

## Compliance statements



#### Disclaimer

This presentation contains forward looking statements that are subject to risk factors associated with oil, gas and related businesses. It is believed that the expectations reflected in these statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including, but not limited to: price fluctuations, actual demand, currency fluctuations, drilling and production results, reserve estimates, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory developments, economic and financial market conditions in various countries and regions, political risks, project delays or advancements, approvals and cost estimates.

EBITDA (earnings before interest, tax, depreciation, depletion, evaluation and impairment) and underlying profit are non-IFRS measures that are presented to provide an understanding of the performance of Beach's operations. They have not been subject to audit or review by Beach's external auditors but have been extracted from audited or reviewed financial statements. Underlying profit excludes the impacts of asset disposals and impairments, as well as items that are subject to significant variability from one period to the next. The non-IFRS financial information is unaudited however the numbers have been extracted from the audited financial statements.

All references to dollars, cents or \$ in this presentation are to Australian currency, unless otherwise stated. References to "Beach" may be references to Beach Energy Limited or its applicable subsidiaries. Unless otherwise noted, all references to reserves and resources figures are as at 30 June 2016 and represent Beach's share.

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## A compelling value proposition



# Highly profitable base business

- Turnaround in HY NPAT to \$103m, Underlying NPAT +1,023%¹
- US\$10 oil price increase = +\$50 million NPAT and
   +\$65 million operating cash flow

## Cost focused culture entrenched

- Western Flank operated field costs down 26% to <\$3/boe</li>
- Cooper Basin JV field operating costs down 16%
- Cash flow breakeven down 23% to US\$20/bbl

# Substantial liquidity; dividend payment

- \$148m net cash (+202%); \$648m available liquidity
- Interim dividend reinstated (1 cent per share fully franked)

# Increasing drill bit activity

- Up to 60 wells in FY17; 10 wells added for H2 FY17
- 88% success rate from 24 wells in H1 FY17;
   60% exploration success rate

# Refreshed exploration focus

- Targeting full replacement of produced reserves from existing operated acreage over next 3 years
- Birkhead oil discoveries encouraging for future activity

## Inorganic growth

- Progressing opportunities in a disciplined manner
- Actively assessing high impact exploration new ventures

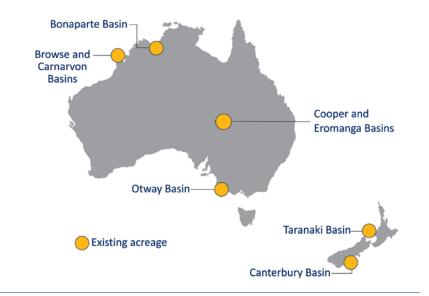
<sup>1.</sup> For a reconciliation of H1 FY17 net profit after tax to underlying net profit after tax, refer to Appendix

## Beach Energy



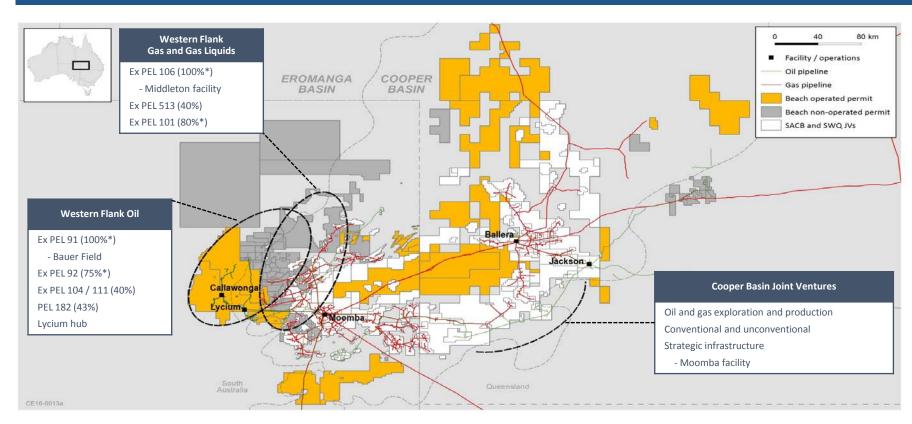
- Australia's largest onshore oil producer, with a major gas business
- Core operations in the Cooper and Eromanga basins (~7.9 million net acres)
- Owner of strategic infrastructure linking key energy markets
- FY17 production guidance: 10.3 10.7 MMboe
- Market capitalisation: ~\$1.3 billion¹
- Net cash of \$148 million; available liquidity of ~\$650 million
- Cash flow breakeven of US\$20/bbl

Cooper and Eromanga	Oil	Gas	Gas Liquids
Operated	✓	✓	✓
Non-operated	✓	✓	✓
H1 FY17 production	3.1 MMbbl	11.5 PJ (2.0 MMboe)	450 kboe



# Cooper Basin acreage



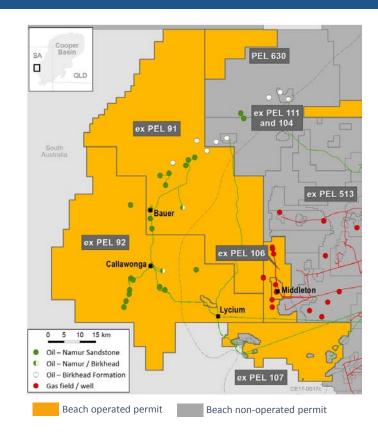


<sup>\*</sup> Denotes operatorship

## Western Flank core production



- Primary source of Beach oil production
  - H1 FY17 net production of 2.6 MMbbl
- Material contributor to Beach gas and gas liquids production
  - H1 FY17 net production of 550 kboe
  - Middleton compression project to be completed in Q3 FY17
- Operator and part owner of flowlines and pipelines linking fields to Moomba
  - Lycium to Moomba daily capacity >21,000 bopd



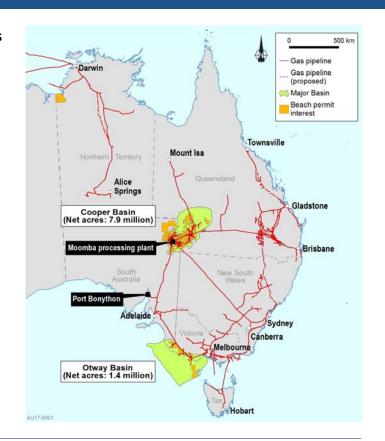
Western Flank Oil: Ex PEL 91: Beach 100%; ex PEL 92: Beach 75% and operator, Cooper Energy 25%; ex PEL 104 / 111: Beach 40%, Senex Energy 60% and operator; PEL 630: Beach farming into 50% operated interest with Bridgeport

Western Flank Gas and Gas Liquids: Ex PEL 106, 107: Beach 100%; ex PEL 513: Beach 40%, Santos 60% and operator

## Strategic Cooper Basin infrastructure



- Infrastructure ideally located to service southern, eastern and LNG markets
  - Beach ownership interest in Cooper Basin JV infrastructure: ~20%
- ~6,000 kilometres of flowlines into Moomba
- Moomba daily processing capacities:
  - 375 TJ gas (~70% utilised)1
  - 35 kbbl oil / condensate (~75% utilised)
  - 600 tonnes LPG (~30% utilised)
  - 48 kbbl daily flowline capacity (Moomba to Port Bonython)
- Gas storage capacity of ~75 PJ¹
- Moomba processing plant accessible for new discoveries



## Cooper Basin joint ventures<sup>1</sup>

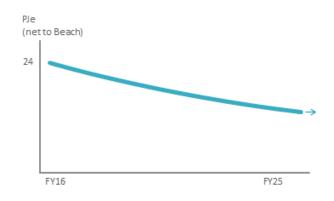


- Diverse Cooper Basin acreage position of ~26,800 km² (~6.6 million acres)
- Substantial gas processing infrastructure, connected to key energy markets
- Primary source of Beach gas production, and a material oil contributor
  - Net H1 FY17 gas / gas liquids production of 1.9 MMboe
  - Net H1 FY17 oil production of 375 kbbl
- Beach optionality to participate in drilling campaigns
- Joint venture focus on cost reductions and value optimisation
  - 16% field cost reduction achieved in H1 FY17
- Free cash flow of >\$50 million generated in H1 FY17<sup>2</sup>
  - Significant turnaround achieved since FY15

>50 years of Cooper Basin operations

>800 producing gas wells

Ongoing exploration, appraisal and development activity



Long-life, reliable gas and gas liquids production<sup>3</sup>

<sup>1.</sup> Ownership interests: Beach ~20%; Santos ~66% and operator; Origin ~14%

Operating cash flow less capital expenditure

Illustrative gas and gas liquids production net to Beach; based on current drilling outlook and ignores
future exploration success or increased drilling activity; conversion to MMboe at ~0.172 MMboe per PJ

# Delivering against four-pillar growth strategy



## **Optimise core in the Cooper Basin**



- ✓ Record HY production of 5.5 MMboe
- ✓ Three play-extending oil discoveries
- ✓ Operated drilling increased to 18 wells (+5)
- Significant operating cost reductions
- ✓ Sale of high-cost Qld oil assets; farm-in to prospective PEL 630

# ✓ HY operating



✓ Cash flow breakeven down 23% to US\$20/bbl

✓ Net cash up 202% to \$148m

**Maintain financial strength** 

- ✓ Available liquidity of \$648m
- Interim dividend reinstated (1 cps fully franked)

## **Build an east coast gas business**



- ✓ Two discoveries from first two operated wells
- Improved margins from new commercial arrangements for Western Flank gas
- ✓ Surplus gas expected for sale in H2 FY17
- ✓ Expanded FY18 drilling program under review

## Pursue other growth opportunities



- ✓ Multiple opportunities under review
- Strict capital allocation process driving decisions
- Substantial and increasing liquidity to pursue next phase of growth





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Sales Revenue \$344 million



NPAT \$103 million



**EBITDA \$224 million** 



Operating Cash Flow \$154 million



Net Cash \$148 million



Interim Dividend

1 cent fully franked

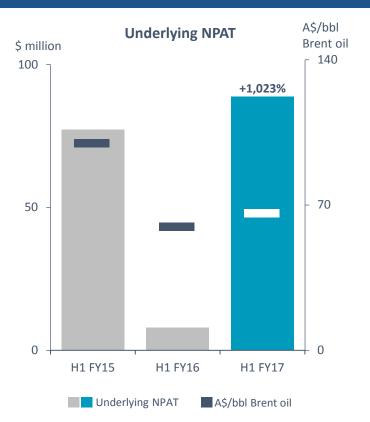


## Turnaround in Underlying NPAT

Robust business model and disciplined cost focus



- Significant increase in NPAT to \$103 million and Underlying NPAT to \$89 million (+1,023%)<sup>1</sup>
- Gross Profit improvement of 309% driving NPAT performance
- Results benefiting from robust business model
  - Strong operating performance Production up 22%
  - Leverage to higher oil prices Modest A\$ oil price rise of 9%
  - Reduced field operating costs 26% WF operated field cost reduction
  - Lean headcount and overheads Headcount reduced by a further 6%
  - Benefits of portfolio rationalisation High-cost Qld oil assets sold
- Underlying NPAT adjustments mainly:
  - Profit on sale of Egypt and Kenmore/Bodalla assets
  - Impairment of exploration assets



<sup>1.</sup> For a reconciliation of H1 FY17 net profit after tax to underlying net profit after tax, refer to Appendix

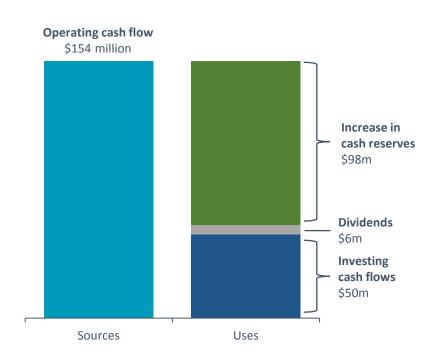
## Robust funding position

Generating free cash flow while investing for growth



- Operating cash flow up 19% to \$154 million
- Net cash up 202% to \$148 million; \$648 million available liquidity
  - \$298 million cash reserves; \$350 million undrawn facilities
- Strengthened financial position due to:
  - Record production and sales volumes
  - Cost cutting and operating efficiencies
  - Reduced and focused capital expenditure of \$72 million (H1 FY16: \$122 million)
- No cash tax in FY17; expecting cash tax in FY18
  - Unbooked deferred tax assets of \$159 million as at 30 June 2016 to be reassessed at 30 June 2017
- Disciplined deployment of free cash flow to fund growth
  - Full year FY17 capital expenditure guidance of \$170 – 185 million

#### H1 FY17 Cash Sources and Uses







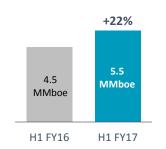
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## H1 FY17 operational highlights



- Record half year production and sales volumes
- 88% drilling success rate from 24 wells
- Oil discoveries in under-explored play fairways
- Beach Western Flank field costs down 26% to \$2.70/boe
- Cooper Basin JV field operating costs down 16%
- Incremental production from five artificial lift installations
- Bauer facility expansion and Middleton compression commissioning in Q3 FY17
- Improved FY17 full year guidance
  - ↑ production to 10.3 10.7 MMboe
  - ↓ capital expenditure to \$170 185m

#### **Record Production**



#### **Record Sales Volumes**





Variable speed beam pump installation in ex PEL 91

#### **H1 FY17**

- 5 artificial lift installations
- \$4.5 million total cost
- >800 bopd initial incremental oil production
- <4 month payback</li>

### Production

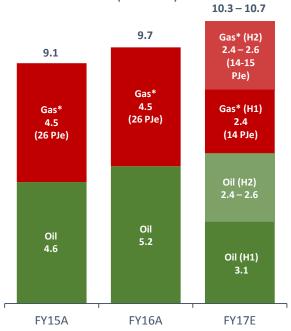
## Record half year production and increased full year guidance



#### Record half year production

- Up 22% to 5.5 MMboe
- 56% oil; 44% gas and gas liquids
- Operated production now >50% of total production (H1 FY16: 36%)
- Full benefits of Drillsearch merger realised
  - Ex PEL 91 oil production up 122% to 2.0 MMbbl
  - Ex 106 gas and gas liquids production up 207% to 0.5 MMbbl
- Incremental production from successful optimisation projects and new wells online
  - >800 bopd initial incremental oil production from five artificial lift installations
- Full year production guidance increased to 10.3 10.7 MMboe (previously 9.7 – 10.3 MMboe)

# **Actual and Forecast Production** (MMboe) 9.7 Gas\* (H2)

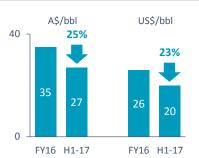


<sup>\*</sup> Gas and gas liquids



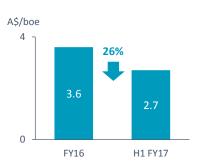
#### Cash flow breakeven<sup>1</sup>

- Reduced fixed expenditure
- Operating and cost efficiencies



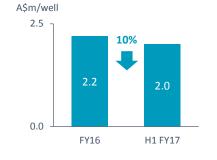
# Operated field costs - Western Flank<sup>3</sup>

- Renegotiated contracts
- Reduced reliance on contractors



# Drilling costs<sup>2</sup>

- New rig contract
- Fit-for-purpose rig



#### Headcount<sup>4</sup>

- Lean workforce
- One third reduction since Drillsearch merger



2. Average cost to drill, case and complete

- 3. Field operating costs for ex PEL 91, 92 and 106; excludes tariffs, tolls and royalties
- Excludes field contractors

Average annual oil price whereby cash flows from operating activities before tax equate to cash flows from investing
activities less discretionary expenditure and acquired cash; figures compare six month period to 31 December 2016 (H1 FY17)
with 12 month period to 30 June 2016 (FY16)

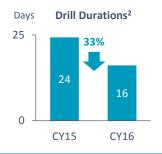
## Cooper Basin JV cost savings

## Broad ranging initiatives now evident in results

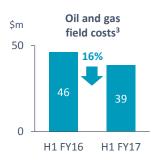


#### Well cost efficiencies





## Operating efficiencies





- Full review and refinement of service scopes
- Renegotiated contractor arrangements and rates
- Reduced staff and contractor workforce
- Reduced rig mobilisation / non-productive time
- 'Challenging the norm'
- Additional H2 FY17 activity proposed by operator

<sup>1.</sup> Average gas development well cost to drill, frac, complete and connect

<sup>2.</sup> Average days from spud to rig release, plus average rig move days

<sup>3.</sup> Field operating costs for Cooper Basin JV oil and gas production; excludes redundancy costs and non-recurring items





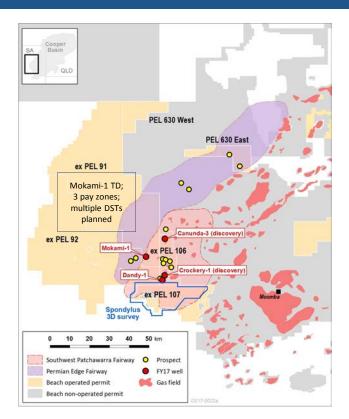
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## Gas exploration

## Significant untapped exploration potential



- Extensive Southwest Patchawarra (SWP) and Permian Edge (PE) play fairways
  - ~1,300 km<sup>2</sup> under-explored PE fairway
- Two SWP discoveries in H1 FY17; two H2 FY17 exploration wells to be drilled
  - Success using refined isopachous mapping techniques
- 340 km<sup>2</sup> Spondylus 3D survey to enhance southern SWP prospect portfolio
- High impact prospects under evaluation in PE play fairway
  - PEL 630 farm-in complements portfolio; full 3D coverage
- Several prospects identified for expanded FY18 drilling campaign



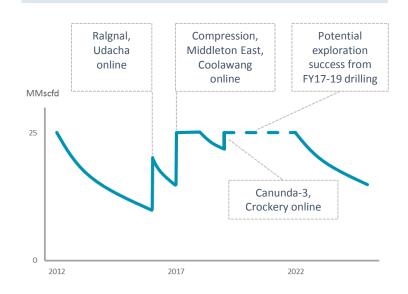
# Gas appraisal and development

Middleton compression to sustain production



- Middleton compression project to be completed by end Q3 FY17
- Will enable 25 MMscfd raw gas capacity to be reached and maintained
  - ~20 MMscfd net gas / liquids production
  - ~25-35 bbl/MMscf average liquids content
- Recent discoveries to support peak capacity
  - Middleton Fast-1 flowed at 6.8 MMscfd<sup>1</sup>
  - Canunda-3 expected online rate >3 MMscfd with high liquids content (>150 bbl/MMscf)<sup>2</sup>
  - Crockery-1 estimated flow rate of 3-8 MMscfd<sup>3</sup>
- Cooper Basin JV drilling programs ongoing
  - Activity close to existing infrastructure to enable quick tie-ins

## Optimising production infrastructure<sup>4</sup>



Extended production test over 2,673 – 2,679 metre interval on 64/64" choke and flowing at 446 psig

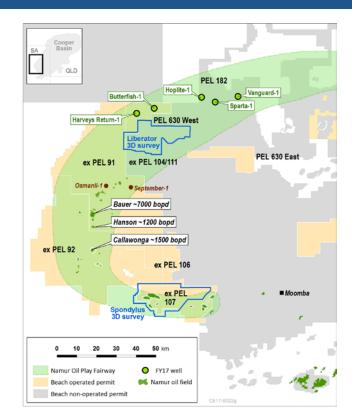
<sup>2.</sup> Based on results from two drill stem tests

<sup>3.</sup> Drill stem test failed due to tool blockage; 40 MMscf entered drill in 8 minutes prior to blockage; flow rate is indicative only

# Oil exploration — Namur play fairway Long-term running room from proven play fairway



- Extensive and proven Namur play fairway
  - ~6,500 km<sup>2</sup> fairway
- Five exploration wells in H2 FY17
- PEL 630 farm-in complements portfolio
  - Two wells in Q4 FY17 to test northwest extension of Namur play
- PEL 182 wells to test northern part of Namur play fairway
- 295 km<sup>2</sup> Liberator 3D seismic survey to augment extensive existing coverage

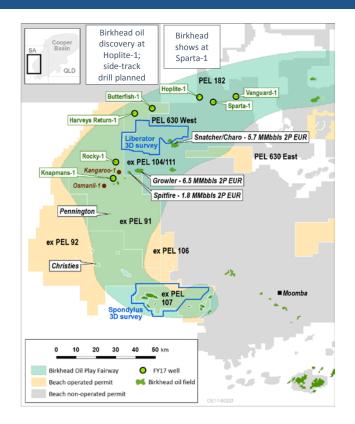


## Oil exploration – Birkhead play fairway

Extensive, under-developed play fairway



- Extensive and under-developed Birkhead play fairway
  - ~7,500 km<sup>2</sup> fairway
- Two primary target exploration wells and five secondary target wells in H2 FY17
- Kangaroo-1 follow-up wells in ex PEL 91 to calibrate predictive reservoir models
  - Successful outcomes to support horizontal drilling pilot program
  - Potential roll-out of horizontal Birkhead drilling in FY18
- Birkhead oil discovery at Hoplite-1 supports potential fairway extension
- PEL 630 farm-in complements portfolio (secondary Birkhead targets)

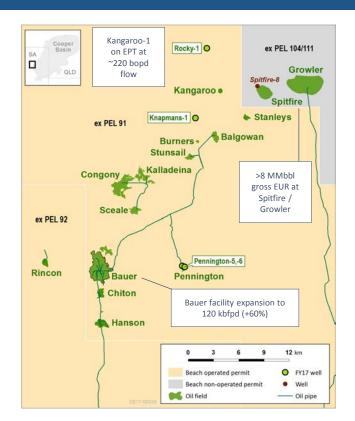


# Oil appraisal and development

### Targeting new reserves from existing fields



- Untapped reserve potential in existing fields
- Horizontal drilling pilots under review for the McKinlay reservoir
  - Second stage of Bauer Field development
  - Under-developed formation overlaying the Namur Sandstone
- Kangaroo-1 discovery well on extended test; Birkhead horizontal drilling under review
- Pennington infill drilling to accelerate production; additional opportunities under review
- Bauer facility expansion to be completed in Q3 FY17 to optimise production capabilities
  - 60% increase in fluids handling capacity to 120,000 bfpd
- Spitfire-8 to be brought online in Q3 FY17
- Ongoing artificial lift installations







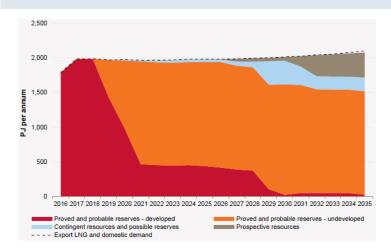
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## East coast gas opportunity

## Additional drilling required to address market imbalances



#### East coast gas supply and demand<sup>1</sup>



- East coast gas imbalance now clearly evident
- Energy security and gas as 'transition fuel' increasingly topical
- LNG demand / gas shortage fundamentals unchanged

#### Beach delivering on gas strategy

## ✓ Growing operated gas business

- Improved commercial arrangements
- Compression to sustain maximum production
- Surplus gas for spot market in H2 FY17
- Systematic approach to exploring proven and frontier play fairways
- Expanded FY18 drilling program under review

## ✓ Active Cooper Basin JV exploration

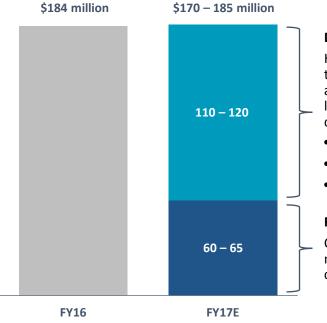
- Six-well campaign to commence in Queensland
- 1,200km<sup>2</sup> Snowball 3D survey mapping
- Beach to recommend exploration targets to guide capital and returns
- Beach to only participate in drilling which provides adequate returns

Source: AEMO. March 2016

## Capital expenditure guidance

Expanded drilling program to be delivered at a lower overall cost





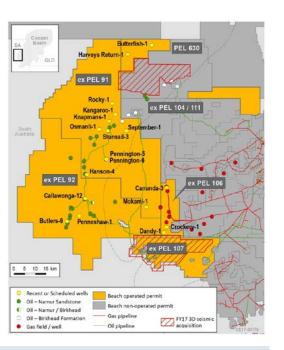
#### **Discretionary expenditure**

High-graded projects; NPV positive; nearterm line of sight to financial return; capital allocation requirements met; deferrable at lower oil prices; includes exploration and development activities

- ~45% allocated to Western Flank oil
- ~25% allocation to Western Flank gas
- ~30% allocated to Cooper Basin JV

#### **Fixed expenditure**

Committed expenditure for asset maintenance, permit fees and tenement commitments



Two thirds of discretionary expenditure allocated to projects with >30% IRR



Strategy	<ul> <li>Clearly defined growth strategy underpinned by robust core base business</li> <li>Demonstrated progress via Drillsearch merger and farm-in activity</li> <li>Focused on opportunities with similar risk profile to base business</li> </ul>
Approach	<ul> <li>Strict, revised capital allocation framework for all discretionary expenditure</li> <li>Strict, revised technical and commercial staged due diligence processes</li> <li>Strict financial return hurdles must be met; clear path to value</li> </ul>
Progress	<ul> <li>Multiple opportunities under review</li> <li>A number of opportunities already dismissed due to inadequate return vs risk</li> <li>Disciplined and orderly approach to opportunities</li> </ul>
Timing	<ul> <li>Core business performing well with strengthening financial position</li> <li>No timeframe or executive incentives in place to complete transactions</li> <li>Actively assessing and prepared to wait for the right opportunities</li> </ul>

# A compelling value proposition



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## H1 FY17 significant items



### Reconciliation of Net Profit After Tax to Underlying Net Profit After Tax

Comparison of underlying profit (\$m)	H1 FY16	H1 FY17	Movement from PCP
Net profit / (loss) after tax	(600.1)	103.4	703.5
Remove merger costs	1.5	-	(1.5)
Remove asset sales	_	(52.9)	(52.9)
Remove unrealised hedging movements	(2.1)	5.1	7.2
Remove provision for non-recovery of international taxes	7.5	-	(7.5)
Remove impairment of assets	634.6	33.1	(601.5)
Tax impact of above changes	(33.5)	-	33.5
Underlying net profit after tax	7.9	88.7	80.8

Underlying results in this report are categorised as non-IFRS financial information provided to assist readers to better understand the financial performance of the underlying operating business. They have not been subject to audit or review by Beach's external auditors. Following a change to the hedging policy during the period to include the use of collars and the increased volatility on the derivative valuations associated with this, Underlying results are now being adjusted for unrealised hedging gains/(losses) with the prior year comparative restated to be on a consistent basis with the table above providing a reconciliation of this information to the Half Year Financial Report.

# FY17 capital expenditure program



Capital Expenditure	\$ million	Wells		H2 FY17 Activities
		Exp.	App/Dev	
Western Flank Operated Oil				
Ex PEL 91	35 – 40	6	4	<ul> <li>Bauer facility expansion</li> <li>Kangaroo production facility</li> <li>Birkhead (2) and Patchawarra (1) exploration wells</li> <li>Two Pennington development wells</li> </ul>
Ex PEL 92	5 – 7	1	2	<ul> <li>Facilities upgrades and artificial lift installations</li> </ul>
PEL 630	5	2	-	Two Namur oil exploration wells
Fixed Expenditure	10	-	-	
Western Flank Non-operated Oil				
Ex PEL 104 / 111	5 – 7	1	1	<ul><li> Two-well drilling program</li><li> 3D seismic data interpretation</li></ul>
Fixed Expenditure	10	Up to 4	-	<ul><li>Up to three PEL 182 exploration wells</li><li>PEL 87 exploration well</li></ul>
Western Flank Gas				
Ex PEL 106 / 107	25 – 30	2	1	<ul><li>Middleton compression</li><li>Three-well drilling program</li></ul>
Fixed Expenditure	10	-	-	
Cooper Basin Joint Ventures				
Discretionary: Oil and Gas	35 – 40	Up to 2	Up to 34	Expanded drilling program
Fixed: Oil and Gas	25	-	-	
Other				
	Up to 5	-	-	
Total	170 – 185	Up to 18	Up to 42	

# FY17 operated drilling program increased to 18 wells (+5)



Permit	Well	Timing	Target	Rationale	Result <sup>1</sup>
	Hanson-4	Q1	Namur	Development well to support facility expansion	✓ Success: C&S
	Stunsail-3	Q1	Namur	Development well; part of low cost, full field development plan	✓ Success: C&S
	Kangaroo-1	Q2	Birkhead	De-risk Birkhead stratigraphic oil play on Western Flank	✓ Success: C&S
	September-1	Q2 Namur • Near-field exploration on proven play trend		Near-field exploration on proven play trend	✓ Success: C&S
Ex PEL 91	Osmanli-1	Q2	Namur	Near-field exploration on proven play trend	✓ Success: C&S
EX PEL 91		Q3	Patchawarra	Extend Patchawarra gas / condensate play toward west	✓ Discovery
	Pennington-5	5 Q3 Namur • Development well to accelerate production		Development well to accelerate production	
	Pennington-6	Q4	Namur	Development well to accelerate production	
	Knapmans-1	Q4	Birkhead	Kangaroo-1 follow-up well; calibrate Birkhead reservoir models	
	Rocky-1	Q4	Birkhead	Kangaroo-1 follow-up well; calibrate Birkhead reservoir models	
	Callawonga-12	Q1	Namur	Development well; upside on northeast flank	✓ Success: C&S
x PEL 92	Penneshaw-1	Q2	Namur	Near-field exploration on proven play trend	• P&A
	Butlers-9	Q2	Namur	Appraisal well to test northwest extension of field	• P&A
	Canunda-3	Q2	Patchawarra	Appraisal well to test extension of field	✓ Success: C&S
Ex PEL 106	Crockery-1	Q3	Patchawarra	Near-field exploration on proven play trend	✓ Success: C&S
	Dandy-1	Q3	Patchawarra	Near-field exploration well to test southern extension of field	• P&A
NEL 620	Butterfish-1	Q4	Namur	Exploration well to test northwest extension of Namur play	
PEL 630 Harveys-1		Q4	Namur	Exploration well to test northwest extension of Namur play	

<sup>1.</sup> C&S: Cased and suspended as a future producer; P&A: Plugged and abandoned





#### **BEACH ENERGY LIMITED**

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