



# Quarterly Production Report

For period ending 30 June 2016

Comparative performance at a glance – Origin’s total proportional interests			
<b>Previous Quarter Comparison</b>	<b>June 2016</b>	<b>March 2016</b>	<b>Change %</b>
Production (PJe)	68.4	60.9	12
Sales (PJe)	67.3	60.1	12
Revenue (A\$m) <sup>1</sup>	326.2	316.4	3
<b>Prior Corresponding Quarter Comparison</b>	<b>June 2016</b>	<b>June 2015</b>	<b>Change %</b>
Production (PJe)	68.4	42.3	61
Sales (PJe)	67.3	42.7	58
Revenue (A\$m) <sup>1</sup>	326.2	226.3	44
<b>Year on Year Comparison</b>	<b>Jul - Jun 2016</b>	<b>Jul – Jun 2015</b>	<b>Change %</b>
Production (PJe)	231.5	147.6	57
Sales (PJe)	228.3	154.3	48
Revenue (A\$m) <sup>1</sup>	1,079.3	937.4	15

Note: Information presented in the table above and throughout this report relates only to hydrocarbon exploration and production activities undertaken by Origin Energy Limited (“Origin”), its subsidiaries and the incorporated joint ventures in which it has interests. The report does not cover other business activities of Origin such as electricity generation, or energy retailing.

## Highlights

- Annual production has increased by 57% and sales revenue by 15% compared to prior year primarily attributable to the commencement of Australia Pacific LNG (APLNG) Train 1
- Production increased by 12% compared with the March 2016 quarter, primarily a result of increased LNG production and increased production at Otway following a planned shutdown in the previous quarter
- Revenue increased by 3% compared with the March 2016 quarter, reflecting higher production, partly offset by lower average LNG and natural gas prices
- 16 LNG cargoes were loaded and shipped from the APLNG facility during the quarter, including the first LNG shipment to The Kansai Electric Power Company (Kansai Electric). Subsequent to the end of the quarter, a further five cargoes were loaded and shipped
- APLNG has loaded and shipped a total of 32 cargoes to date
- Construction of the Australia Pacific LNG Train 2 facility continues to progress. In July 2016, first fire for the last 2 of 7 Gas Turbine Generators (GTGs) occurred
- APLNG Train 1 operational lenders’ test commenced and the release of the first tranche of shareholder guarantees is on track for the second quarter of the 2017 financial year.

## Production and Sales

### June Quarter 2016 compared with March Quarter 2016

Production of 68.4 PJe in the June quarter 2016 was 7.5 PJe or 12% higher than the March quarter 2016. This is primarily attributable to higher production from APLNG (4.6 PJe) reflecting increased LNG production, and Otway (2.6 PJe) due to higher plant availability following a planned shutdown in the March quarter 2016.

<sup>1</sup> Revenue includes capitalised revenue related to APLNG ramp gas and LNG sales and Gain/(Loss) on forward sales and hedging. Further details are included in table 1.2 and 1.3.2.

Sales revenue increased 3% from the March quarter 2016 reflecting higher production partly offset by lower average realised LNG and natural gas prices.

### **June Quarter 2016 compared with June Quarter 2015**

Production of 68.4 PJe in the June quarter 2016 was 26.1 PJe or 61% higher than the comparable quarter in 2015. This is primarily attributable to higher production from APLNG (27.6 PJe) reflecting the commencement of LNG production, and BassGas (0.7 PJe) due to the Yolla 5 and Yolla 6 wells coming on line, partly offset by lower production at Otway (-2.0 PJe) due to lower well deliverability, natural field decline and lower plant availability.

Sales revenue was 44% higher than the June quarter 2015 reflecting higher production partly offset by lower average realised commodity prices.

### **Year to 30 June 2016 compared with Year to 30 June 2015**

Annual production of 231.5 PJe was 83.9 PJe or 57% higher than the prior year. This is primarily attributable to higher production from APLNG (91.6 PJe) reflecting the commencement of LNG production, and BassGas (3.7 PJe) due to the Yolla 5 and Yolla 6 wells coming on line, partly offset by lower production at Otway (-9.5 PJe) due to lower well deliverability, a planned compliance shutdown and natural field decline.

Sales revenue increased 15% year on year reflecting higher production, partly offset by lower average realised commodity prices.

## 1. PRODUCTION, SALES AND REVENUE

### 1.1 Production by product and area (including interest in APLNG)

Natural Gas and Ethane	Unit	This Quarter	Previous Quarter	% Change	June Quarter 2015	YTD 2015/16	YTD 2014/15
<b>Natural Gas</b>	PJ						
APLNG domestic <sup>2</sup>		25.3	26.4	(4)	21.8	111.2	65.3
SA Cooper & SWQ		2.9	2.9	2	3.1	11.8	12.4
Otway Basin (offshore)		5.3	3.1	72	7.0	20.8	28.9
Bass Basin		2.0	1.9	3	1.4	7.8	4.9
Perth Basin		0.8	0.8	-	0.7	3.8	4.0
Taranaki Basin (onshore)		0.1	0.1	-	0.2	0.6	0.7
Taranaki Basin (Kupe)		3.4	3.1	11	3.3	12.0	12.2
<b>Ethane</b>	PJ						
SA Cooper & SWQ		0.5	0.4	17	0.4	1.7	1.6
<b>Total Production</b>		40.3	38.7	4	38.0	169.7	130.1
<b>Total Sales Volume</b>		41.2	38.4	7	36.0	168.2	128.3
<b>Total Commodity Revenue</b>	<b>\$M</b>	129.0	121.9	6	129.8	541.7	529.2
<b>Average Gas Price – Total</b>	<b>\$/GJ</b>	3.13	3.18	(1)	3.61	3.22	4.12
Average Gas Price – APLNG		1.66	1.95	(15)	2.38	2.03	3.00
Average Gas Price – ex APLNG		5.48	5.67	(3)	5.33	5.40	5.29

Liquefied Natural Gas (LNG)	Unit	This Quarter	Previous Quarter	% Change	June Quarter 2015	YTD 2015/16	YTD 2014/15
<b>LNG</b>	Kt						
<b>Total Production</b>		394.6	277.6	42	-	689.5	-
<b>Total Sales Volume</b>		369.6	289.5	28	-	659.1	-
<b>Total Commodity Revenue<sup>3</sup></b>	<b>\$M</b>	136.3	129.4	5	-	265.7	-
<b>Average LNG Price</b>	<b>\$/t</b>	368	447	(18)	-	403	-
<b>Average LNG Price</b>	<b>US\$/t</b>	275	324	(15)	-	296.81	-
<b>Average LNG Price</b>	<b>US\$/mmbtu</b>	5.23	6.17	(15)	-	5.64	-

Crude Oil	Unit	This Quarter	Previous Quarter	% Change	June Quarter 2015	YTD 2015/16	YTD 2014/15
<b>Crude Oil</b>	<b>kbbls</b>						
SA Cooper & SWQ		76.4	78.0	(2)	67.0	287.0	289.8
Taranaki Basin (onshore)		18.2	18.7	(3)	12.4	64.8	39.8
<b>Total Production</b>		94.6	96.7	(2)	79.4	351.8	329.6
<b>Total Sales Volume</b>		327.0	390.4	(16)	461.3	1629.0	1,754.2
<b>Total Commodity Revenue</b>	<b>\$M</b>	17.7	21.0	(16)	37.7	98.8	160.9
<b>Average Crude Price</b>	<b>\$/bbl</b>	54	54	1	82	61	92

<sup>2</sup> Refers to production to meet domestic supply requirements and excludes production directed towards the LNG facility on Curtis Island.

<sup>3</sup> During construction of the APLNG export project, LNG Commodity Revenue has been capitalised. LNG Commodity Revenue for APLNG Train 1 will be recognised in the income statement from 1 March 2016. Revenue disclosed includes both capitalised and income statement amounts.

Condensate/Naphtha	Unit	This Quarter	Previous Quarter	% Change	June Quarter 2015	YTD 2015/16	YTD 2014/15
<b>Condensate/Naphtha</b>	<b>kbbls</b>						
APLNG		0.2	0.2	30	0.1	0.5	0.7
SA Cooper & SWQ		46.5	52.0	(11)	50.0	197.4	209.4
Otway Basin (offshore)		69.7	40.0	74	89.1	268.2	383.7
Bass Basin		64.7	63.0	3	50.0	260.4	175.3
Perth Basin		0.5	0.7	(35)	0.5	2.8	3.1
Taranaki Basin (Kupe)		176.8	178.0	(1)	203.9	689.1	804.2
<b>Total Production</b>		<b>358.4</b>	<b>333.9</b>	<b>7</b>	<b>393.5</b>	<b>1,418.4</b>	<b>1,576.4</b>
<b>Total Sales Volume</b>		<b>413.7</b>	<b>356.8</b>	<b>16</b>	<b>400.5</b>	<b>1,402.5</b>	<b>1,580.5</b>
<b>Total Commodity Revenue</b>	<b>\$M</b>	<b>22.6</b>	<b>15.8</b>	<b>42</b>	<b>29.3</b>	<b>73.8</b>	<b>122.7</b>
<b>Average Condensate Price</b>	<b>\$/bbl</b>	<b>55</b>	<b>44</b>	<b>23</b>	<b>73</b>	<b>53</b>	<b>78</b>

LPG	Unit	This Quarter	Previous Quarter	% Change	June Quarter 2015	YTD 2015/16	YTD 2014/15
<b>LPG</b>	<b>Kt</b>						
SA Cooper & SWQ		5.7	6.1	(6)	5.8	24.8	25.4
Otway Basin (offshore)		9.5	4.9	93	11.8	34.6	49.8
Bass Basin		5.8	5.6	4	4.3	23.1	15.0
Taranaki Basin (onshore)		0.2	0.3	(10)	0.3	1.0	0.8
Taranaki Basin (Kupe)		9.5	13.0	(27)	13.7	45.3	51.3
<b>Total Production</b>		<b>30.8</b>	<b>29.9</b>	<b>3</b>	<b>35.8</b>	<b>128.7</b>	<b>142.3</b>
<b>Total Sales Volume</b>		<b>31.9</b>	<b>27.0</b>	<b>18</b>	<b>38.9</b>	<b>127.1</b>	<b>146.8</b>
<b>Total Commodity Revenue</b>	<b>\$M</b>	<b>13.4</b>	<b>11.3</b>	<b>19</b>	<b>18.8</b>	<b>56.2</b>	<b>87.9</b>
<b>Average LPG Price</b>	<b>\$/t</b>	<b>420</b>	<b>417</b>	<b>1</b>	<b>484</b>	<b>443</b>	<b>599</b>

## 1.2 Production by basin (including interest in APLNG)

Production by Basin (All products, PJe)	Unit	This Quarter	Previous Quarter	% Change	June Quarter 2015	YTD 2015/16	YTD 2014/15
<b>Production by Basin</b>	PJe						
APLNG <sup>4</sup>		49.4	44.8	10	21.8	156.9	65.3
SA Cooper & SWQ		4.4	4.3	2	4.5	17.5	18.1
Otway Basin (offshore)		6.1	3.5	74	8.1	24.0	33.4
Bass Basin		2.6	2.5	3	1.9	10.3	6.6
Perth Basin		0.8	0.9	(6)	0.7	3.8	4.0
Taranaki Basin (onshore)		0.2	0.3	(6)	0.3	1.0	0.9
Taranaki Basin (Kupe)		4.8	4.7	3	5.1	17.9	19.1
<b>Total Production Volume</b>		68.4	60.9	12	42.3	231.5	147.6
<b>Total Sales Volume</b>		67.3	60.1	12	42.7	228.3	154.3
<b>Total Commodity Revenue</b>	\$M	318.9	299.4	7	215.6	1,036.2	900.7
Gain / (Loss) on forward sale <sup>5</sup> and hedging	\$M	7.3	17.0	(57)	10.7	43.1	36.7
<b>Total Revenue</b>	\$M	326.2	316.4	3	226.3	1,079.3	937.4
<b>Average Commodity Price</b>	\$/GJe	4.84	5.26	(8)	5.30	4.73	6.07

## 1.3 Production, Sales Volumes and Revenue Summaries

### 1.3.1 Origin excluding interest in APLNG

Total All Products	Unit	This Quarter	Previous Quarter	% Change	June Quarter 2015	YTD 2015/16	YTD 2014/15
Production Volume	PJe	19.0	16.1	17	20.5	74.6	82.2
Sales Volume	PJe	21.6	18.2	19	21.8	82.6	88.9
Sales Revenue	\$M	140.7	119.9	17	165.8	548.8	704.1
Gain / (loss) – forward sale <sup>5</sup> and hedging	\$M	7.3	17.0	(57)	10.7	43.1	36.7
<b>Total Revenue</b>	\$M	148.0	136.9	8	176.5	591.8	740.8
<b>Average Commodity Price</b>	\$/GJe	6.85	7.52	(9)	8.10	7.17	8.33

### 1.3.2 Origin's interest in APLNG

Total All Products	Unit	This Quarter	Previous Quarter	% Change	June Quarter 2015	YTD 2015/16	YTD 2014/15
Production APLNG 100%	PJe	131.8	119.4	10	58.2	418.4	174.2
<u>Origin's 37.5% interest</u>							
Production (all products)	PJe	49.4	44.8	10	21.8	156.9	65.3
Sales (all products)	PJe	45.7	41.9	9	20.9	145.7	65.4
Sales Revenue <sup>6</sup>		178.2	179.5	(1)	49.8	487.4	196.6
<b>Average Commodity Price</b>	\$/GJe	3.90	4.28	(9)	2.38	3.35	3.01

<sup>4</sup> Refers to domestic production as well as production directed towards the LNG facility on Curtis Island (including liquefaction gas).

<sup>5</sup> Refers to Origin's oil and condensate forward sale agreements. In FY2013 Origin entered into agreements to sell majority of its future oil and condensate over a 72 month period commencing 1 July 2015. The fixed price of US\$62.40/bbl represents the forward oil price at the time of US\$89/bbl, discounted to reflect the receipt of the proceeds upfront. Upon entry into the agreements, Origin received A\$482 million.

<sup>6</sup> Includes capitalised revenue related to APLNG ramp gas volumes and LNG sales.

## 1.4 Internal and External Purchase and Sales Summary

### 1.4.1 Internal and External Sales (Origin excluding interest in APLNG)

Internal & External Sales Volumes	Unit	This Quarter	Previous Quarter	% Change	June Quarter 2015	YTD 2015/16	YTD 2014/15
<b>Sales Volume</b>	PJe						
Internal		7.4	5.7	28	5.9	25.3	22.9
External		14.3	12.5	14	15.9	57.3	66.0
<b>Total</b>		21.6	18.2	19	21.8	82.6	88.9

### 1.4.2 External Purchases

Product Purchases included in above sales	Unit	This Quarter	Previous Quarter	% Change	June Quarter 2015	YTD 2015/16	YTD 2014/15
Origin (excluding interest in APLNG)	PJe	1.7	2.0	(16)	1.8	7.7	8.6
Origin's 37.5% interest in APLNG	PJe	2.0	1.6	22	0.1	5.3	3.2
<b>Total</b>	PJe	3.7	3.6	1	1.9	13.0	11.8

## 2. DEVELOPMENT AND EXPLORATION OPERATIONS

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### 2.1 Origin's interests held through Australia Pacific LNG (APLNG)

#### 2.1.1 Operations Update

APLNG production (100%) was 131.8 PJe during the quarter, an increase of 10% compared to the March 2016 quarter (119.4 PJe), due to the ramp up of LNG production (64.3 PJe including liquefaction gas).

During the quarter, production from the operated fields was increased to meet LNG train demand. Average production from operated assets increased to 1,047 TJ/d in the June 2016 quarter from 917 TJ/d in the March 2016 quarter (APLNG share), reflecting higher rates of production from Combabula/Reedy Creek (36 TJ/d increase), Spring Gully (31 TJ/day increase), Condabri (29 TJ/d increase), Orana (19 TJ/day increase) and Talinga (16 TJ/day increase).

Average production from non-operated assets increased to 401 TJ/d in the June 2016 quarter from 396 TJ/d in the March 2016 quarter (APLNG share). Production from QGC operated fields increased to 323 TJ/d from 312 TJ/d reflecting higher production from Kenya and Kenya East due to continued dewatering of existing wells and commissioning of incremental wells. Production from the GLNG operated Fairview field decreased from 84 TJ/d to 78 TJ/d due to Operator led field turndown for reservoir pressure data gathering ahead of GLNG Train 2 being brought online.

The Train 1 LNG facility continues to perform to expectations, with daily production rates having achieved and exceeded design nameplate capacity. During the quarter, a total of 16 produced LNG cargoes were loaded and shipped from the Australia Pacific LNG facility on Curtis Island, including to Sinopec and Kansai in accordance with their respective long term Sales and Purchase Agreements. APLNG has loaded and shipped a further five cargoes subsequent to the end of the quarter and a total of 32 cargoes to date.

APLNG participated in the drilling of 50 development wells during the quarter (all operated). Drilling activity was lower than the previous quarter due to the resequencing of drilling activities into both the March 2016 quarter and the September 2016 quarter. Origin expects an increase in drilling activity to approximately 300 wells in financial year 2017, consistent with the drilling rate in the first half of financial year 2016.

There were no operated or non-operated exploration or appraisal wells drilled in the quarter.

There were 20 development wells commissioned in QGC non-operated fields in the quarter (17 in ATP620 and three in ATP648).

## APLNG Operated Production Wells<sup>7</sup>

				Development Wells <sup>8</sup>		
		Max avg well deliverability <sup>9</sup>	Avg daily production (APLNG share)		Wells drilled	Wells commissioned
Bowen	Spring Gully	1.0 TJ/d	187.5 TJ/d	This Quarter	14	1
				YTD 2015/16	40	17
				Total to Date	359	306 <sup>1011</sup>
Surat	Talinga	2.1 TJ/d	112.5 TJ/d	This Quarter	-	-
				YTD 2015/16	18	31
				Total to Date	148	132
	Orana	2.4 TJ/d	161.2 TJ/d	This Quarter	9	-
				YTD 2015/16	9	19
				Total to Date	151	137
	Condabri	1.0 TJ/d	277.8 TJ/d	This Quarter	27	20
				YTD 2015/16	94	57
				Total to Date	552	476
	Combabula / Reedy Creek	1.3 TJ/d	299.9 TJ/d	This Quarter	-	25
				YTD 2015/16	130	68
				Total to Date	485	409
<b>TOTAL</b>			<b>1038.8 TJ/d<sup>12</sup></b>	<b>This Quarter</b>	<b>50</b>	<b>46</b>
				<b>YTD 2015/16</b>	<b>291</b>	<b>190</b>
				<b>Total to Date</b>	<b>1,695</b>	<b>1,460</b>

<sup>7</sup> Excludes 25 conventional wells in the Denison Trough and 23 CSG wells in the Peat Project Area not targeted for any Phase 1 development

<sup>8</sup> APLNG operated wells delivering gas to domestic customers and the CSG to LNG project

<sup>9</sup> Maximum average observable rate sustained over a week, throughout the year, from wells that have been online for more than six months

<sup>10</sup> Included in the Spring Gully wells commissioned total are 4 horizontal/vertical well pairs, represented as 8 wells. Only one well of each pair is a producing well with the maximum average well deliverability significantly more than the production expected from an average single vertical well in Spring Gully. These wells are not yet included in maximum average well deliverability rate.

<sup>11</sup> Total to date has been reduced by two wells reflecting correction of wells commissioned in March 2016 quarter

<sup>12</sup> Excludes production from the Peat Project Area and Denison Trough which collectively accounted for average production of 8.1TJ/d



## 2.1.2 APLNG Project Update

The Upstream project is 100% complete and the Downstream project was 98% complete at 30 June 2016.

During the quarter, the Bechtel performance test for Train 1 was completed and the Train 1 facility was officially handed over to the Downstream Operator, ConocoPhillips. The Train 1 operational lenders' test commenced and the release of the first tranche of shareholder guarantees are on track for the second quarter of the 2017 financial year.

Construction of the Train 2 facility continues to progress. In July 2016, first fire for the last two of seven Gas Turbine Generators (GTGs) occurred. The Upstream business continues to ramp up in readiness for Train 2 first cargo, expected in the first half of the 2017 financial year.



*Australia Pacific LNG facility on Curtis Island*

## 2.2 Origin's interests excluding APLNG

### Cooper / Eromanga Basin (South Australia / Queensland)

#### *Origin/Santos/Beach Joint Venture*

Cooper Basin production of 4.4 PJe has increased by 2% from the previous quarter.

A total of eight wells were drilled in the quarter, consisting of three development wells and five exploration/appraisal wells. An appraisal well in South West Queensland, Durham Downs 9, was plugged and abandoned. All other wells were cased and suspended as future producers.

#### *Origin/Senex/Planet Gas Joint Venture*

As part of Origin's obligations under Farm-in Agreements entered into in 2014, Origin committed to a multi well work programme. In fulfilment of the farm-in obligations, the hydraulic fracture stimulation of the Ethereal-1 exploration well in PEL 637 commenced during the quarter and extended production testing is scheduled for early in the 2017 financial year.

Also in fulfilment of the farm-in obligations, planning continued for the drilling of two wells in PEL 638 scheduled for the 2017 financial year. Origin's interest in these permits provides the opportunity to participate in technology trials and further develop learnings which may be applicable in the Beetaloo Basin and marginal and low permeability CSG acreage.

### Otway Basin (Victoria / Tasmania)

Otway Basin production of 6.1 PJe (Origin share) has increased by 74% from the previous quarter due to higher plant availability and effectiveness following Inlet Gas compressor re-wheel/refurbishment, partially offset by lower well deliverability. Previous quarter plant availability was impacted by a planned 31-day statutory compliance shutdown.

Installation of the Halladale and Speculant pipeline from the well site to Otway Gas Plant was completed during the quarter. The construction works at the well site and at the reception facilities in Otway Gas Plant have been completed in readiness for commissioning. First gas is expected in late August 2016.

### Bass Basin (Tasmania)

Bass Basin production of 2.6 PJe has increased by 3% from the previous quarter due to higher plant availability. Previous Quarter plant availability was impacted by planned pipeline inspection.

The tie-in and commissioning of the compression and condensate modules on the Yolla platform continued during the quarter and are expected to come online late in the 2017 financial year.

### Perth Basin (Western Australia)

Perth Basin production of 0.8 PJe has decreased by 6% from the previous quarter due to lower customer nominations.

Progress continued during the quarter for Stage 1A of the Waitsia gas field project which includes the connection of the Waitsia-1 and Senecio-3 gas wells to the AWE operated Xyris gas facility. First gas is expected early in the 2017 financial year.

### Beetaloo Basin (Northern Territory)

Drilling operations recommenced during the quarter with the re-entry and casing of the Amungee NW-1H well drilled in 2015.

Subsequent to the end of the quarter, Beetaloo W-1 was spudded on 22 July, with civil works ongoing as part of the CY2016 campaign which includes the drilling of two vertical wells.

## Taranaki Basin (New Zealand)

### Kupe (offshore Taranaki)

Kupe production of 4.8 PJe (Origin share) has increased by 3% from the previous quarter due to higher customer nominations.

### Rimu/Kauri/Manutahi (onshore Taranaki)

The Rimu and Kauri facilities production of 0.2 PJe was in-line with the previous quarter.

## Canterbury Basin (New Zealand)

The interpretation of 3D seismic data for the Anadarko operated PEP 38264 exploration permit in 2015 continued during the quarter.

## 3. ACQUISITIONS/DIVESTMENTS

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### DIVESTMENTS

#### Surat Basin

Origin has completed eight out of the nine Sale and Purchase Agreements (SPA) relating to the sale of the Surat Basin assets. Completion of the final SPA is expected to take place on 31 August 2016.

#### Rimu/Kauri/Manutahi (onshore Taranaki)

Origin entered into a Sale and Purchase Agreement with Westside Corporation during the Quarter. Completion is expected in mid financial year 2017.

## 4. DRILLING ACTIVITY

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### 4.1 Exploration/Appraisal

The table below summarises the exploration and appraisal drilling in which Origin had an interest during the Quarter:

Exploration/Appraisal Wells	Basin / Area	Target	Origin Interest %	Effective	Well Status
Durham Downs 9	Cooper Basin	Gas	16.74%		P&A
Durham Downs North 5	Cooper Basin	Gas	16.74%		C&S
Durham Downs North 6	Cooper Basin	Gas	16.74%		C&S
Dunadoo 1	Cooper Basin	Gas	16.74%		C&S
Coolah 3	Cooper Basin	Gas	16.74%		C&S

\* Denotes Origin operatorship

## 4.2 Development

The table below summarises development drilling in which Origin had an interest during the quarter. Origin participated in 50 CSG development wells across the Bowen and Surat Basins and three conventional gas development wells in the Cooper Basin during the quarter.

Basin / Area	Origin Effective Interest %	Well Status	Basin / Area	Origin Effective Interest %	Well Status
<b>Cooper Basin – SA</b>			Condabri South 135	37.50%*	Development
<b>Target – Gas</b>			Condabri South 136	37.50%*	Development
Tirrawarra 91	13.19%	C&S	Condabri South 137	37.50%*	Development
Tirrawarra 92	13.19%	C&S	Condabri South 138	37.50%*	Development
Tirrawarra 93	13.19%	C&S	Condabri South 139	37.50%*	Development
<b>Bowen</b>			Condabri South 140	37.50%*	Development
<b>Target – CSG</b>			Condabri South 97	37.50%*	Development
Durham Ranch 187	35.44%*	Development	Condabri South 98	37.50%*	Development
Durham Ranch 192	35.44%*	Development	Condabri South 99	37.50%*	Development
Durham Ranch 193	35.44%*	Development	Orana 139	37.50%*	Development
Durham Ranch 194	35.44%*	Development	Orana 148	37.50%*	Development
Durham Ranch 322	35.44%*	Development	Orana 149	37.50%*	Development
Durham Ranch 324	35.44%*	Development	Orana 150	37.50%*	Development
Durham Ranch 327	35.44%*	Development	Orana 160	37.50%*	Development
Spring Gully 432	35.44%*	Development	Orana 161	37.50%*	Development
Spring Gully 444	35.44%*	Development	Orana North 402	37.50%*	Development
Spring Gully 486	35.44%*	Development	Orana North 404	37.50%*	Development
Spring Gully 495	35.44%*	Development	Orana North 405	37.50%*	Development
Spring Gully 496	35.44%*	Development			
Spring Gully 497	35.44%*	Development			
Spring Gully 498	35.44%*	Development			
<b>Bowen</b>					
<b>Target – CSG</b>					
Condabri South 107	37.50%*	Development			
Condabri South 108	37.50%*	Development			
Condabri South 109	37.50%*	Development			
Condabri South 110	37.50%*	Development			
Condabri South 114	37.50%*	Development			
Condabri South 119	37.50%*	Development			
Condabri South 120	37.50%*	Development			
Condabri South 121	37.50%*	Development			
Condabri South 124	37.50%*	Development			
Condabri South 125	37.50%*	Development			
Condabri South 126	37.50%*	Development			
Condabri South 127	37.50%*	Development			
Condabri South 128	37.50%*	Development			
Condabri South 129	37.50%*	Development			
Condabri South 130	37.50%*	Development			
Condabri South 131	37.50%*	Development			
Condabri South 132	37.50%*	Development			
Condabri South 134	37.50%*	Development			

Notes:

\* Denotes Origin operatorship

## 5. EXPLORATION, EVALUATION AND CAPITAL EXPENDITURE

The table below includes total expenditure incurred on exploration and evaluation activities and capital expenditure on development and production activities. They include expenditure committed under farm-in agreements and capitalised interest and exclude expenditure on acquisitions. Expenditure in the current financial year is preliminary and is subject to audit review.

	This Quarter	Previous Quarter	Jun Qtr 2015	YTD 2015/16	YTD 2014/15
<b>A\$m</b>					
Exploration/Evaluation	24	20	38	96	186
Development/PP&E	72	89	120	357	470
<b>Total excluding APLNG</b>	<b>96</b>	<b>109</b>	<b>158</b>	<b>453</b>	<b>656</b>
Origin's Contribution to APLNG	74	276	344	1,206	2,166

## 6. CONVERSION FACTORS AND ABBREVIATIONS

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### 6.1 Conversion Factors

<b>Crude oil</b>	0.00583	PJ/kbbls
<b>Condensate</b>	0.00541	PJ/kbbls
<b>LPG</b>	0.0493	PJ/ktonnes
<b>Ethane</b>	0.0517	PJ/ktonnes
<b>LNG</b>	0.0554	PJ/ktonnes

### 6.2 Abbreviations

<b>APLNG</b>	Australia Pacific LNG – an incorporated Joint Venture between Origin, ConocoPhillips and Sinopec
<b>barrels</b>	an international measure of oil production. 1 barrel = 159 litres
<b>Bopd</b>	barrels of oil per day
<b>BTEX</b>	benzene, toluene, ethylbenzene, xylene
<b>bwpd</b>	barrels of water per day
<b>C&amp;C</b>	cased and completed
<b>C&amp;S</b>	cased and suspended
<b>CSG</b>	coal seam gas
<b>CTU</b>	coiled tubing unit
<b>DA</b>	designated authority
<b>DERM</b>	Department of Environmental and Resource Management
<b>DST</b>	Drill Stem Test
<b>EA</b>	environmental authority
<b>FEED</b>	front end engineering & design
<b>FID</b>	final investment decision
<b>GJ</b>	gigajoule = $10^9$ joules
<b>GWM</b>	Ground Water Monitoring
<b>joule</b>	a measure of energy
<b>Kbbls</b>	Kilo barrels = 1,000 barrels
<b>kT</b>	Kilo tonnes = 1,000 tonnes
<b>LNG</b>	liquefied natural gas
<b>LPG</b>	liquid petroleum gas
<b>MDRT</b>	measured depth from rotary table
<b>mmscfd</b>	million standard cubic feet per day
<b>mtpa</b>	million tonnes per annum
<b>P&amp;A</b>	plugged and abandoned
<b>P&amp;S</b>	plugged and suspended
<b>PCA</b>	potential commercial area
<b>PSC</b>	production sharing contract
<b>PSDM</b>	post stack depth migration (seismic processing)
<b>PJ</b>	petajoule = $10^{15}$ joules
<b>PJe</b>	petajoule equivalent, a measure used to express the volume of different petroleum products on the basis of the energy contained in the product
<b>Pigging</b>	pipeline examination and maintenance
<b>QGC</b>	Queensland Gas Company
<b>Spudding</b>	to commence drilling a well
<b>SWQ</b>	South West Queensland
<b>TD</b>	total depth
<b>TJ</b>	terajoule = $10^{12}$ joules
<b>TJ/d</b>	terajoules per day
<b>TVDSS</b>	Total Vertical Depth Subsea
<b>Water Inj</b>	water injection well