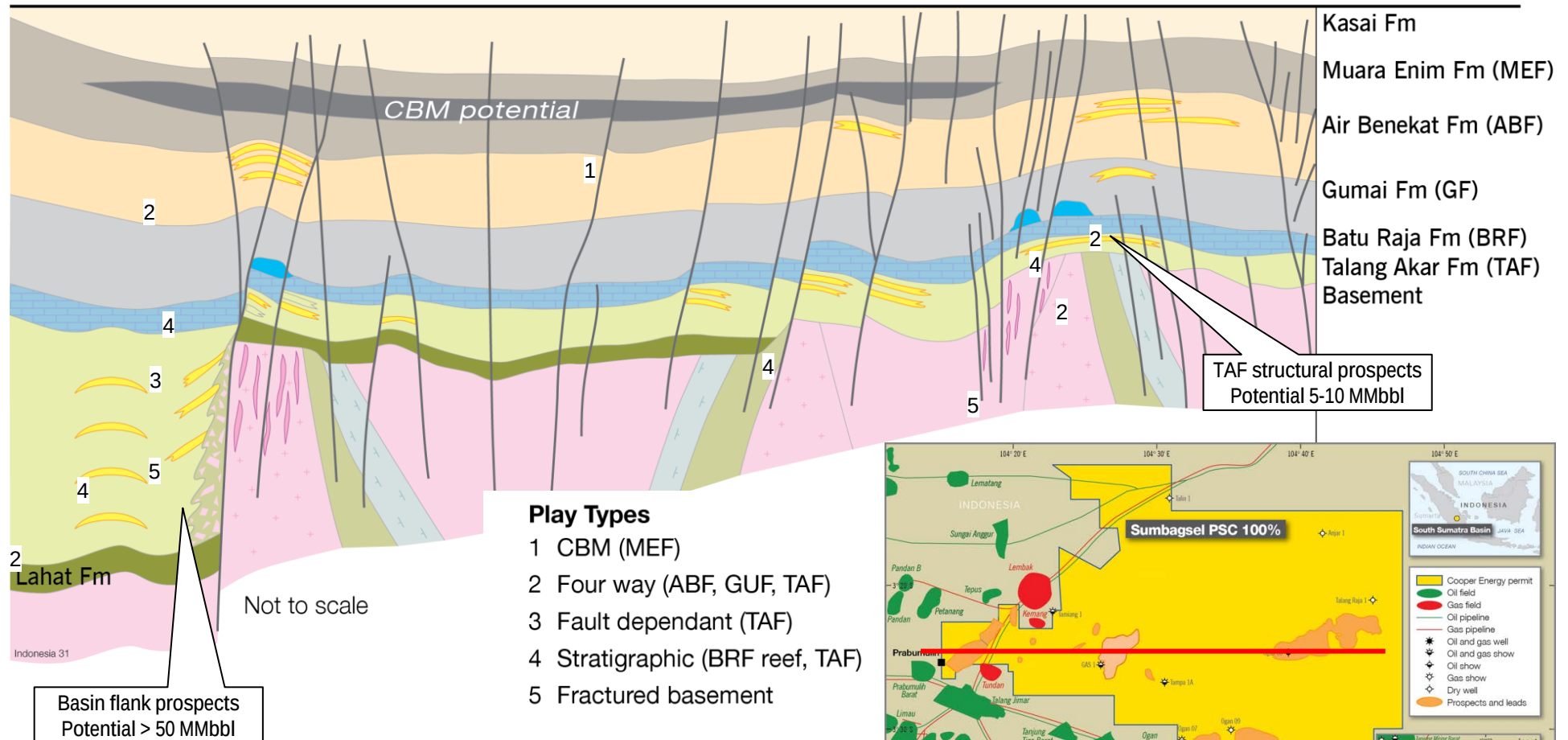


# Sumbagsel PSC Play Types

Northwest

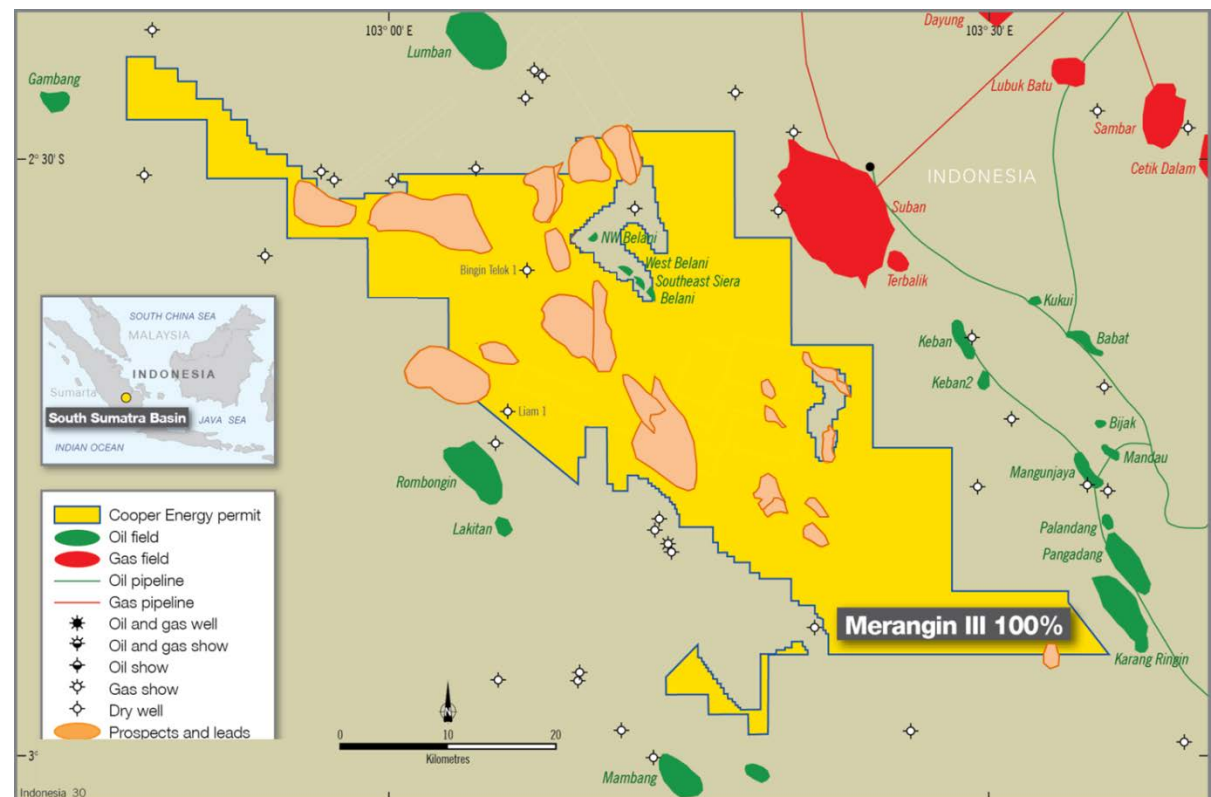
## Sumbagsel PSC - Schematic Section

Southeast



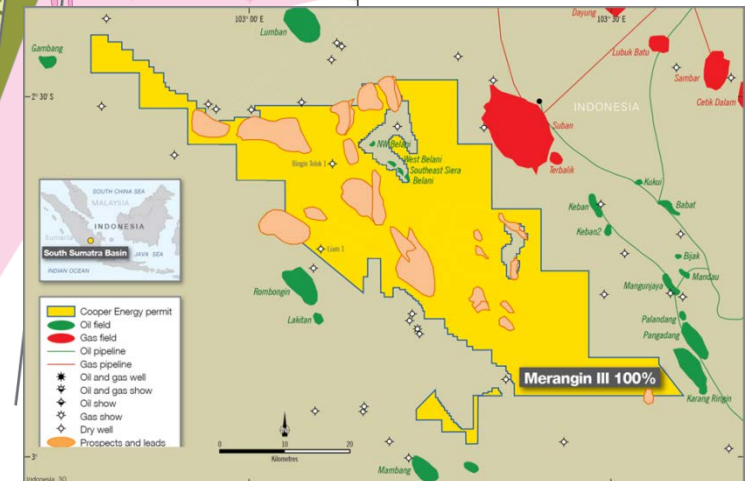
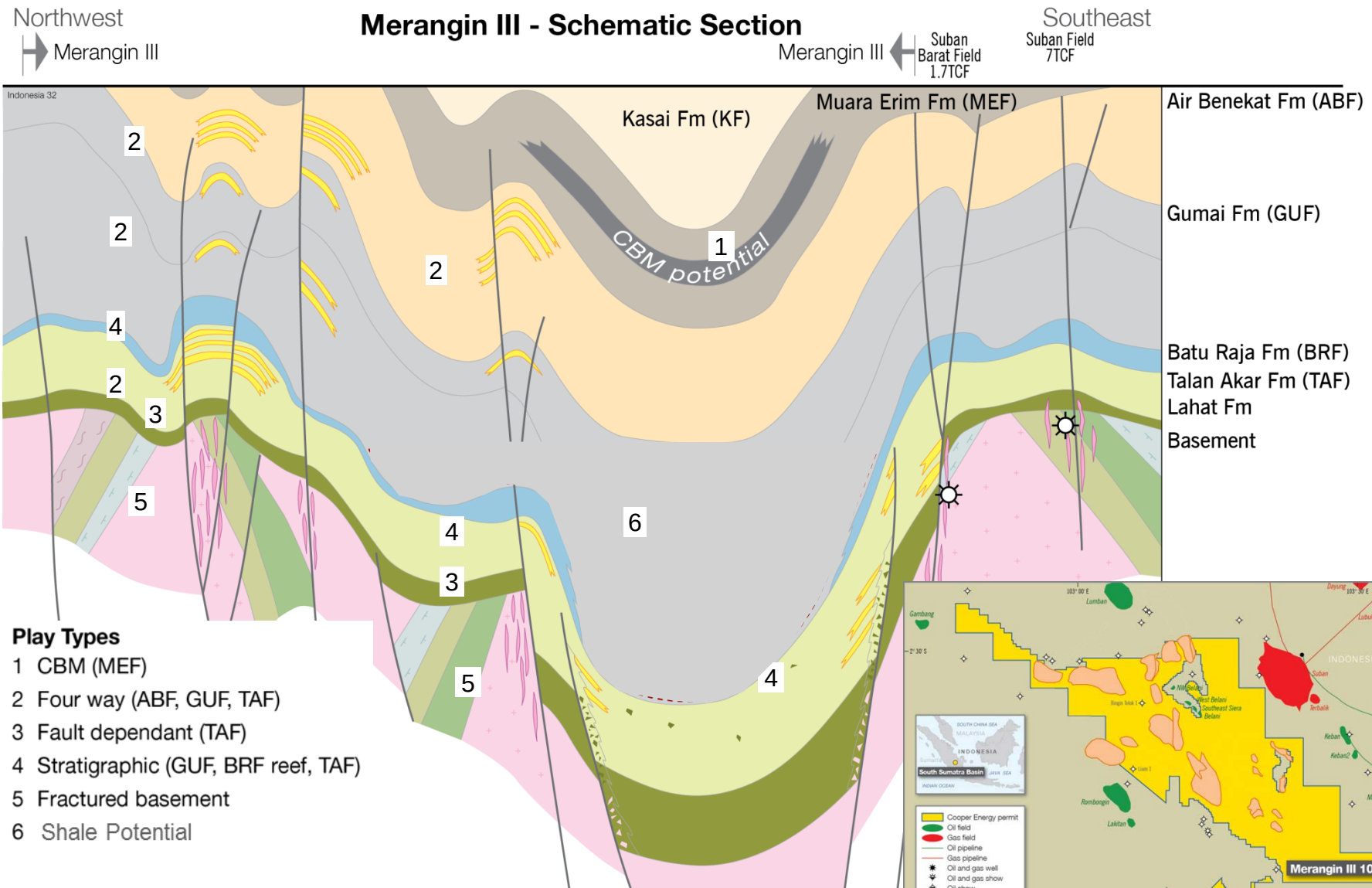
# Merangin III PSC

- COE awarded permit May 2013 for a 6 year exploration initial term
- Key play types are structural and carbonate reefs
- Shallow oil prospect potential 5-10MMbbl
- Deep gas prospect potential 100 to > 500Bcf
- CBM potential
- Forward plan
  - complete new seismic interpretation and prospect portfolio update
  - farm-out equity to reduce capital risk
  - acquire new seismic in FY15



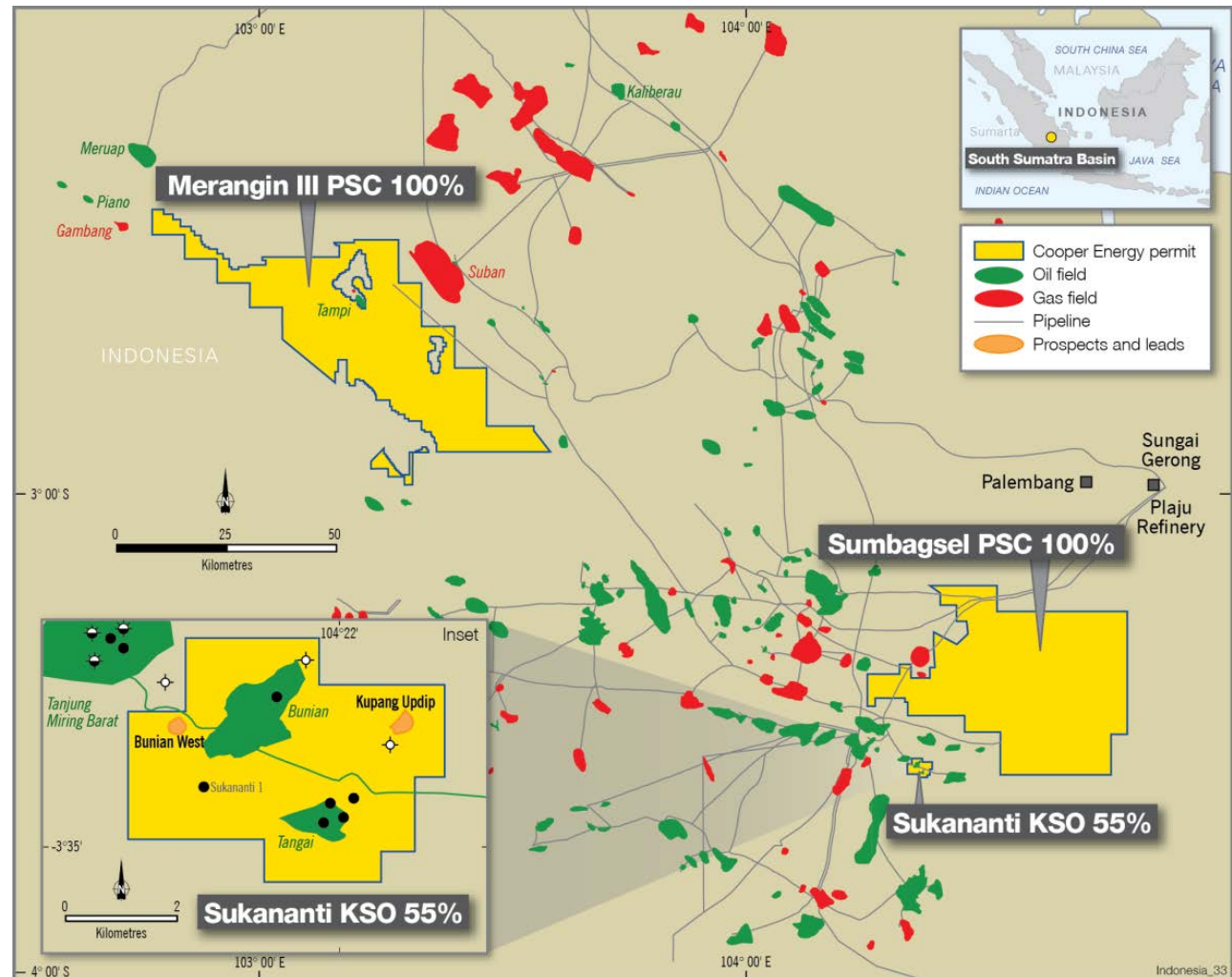


# Merangin III PSC Play Types



# Indonesia – Look forward

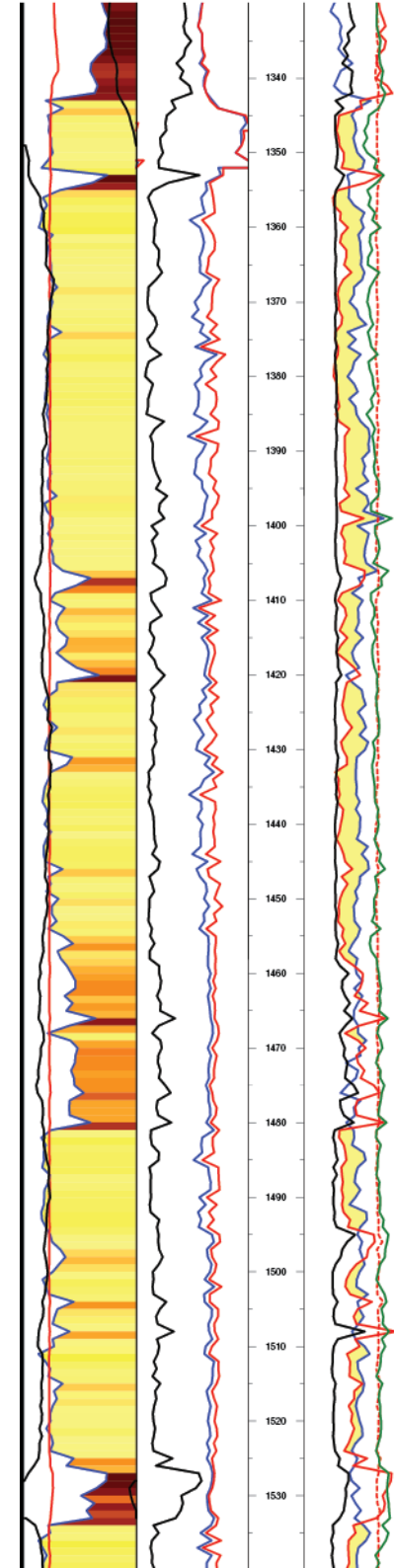
- Increasing production in Sukananti KSO
- Drill 2-3 wells in Sukananti KSO
- Complete prospect inventory upgrade
  - mapping new seismic
  - completing geologic studies
- Farmout equity early FY15
- Drill 1 well in Sumbagsel PSC
- Acquire seismic in Sumbagsel and Merangin III PSCs





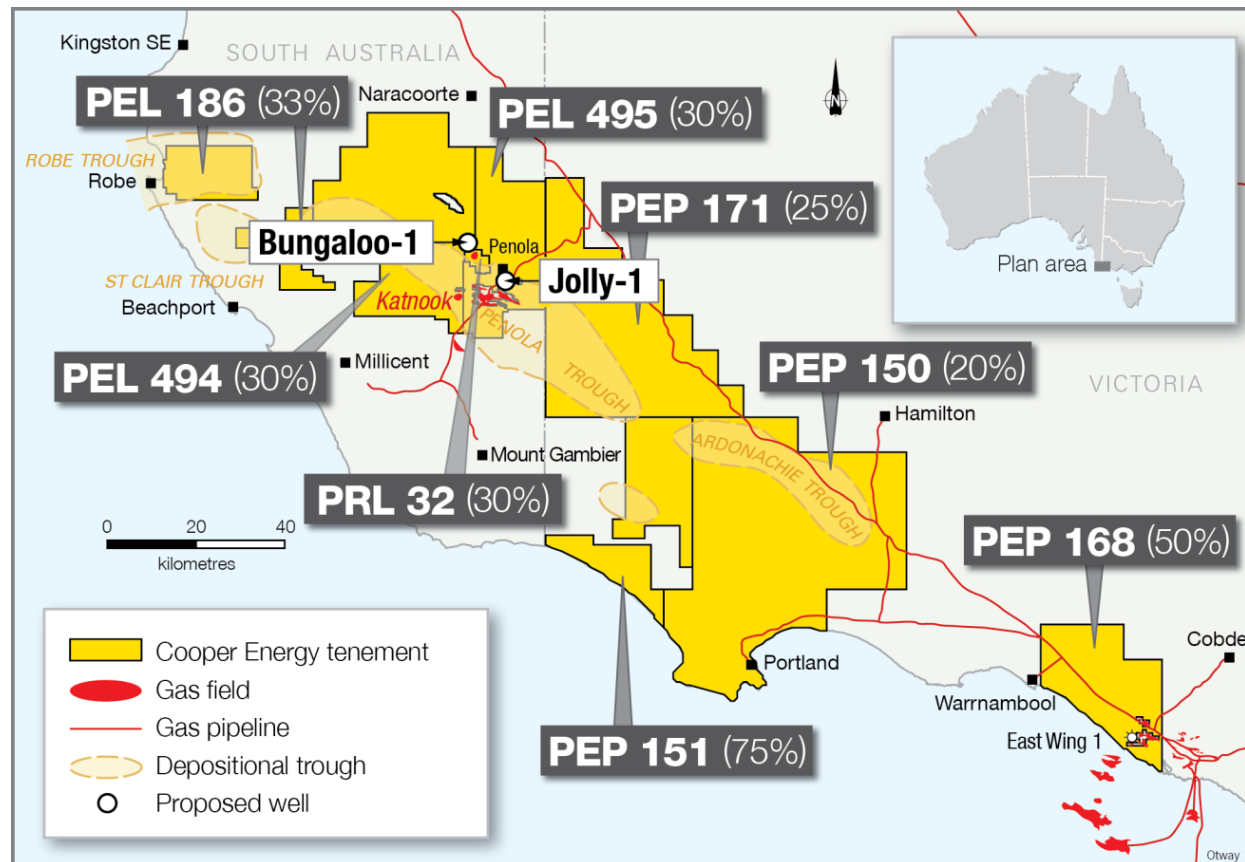
# Otway Basin

Andrew Thomas



# Otway

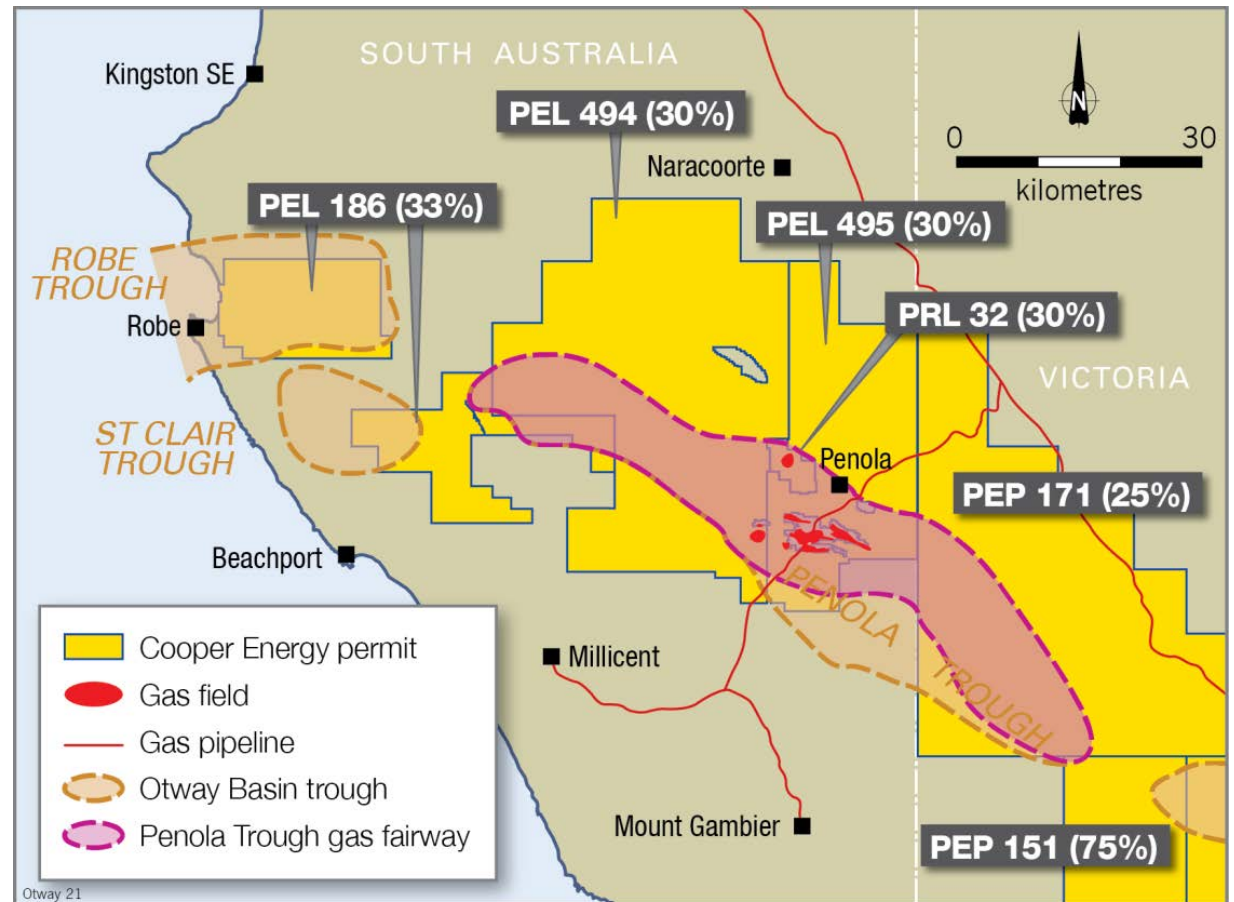
- Equity in 8 onshore exploration permits
- Jolly-1 complete and core under evaluation
- Bungaloo-1 currently drilling
- Objective to evaluate Casterton shale potential & Lower Sawpit tight gas



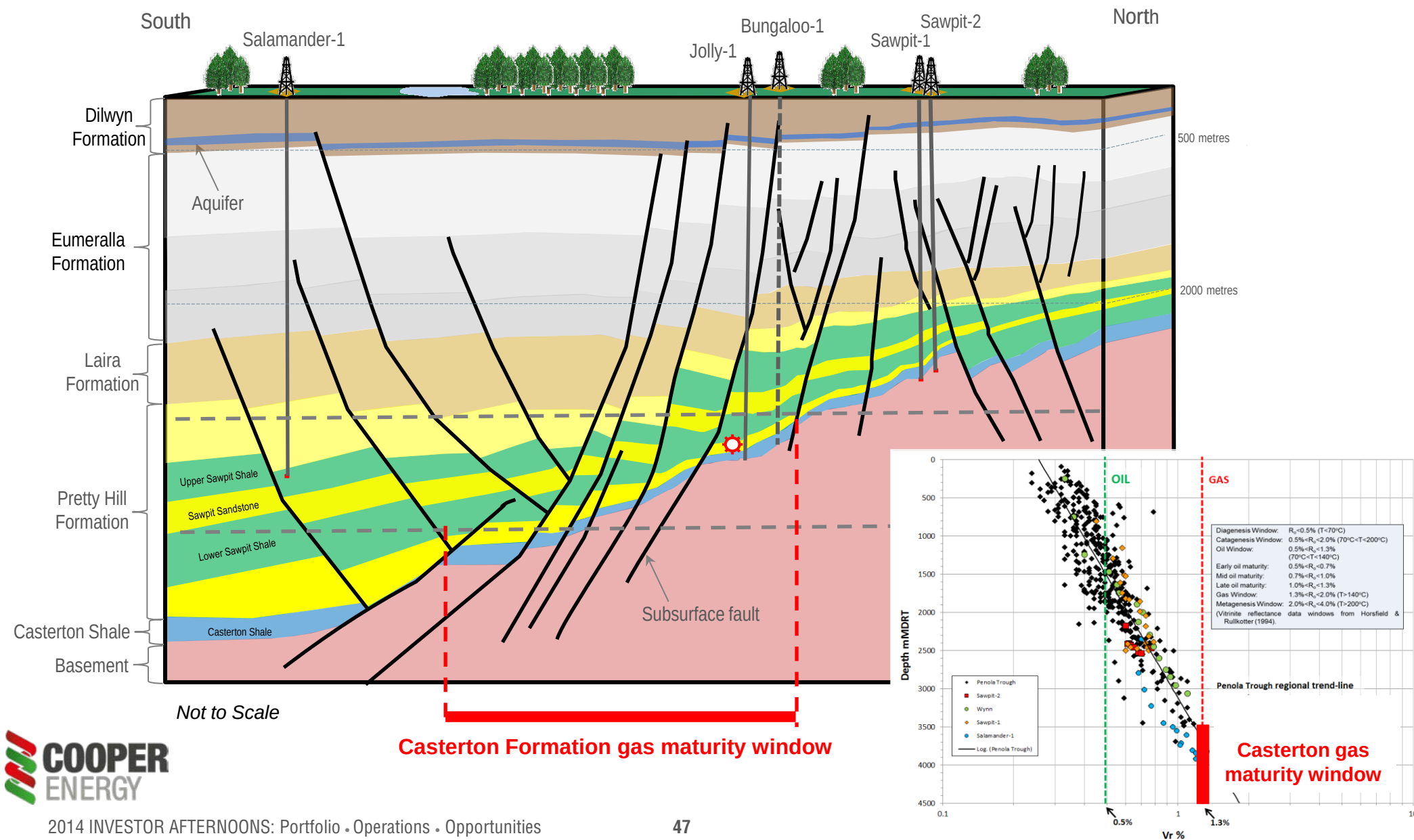


# Casterton Play Model

- Penola Trough contains up to 9km of sediment
- Casterton is a proven source rock
- Evaluation objectives:
  - drill wells where Casterton is thermally mature for late oil / gas generation
  - drill outside of mapped closure
  - collect core data to assess productive potential

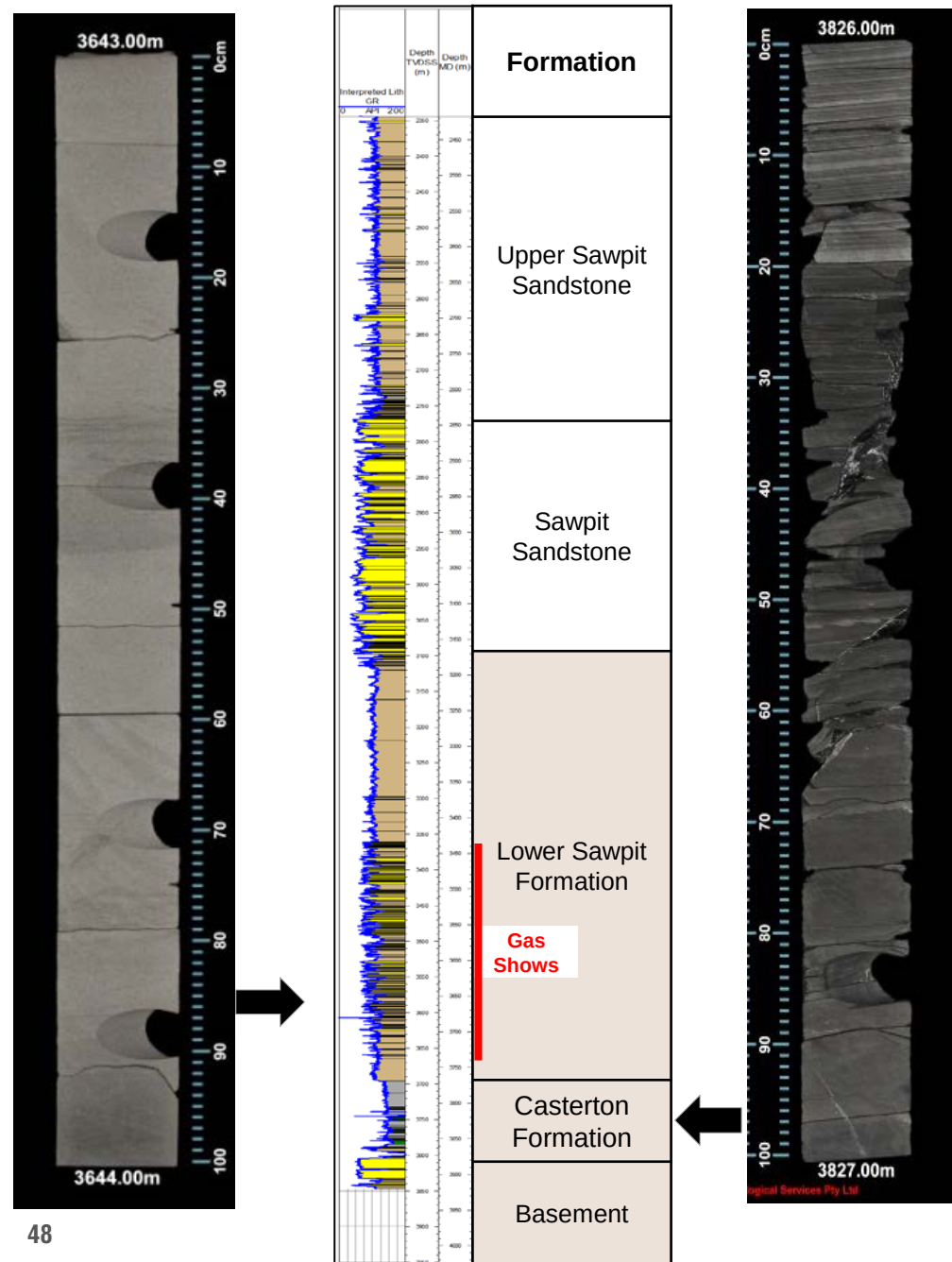


# Penola Trough Subsurface Schematic



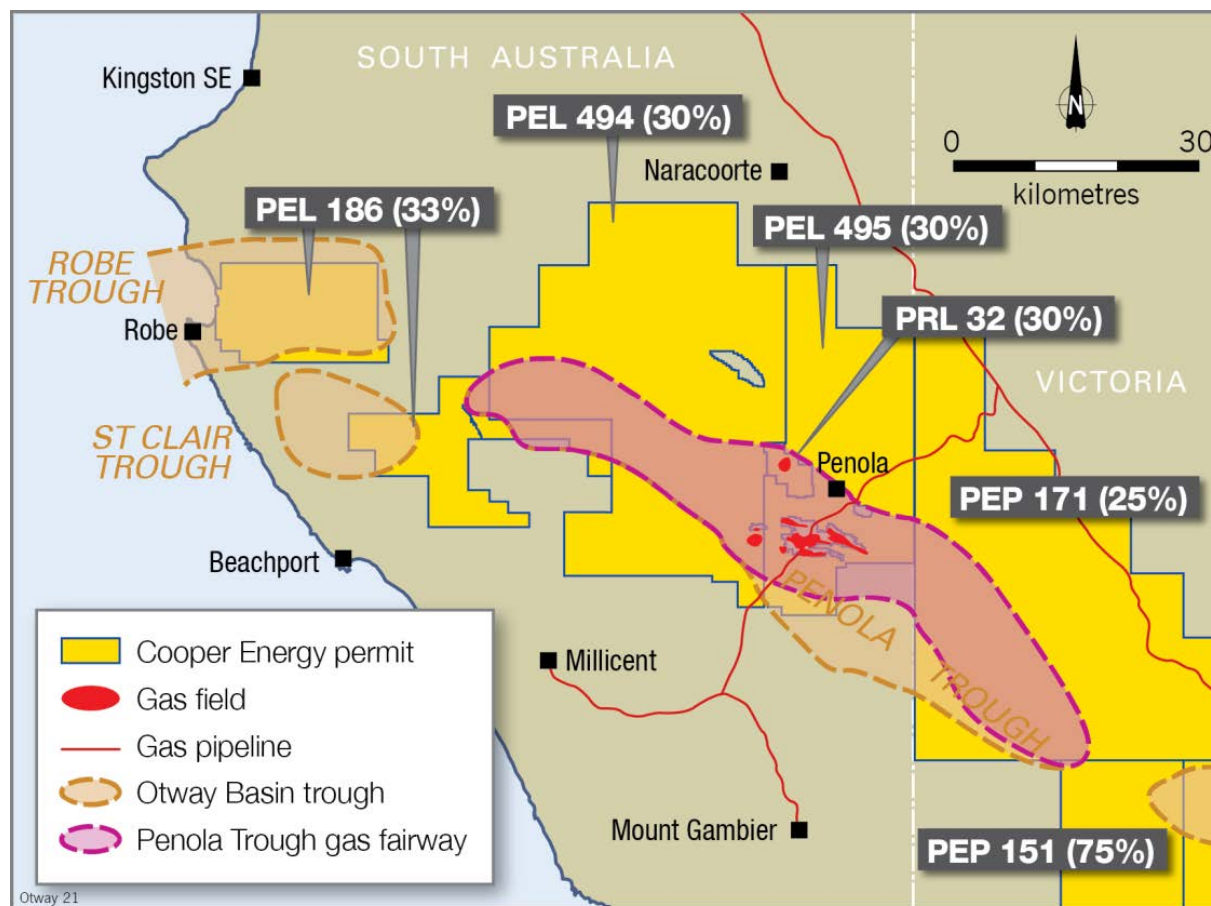
# Jolly-1 results

- Drilled to a total depth 4,026m
- Cores cut in Lower Sawpit and Casterton Formations
- 340m of gas shows over Lower Sawpit section



# Otway – Look Forward

- Complete Bungaloo-1 well
- Complete analysis of Lower Sawpit and Casterton sections
- Determine next steps



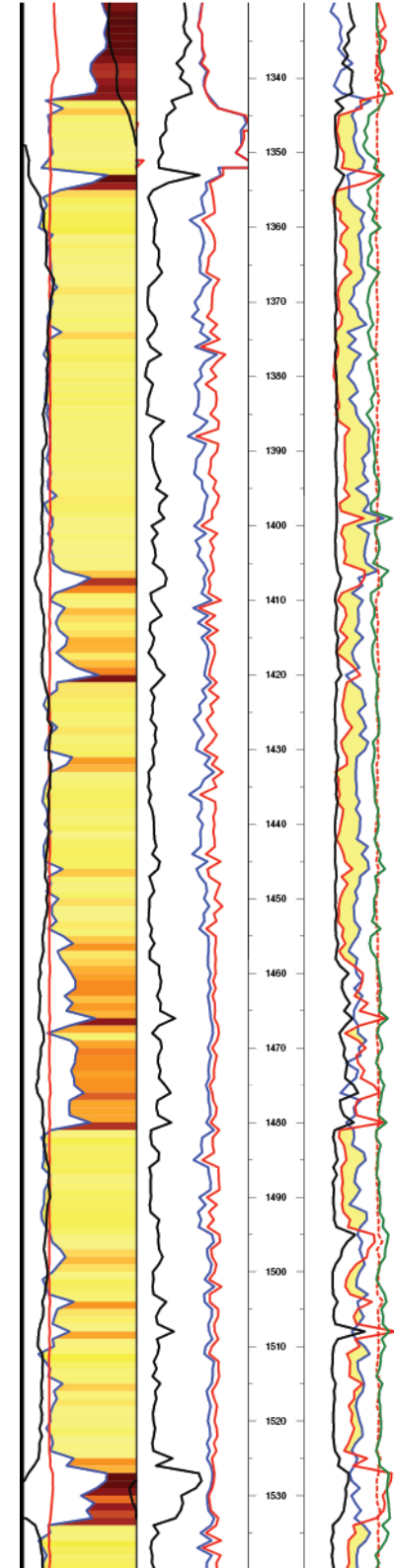




# Gippsland Basin

Hector Gordon

Iain MacDougall



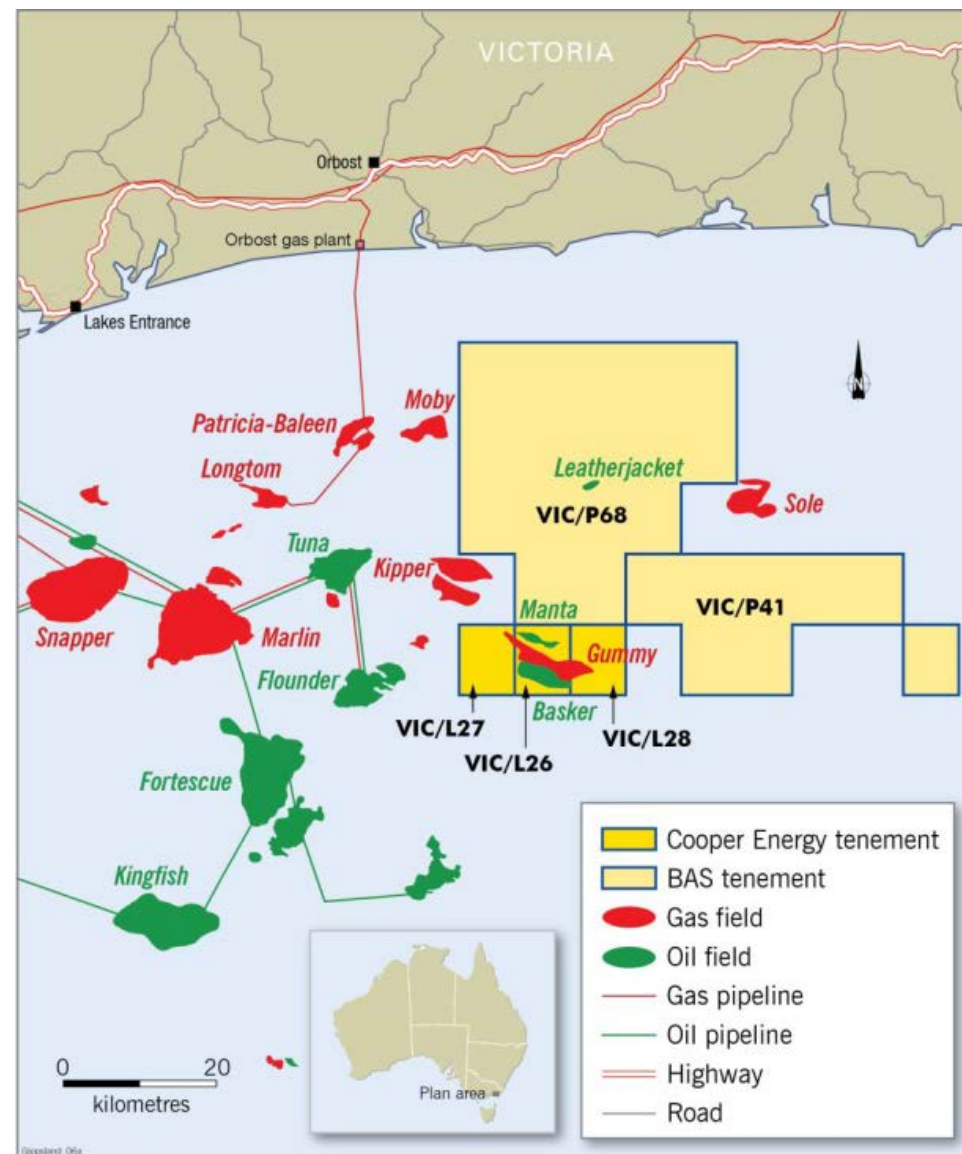
# Gippsland Basin

## Why offshore Gippsland Basin?

- Proven conventional hydrocarbon province
- Gas & oil exploration opportunities
- Gas & oil development opportunities
- Access to gas market & infrastructure
- Fit with COE skill set

## Why the BMG Project?

- Undeveloped gas, liquids and oil
- Existing wells and gas gathering infrastructure
- Very promising economics
- Value add options with nearby fields
- Exploration upside
- Available gas market
- Increasing gas prices



# Gippsland – BMG

## Background – Oil Project

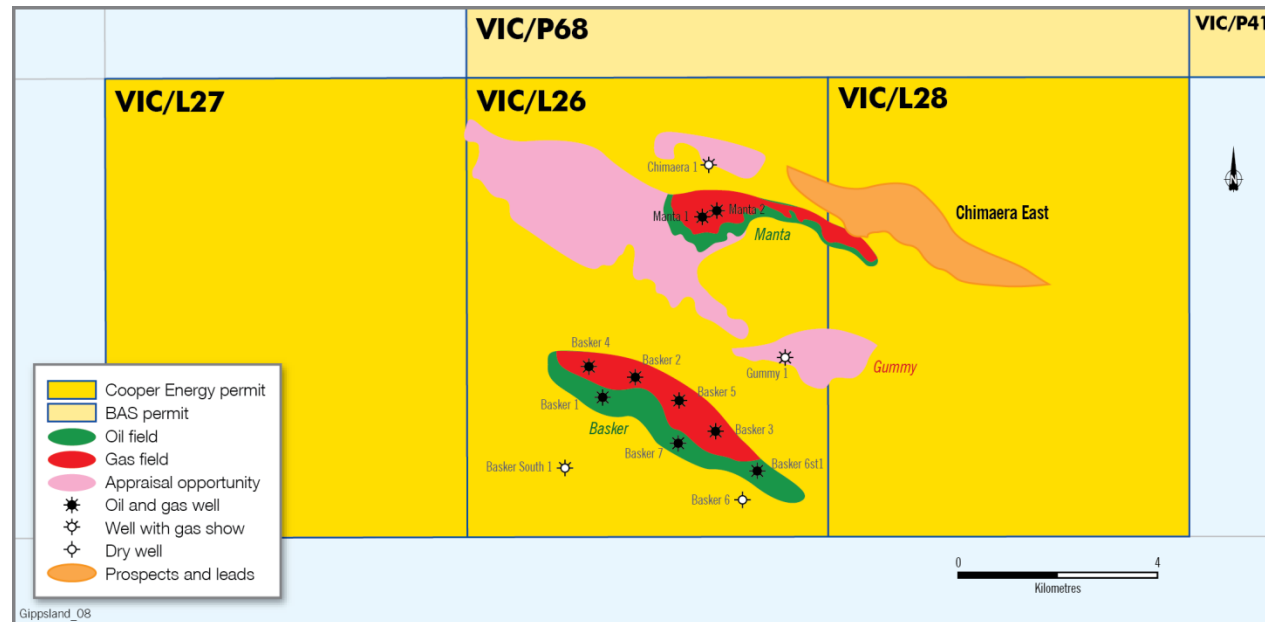
### Overview of remaining resource

Cooper Energy purchased 65% equity from Roc & Beach

- \$1 million cash
- \$5 million on first production
- Assumption of portion of abandonment liability if required

### Cooper Energy appointed Operator

- Focus on development of gas resource



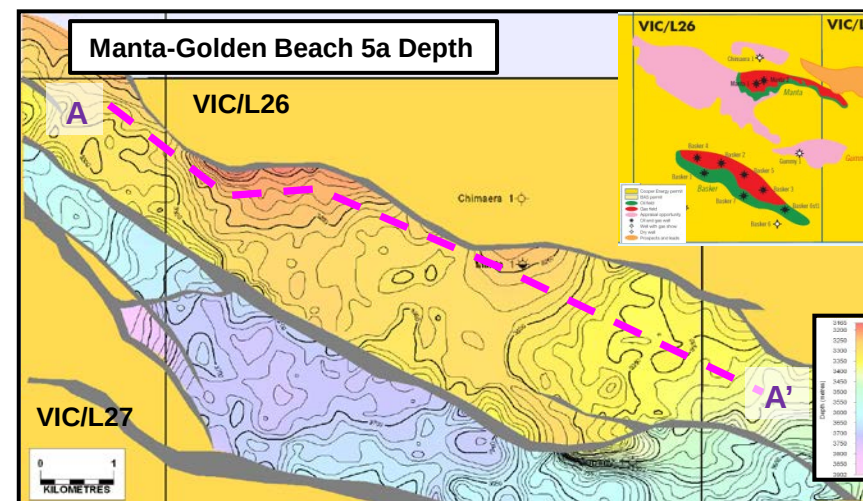
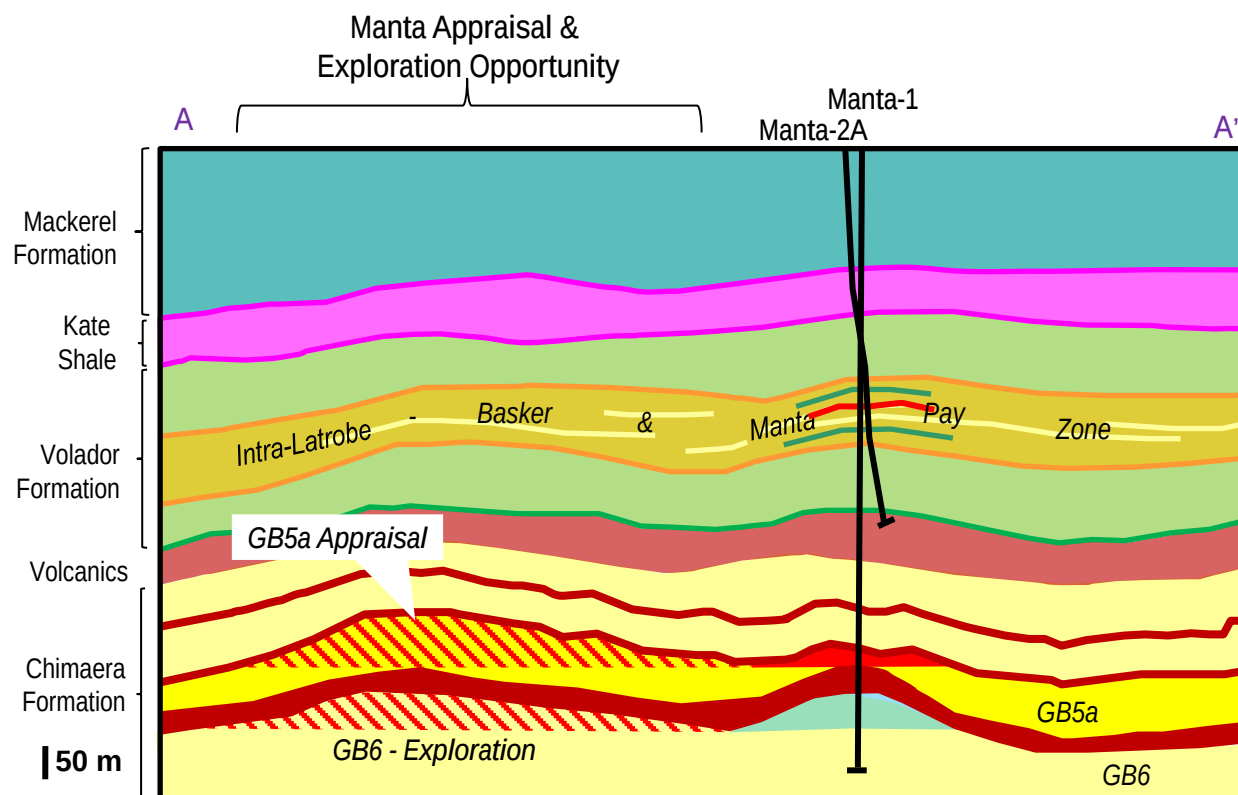
# BMG - Additional prospectivity

## Offset Appraisal

- Chimaera
- Manta NW
- Gummy

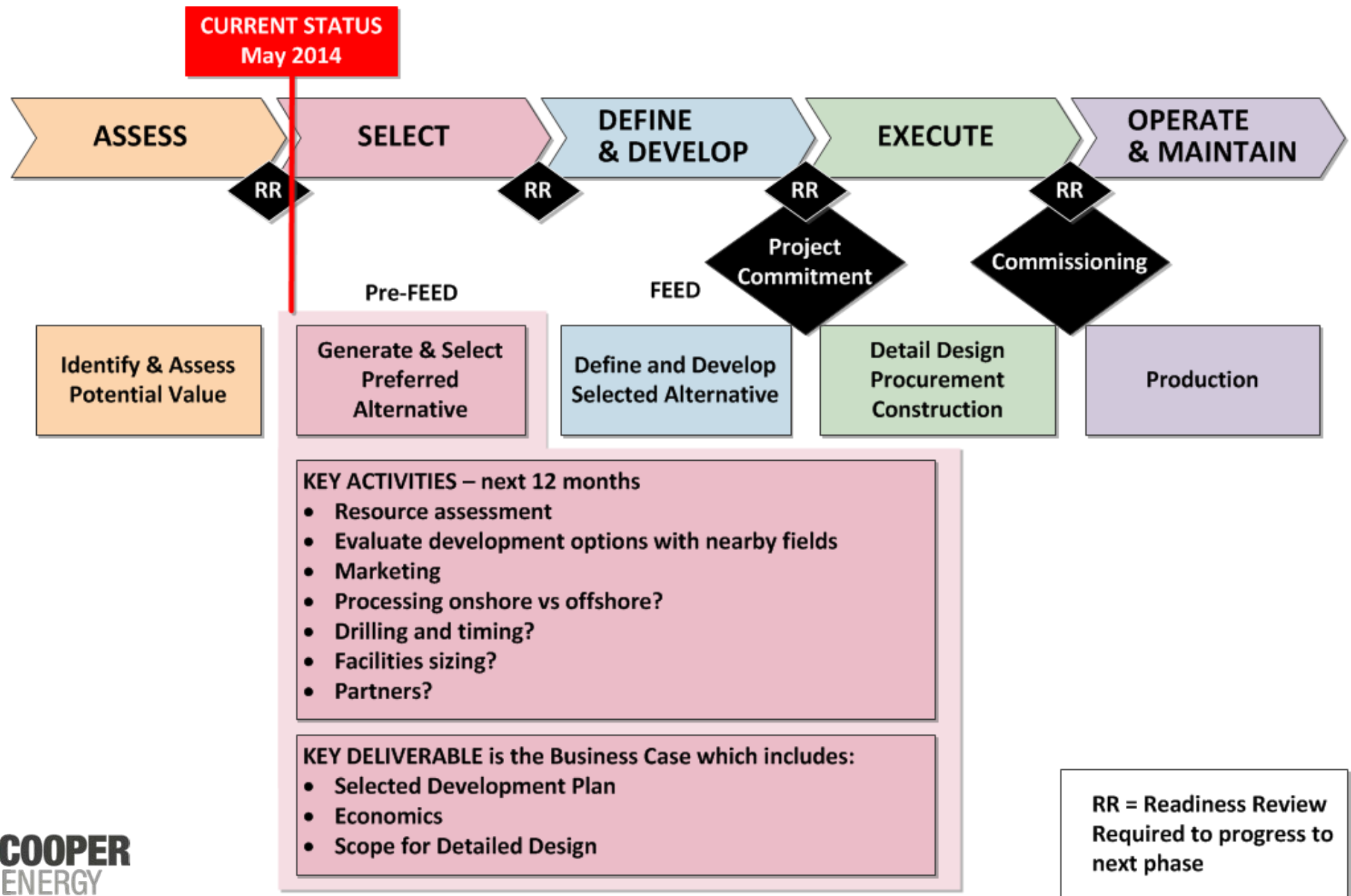
## Exploration

- Chimaera East





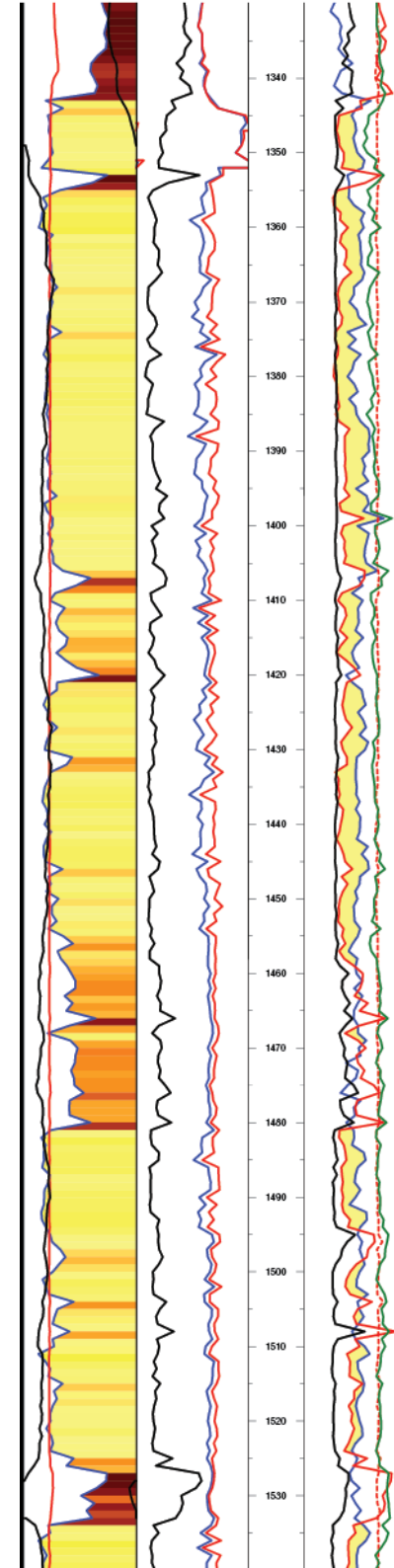
# BMG – Value identification & realisation





# Tunisia

Andrew Thomas

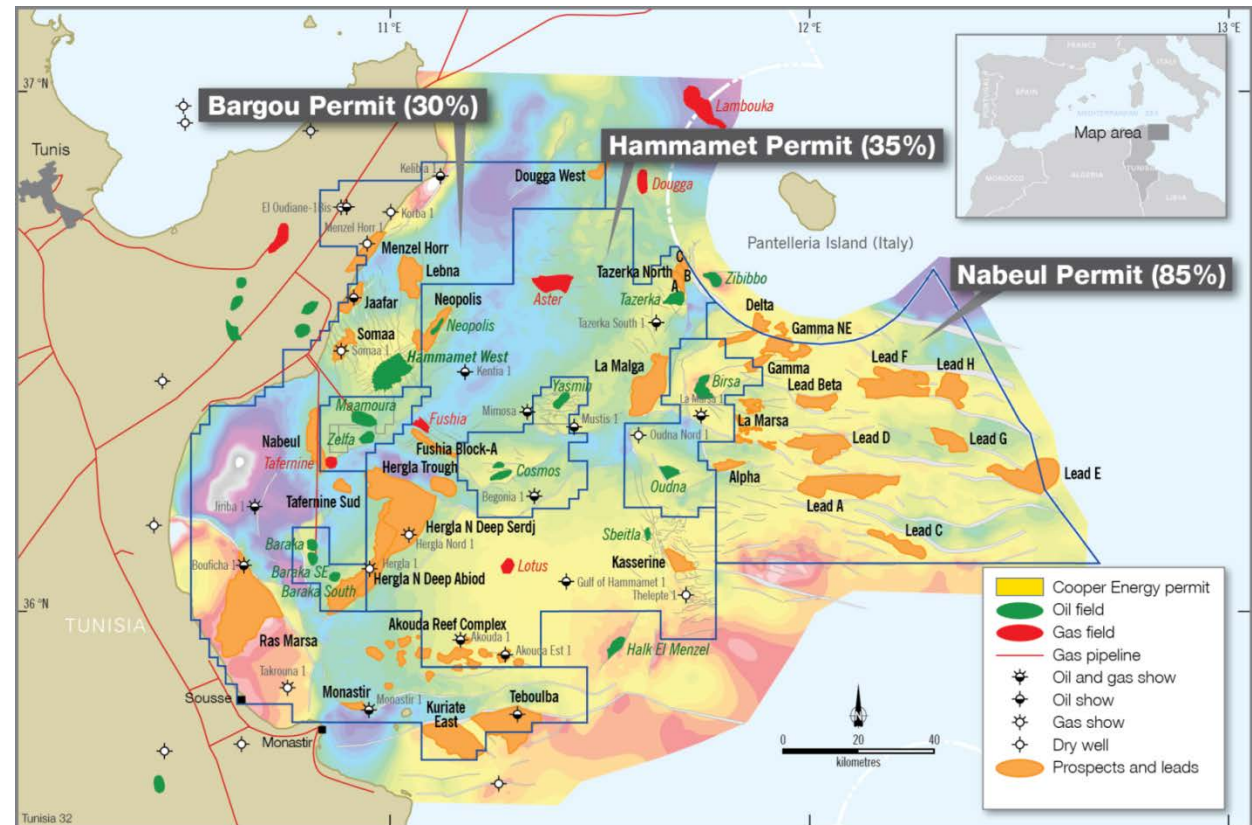


# Tunisia

- 3 permits covering 12,600 km<sup>2</sup>
- Hammamet West oil discovery a potential development opportunity
- Multiple prospects and emerging fractured carbonate play potential proved by Hammamet West-3 ST-1
- Competitive fiscal terms

## Divestment plan

- Data room opened March 2014
- Aiming for completion during 2014



# Hammamet West Field Contingent Resources

## Contingent Resource probabilistic estimates for the Abiod Fm

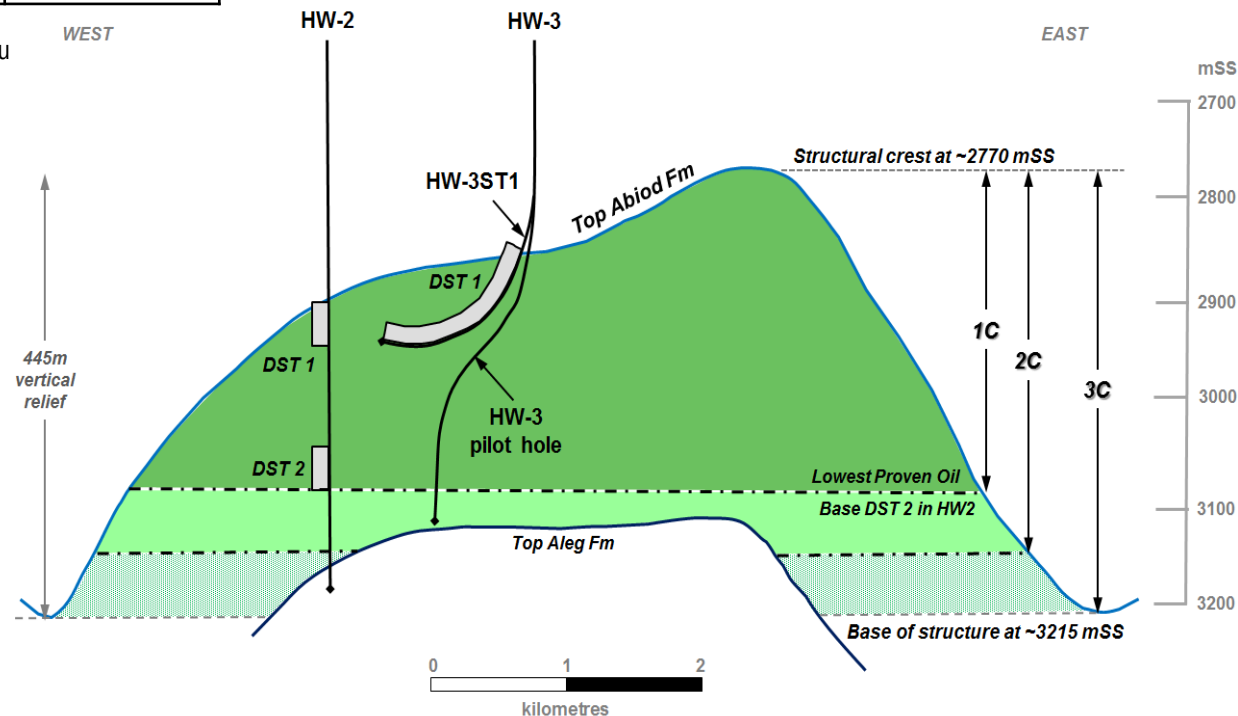
| Gross Contingent Resource Estimates                              |                    | 1C<br>(P90) | 2C<br>(P50) | 3C<br>(P10) |
|------------------------------------------------------------------|--------------------|-------------|-------------|-------------|
| Oil                                                              | MMbbl              | 11.6        | 34.5        | 99.8        |
| Gas <sup>2</sup>                                                 | Bcf                | 5.3         | 17.9        | 59.7        |
| Total                                                            | Mmboe <sup>3</sup> | 12.6        | 37.7        | 110.4       |
| Net <sup>4</sup> Contingent Resource Estimates for Cooper Energy |                    |             |             |             |
| Oil                                                              | MMbbl              | 3.5         | 10.4        | 29.9        |
| Gas <sup>2</sup>                                                 | Bcf                | 1.6         | 5.4         | 17.9        |
| Total                                                            | MMboe              | 3.8         | 11.3        | 33.1        |

<sup>1</sup>Gross: Contingent Resources attributable to 100% joint venture interest in Bargou Permit, Tunisia

<sup>2</sup> Gas: Associated gas dissolved in oil at reservoir conditions

<sup>3</sup> MMboe: Million barrels of oil equivalent. Conversion factor of 1 boe = 5,620 scf (1 Bcf = 0.178 MMboe)

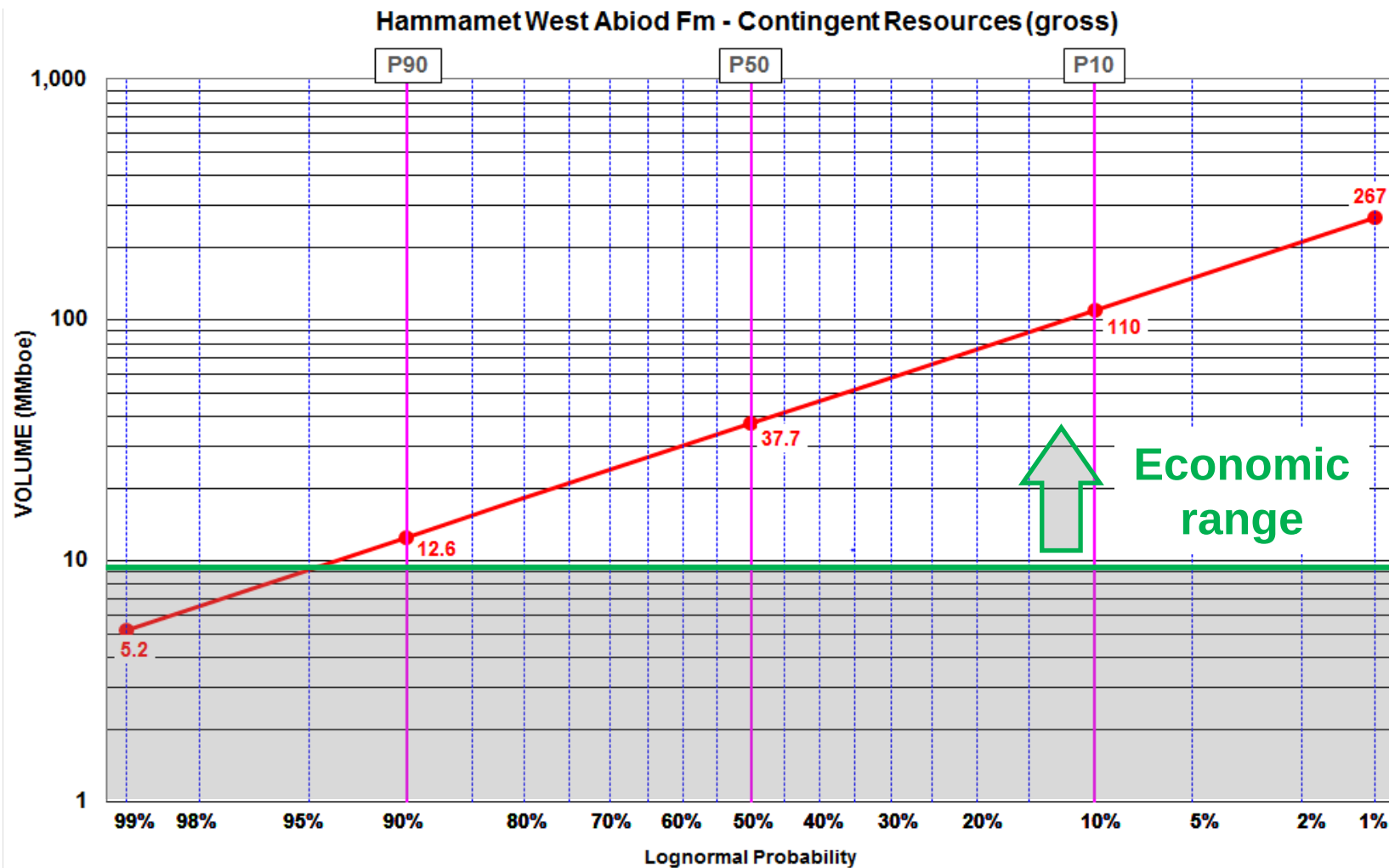
<sup>4</sup> Net: Contingent Resources attributable to Cooper Energy's 30% interest in Bargou Permit, Tunisia





# Contingent Resource Range

95% of the Gross Contingent Resource range is potentially economic

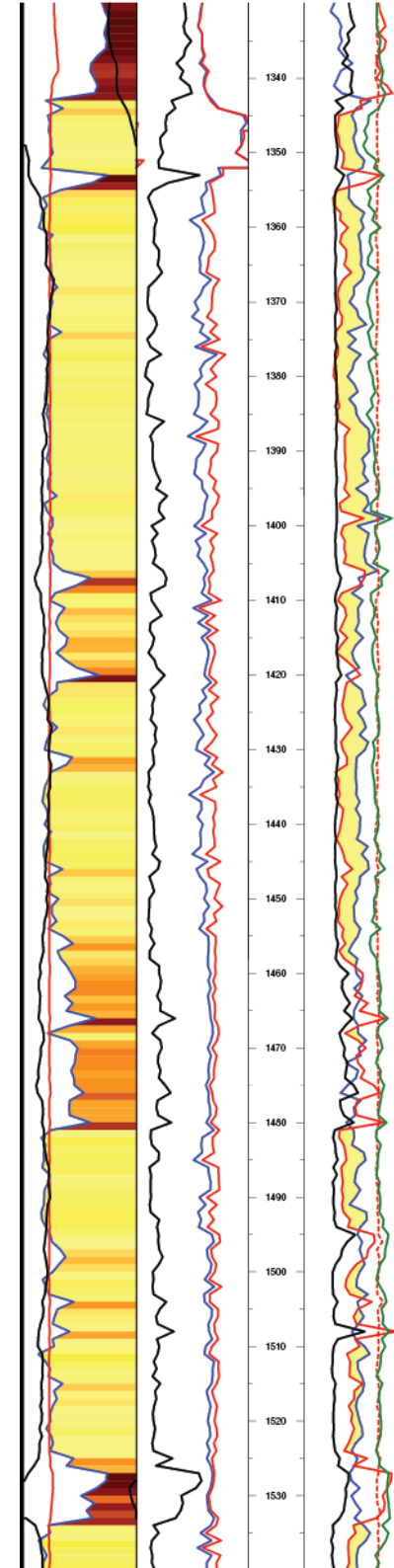




# Outlook & summary

Hector Gordon

David Maxwell



# Exploration and Development activities FY15 <sup>(1)</sup>

| Location        | Major Activities                                                                                                                                                                                                       |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cooper Basin    | <ul style="list-style-type: none"> <li>• 10-15 exploration wells</li> <li>• Approximately 5 development wells</li> <li>• Seismic acquisition</li> </ul>                                                                |
| Otway Basin     | <ul style="list-style-type: none"> <li>• Review results of Jolly-1 and Bungalow-1</li> <li>• Possible seismic and further drilling</li> </ul>                                                                          |
| Gippsland Basin | <ul style="list-style-type: none"> <li>• Analysis and completion of BMG development business case</li> </ul>                                                                                                           |
| Indonesia       | <ul style="list-style-type: none"> <li>• 2-3 development wells</li> <li>• Farm down Sumbagsel and Merangin III PSCs</li> <li>• 1 exploration well possible in Sumbagsel PSC and seismic in Merangin III PSC</li> </ul> |
| Tunisia         | <ul style="list-style-type: none"> <li>• Divestment process</li> </ul>                                                                                                                                                 |

# Indicative Growth Outlook

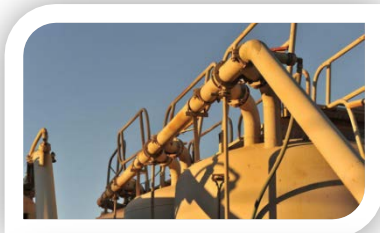
- Sustain and grow existing production and cashflow
- BMG – transformational impact
- Acquisitions & Exploration – significant growth





# Summary

## People, skills and financial capability to deliver further growth and value



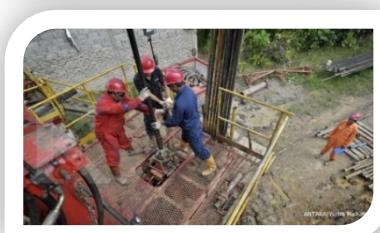
### Growing valuable oil business

- Low cost/high margin
- Cooper Basin western flank production, development & exploration
- South Sumatra production enhancement, development & exploration



### Building gas supply for Australia customers

- Gippsland conventional gas & liquids development
- Exploration & acquisitions focussed on rapid commercialisation e.g. Otway
- Long term production & cash flow
- Fits Cooper Energy skill set



### Company changer exploration exposure

- High potential at low cost to Cooper Energy e.g. South Sumatra farm-outs
- Otway & Gippsland
- Maintain capital discipline and return focus



### Value adding acquisitions & divestments

- Consistent with core areas and skills
- Tunisia portfolio divestment





# Forecast gas prices

Annual gas prices (\$/GJ, \$95 oil, 2013\$)

