BHP BILLITON LTD Form 6-K January 25, 2017

#### UNITED STATES

### SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 6-K

#### REPORT OF FOREIGN PRIVATE ISSUER

PURSUANT TO RULE 13a-16 OR 15d-16

### **UNDER THE SECURITIES EXCHANGE ACT OF 1934**

January 25, 2017

## **BHP BILLITON LIMITED**

BHP BILLITON PLC

(ABN 49 004 028 077) (Exact name of Registrant as specified in its charter) (REG. NO. 3196209) (Exact name of Registrant as specified in its charter)

VICTORIA, AUSTRALIA (Jurisdiction of incorporation or organisation)

ENGLAND AND WALES (Jurisdiction of incorporation or organisation)

171 COLLINS STREET, MELBOURNE,

NEATHOUSE PLACE, LONDON,

VICTORIA 3000 AUSTRALIA (Address of principal executive offices)

UNITED KINGDOM (Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F: Form 20-F Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

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Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934: Yes No

If Yes is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): n/a

#### **NEWS RELEASE**

**Release Time** IMMEDIATE **Date** 25 January 2017

**Release Number** 2/17

#### BHP BILLITON OPERATIONAL REVIEW

#### FOR THE HALF YEAR ENDED 31 DECEMBER 2016

Record production for the half year was achieved at Western Australia Iron Ore (WAIO).

Full year production guidance maintained for Petroleum, Iron Ore and Coal.

Production guidance for Copper reduced to approximately 1.62 Mt, two per cent below prior guidance, reflecting lower volumes now expected at Olympic Dam.

In Petroleum, following the successful bid for Trion in Mexico and positive drilling results at LeClerc and Caicos, an US\$820 million exploration program is now planned for the current financial year.

All major projects under development are tracking to plan. The Bass Strait Longford Gas Conditioning Plant project achieved initial gas sales in the December 2016 quarter. Mechanical completion was achieved at the Escondida Water Supply project with first water expected in the March 2017 quarter.

Underlying attributable profit<sup>(1)</sup> in the December 2016 half year is expected to include gains related to asset divestments in a range of approximately US\$150 million to US\$200 million (details on page 2).

Production	Dec H16	vs Dec H15	
Petroleum (MMboe)			Deferral of development activity in Onshore US for value and
	106	(15%)	natural field decline in Conventional assets.
Copper (kt)			Reduced volumes at Olympic Dam, maintenance at Pampa
	712	(7%)	Norte and lower copper grades as expected at Antamina.
Iron ore <sup>(2)</sup> (Mt)			Record WAIO volumes for the half year due to the continued
	118	4%	ramp-up of additional capacity at Jimblebar.
Metallurgical coal <sup>(2)</sup>			Strong performance at four Queensland Coal mines more than
(Mt)	21	1%	offset the cessation of production at Crinum.
Energy coal <sup>(2)</sup> (Mt)			Lower production at NSWEC partially offset by strong
	14	(4%)	performance at Cerrejón.

BHP Billiton Chief Executive Officer, Andrew Mackenzie, said: We have performed well during a period of higher prices, with record iron ore volumes achieved at WAIO. Our simpler organisational structure has freed our assets to focus on what matters most and to deliver safer and more productive operations. Our consistent delivery of operating

and capital productivity, and strict adherence to our capital allocation framework have positioned us to maximise shareholder value.

In Petroleum, we will accelerate our counter-cyclical oil exploration efforts this year. Our successful Trion bid leaves us in a leading position to develop the newly opened Mexican acreage in the Gulf of Mexico, where we can leverage our core expertise. We are encouraged by recent positive drilling results at the LeClerc well in Trinidad and Tobago and the Caicos well in the Gulf of Mexico. After the first successful rig, our Onshore US gas hedging program will also be expanded to secure attractive returns.

### **Summary**

# Operational performance

Production for the December 2016 half year and quarter and guidance for the 2017 financial year are summarised in the table below.

			Dec H16	Dec Q16	Dec Q16	<b>Previous</b>	Current
			VS	VS	VS	<b>FY17</b>	<b>FY17</b>
Production	Dec H16	Dec Q16	Dec H15	Dec Q15	Sep Q16	guidance	guidance
Petroleum (MMboe)	105.9	51.4	(15%)	(15%)	(6%)	200 - 210	200 - 210
Onshore US (MMboe)	40.0	19.4	(31%)	(32%)	(6%)	77 - 83	77 - 83
Conventional (MMboe)	65.9	32.0	(1%)	1%	(6%)	123 - 127	123 - 127
Copper (kt)	712	357	(7%)	(7%)	1%	1,660	1,620
Escondida (kt)	452	234	0%	6%	8%	1,070	1,070
Other copper <sup>(i)</sup> (kt)	260	123	(16%)	(25%)	(10%)	590	550
Iron ore <sup>(ii)</sup> (Mt)	118	60	4%	9%	4%	228 - 237	228 - 237
WAIO (100% basis) (Mt)	136	70	4%	9%	4%	265 - 275	265 - 275
Metallurgical coal(ii) (Mt)	21	11	1%	2%	1%	44	44
Energy coal(ii) (Mt)	14	7	(4%)	(4%)	(3%)	30	30

- (i) Other copper comprises Pampa Norte, Olympic Dam and Antamina.
- (ii) Excludes production from Samarco, New Mexico Coal and Haju (IndoMet Coal).

# Major development projects

During the December 2016 quarter, the Bass Strait Longford Gas Conditioning Plant project achieved initial gas sales, under budget, and production is ramping up to full rate. In December 2016, mechanical completion was achieved at the Escondida Water Supply project with first water expected to be delivered in the March 2017 quarter, on schedule and budget. These two projects will not be reported in future Operational Reviews.

BHP Billiton has two major projects under development in Petroleum and Potash, with a combined budget of US\$2.9 billion over the life of the projects. Both projects remain on time and on budget.

#### Corporate update

BHP Billiton expects Underlying attributable profit(1) in the December 2016 half year to include gains related to asset divestments in a range of approximately US\$150 million to US\$200 million (Underlying EBITDA(1) impact of US\$175 million to US\$225 million).

In addition, the Group expects to record an exceptional item of US\$164 million (US\$115 million post-tax) related to the cancellation of the Caroona exploration licence and subsequent reimbursement received during the December 2016 half year.

On 20 December 2016, Samarco, Vale and BHP Billiton Brasil agreed a non-binding term sheet outlining the general terms and conditions for the use of Vale s Timbopeba pit by Samarco to deposit its tailings, should Samarco restart. A definitive agreement remains subject to a successful commercial negotiation, due diligence and relevant government approvals. These processes are likely to occur during the 2017 calendar year.

On 18 January 2017, Samarco, Vale and BHP Billiton Brasil have also entered into a preliminary agreement with the Federal Prosecutors Office in Brazil in relation to the Fundão tailings dam failure on 5 November 2015(3) (Preliminary Agreement). The Preliminary Agreement outlines the process and timeline for negotiation of a settlement of the BRL 155 billion (approximately US\$47.5 billion) Civil Claim relating to the dam failure.

For the December 2016 half year, we are not yet in a position to provide an update to the ongoing potential financial impacts on BHP Billiton Brasil of the Samarco dam failure. Any financial impacts will continue to be classified as an exceptional item.

The above guidance will be updated should material information or events arise as the Group finalises its financial statements.

BHP Billiton Operational Review for the half year ended 31 December 2016

### Marketing update

The average realised prices achieved for our major commodities are summarised in the table below. The majority of iron ore shipments were linked to the index price for the month of shipment, with price differentials predominantly reflecting product quality and market fundamentals. The majority of metallurgical coal and energy coal exports were linked to the index price for the month of shipment or sold on the spot market at fixed or index-linked prices, with price differentials reflecting product quality.

					Dec H16	Dec H16	Dec H16
					VS	VS	VS
Average realised prices(i)	Dec H16	Dec H15	Jun H16	<b>FY16</b>	Dec H15	Jun H16	<b>FY16</b>
Oil (crude and condensate) (US\$/bbl)	45	42	37	39	7%	22%	15%
Natural gas (US\$/Mscf)(ii)	3.21	2.91	2.74	2.83	10%	17%	13%
US natural gas (US\$/Mscf)	2.79	2.35	1.96	2.16	19%	42%	29%
LNG (US\$/Mscf)	6.35	8.24	7.12	7.71	(23%)	(11%)	(18%)
Copper (US\$/lb)	2.41	2.12	2.16	2.14	14%	12%	13%
Iron ore (US\$/wmt, FOB)	55	43	44	44	28%	25%	25%
Hard coking coal (US\$/t)	179	82	83	83	118%	116%	116%
Weak coking coal (US\$/t)	122	67	70	69	82%	74%	77%
Thermal coal (US\$/t)(iii)	74	49	46	48	51%	61%	54%
Nickel metal (US\$/t)	10,581	9,926	8,792	9,264	7%	20%	14%

- (i) Based on provisional, unaudited estimates. Prices exclude third party product and internal sales, and represent the weighted average of various sales terms (for example: FOB, CIF and CFR), unless otherwise noted.
- (ii) Includes internal sales.
- (iii) Export sales only; excludes Cerrejón. Includes thermal coal sales from metallurgical coal mines.

At 31 December 2016, the Group had 267 kt of outstanding copper sales that were revalued at a weighted average price of US\$2.51 per pound. The final price of these sales will be determined over the remainder of the 2017 financial year. In addition, 316 kt of copper sales from the 2016 financial year were subject to a finalisation adjustment in the current period. The provisional pricing and finalisation adjustments will increase earnings before interest and tax by US\$37 million in the December 2016 half year.

#### **Petroleum**

#### **Production**

	Dec H16	Dec Q16	Dec H16 vs Dec H15	Dec Q16 vs Dec Q15	Dec Q16 vs Sep Q16
Crude oil, condensate and natural gas liquids					
(MMboe)	48.2	23.9	(20%)	(20%)	(1%)
Natural gas (bcf)	347	165	(10%)	(10%)	(9%)
Total petroleum production (MMboe)	105.9	51.4	(15%)	(15%)	(6%)

**Total petroleum production** Total petroleum production for the December 2016 half year decreased by 15 per cent to 105.9 MMboe. Guidance for the 2017 financial year remains unchanged at between 200 and 210 MMboe, comprising Conventional volumes between 123 and 127 MMboe and Onshore US volumes between 77 and 83 MMboe.

**Crude oil, condensate and natural gas liquids** Crude oil, condensate and natural gas liquids production for the December 2016 half year decreased by 20 per cent to 48.2 MMboe.

Onshore US liquids volumes decreased by 37 per cent to 16.4 MMboe as a result of a reduction in activity in the Black Hawk for value and natural field decline, which more than offset increased liquids production from the Permian.

Conventional liquids volumes decreased by seven per cent as higher production at Bass Strait and North West Shelf and an additional infill well at Mad Dog partially offset natural field decline across the portfolio and planned maintenance at Atlantis.

**Natural gas** Natural gas production for the December 2016 half year declined by 10 per cent to 347 bcf.

The decline primarily reflects lower Onshore US gas volumes as a result of the decision to defer development activity for value and the divestment of our gas business in Pakistan. This was partially offset by higher demand at Bass Strait and Macedon and increased LNG volumes at North West Shelf.

On 5 September 2016, BHP Billiton announced the sale of 50 per cent of its interest in the undeveloped Scarborough area gas fields. ExxonMobil will remain operator of Scarborough and operatorship of North Scarborough will transfer from BHP Billiton to Woodside. The sale was completed during the December 2016 quarter.

# **Projects**

		Initial		
	Capital	production		
	expenditure	target		
Project and ownership	(US\$m)	date	Capacity	Progress

Bass Strait Longford Gas  Conditioning Plant  (Australia)  50% (non-operator)	520	CY16	Designed to process approximately 400 MMcf/d of high-CO <sub>2</sub> gas.	Initial gas sales achieved in Q4 CY16, under budget and production ramping up to full rate.
North West Shelf  Greater Western Flank-B	314	CY19	To maintain LNG plant throughput from the North West Shelf operations.	On schedule and budget. The overall project is 27% complete.
(Australia)				

#### 16.67% (non-operator)

Petroleum capital expenditure guidance of approximately US\$1.4 billion (excluding US\$0.2 billion from capital creditor movements) for the 2017 financial year remains unchanged. This includes Conventional capital expenditure of US\$0.8 billion which is focused on life extension projects at Bass Strait and North West Shelf. Onshore US capital expenditure is expected to be US\$0.6 billion with development activity tailored to market conditions.

During the December 2016 quarter, BP (the operator) sanctioned the Mad Dog Phase 2 project. Approval from BHP Billiton's Board will be sought during the March 2017 quarter.

## Onshore US development activity

Onshore US drilling and development expenditure for the December 2016 half year was approximately US\$273 million. Our operated rig count increased from two to three during the December 2016 quarter with deployment of a rig in the Haynesville in October 2016, following the successful execution of our hedging pilot. Additional hedge activity during the quarter has led to approval of a second rig in the Haynesville with operations expected to commence in March 2017. Completions activity in the Black Hawk was accelerated in the December 2016 quarter to drawdown drilled and uncompleted inventory as market conditions improved. We are currently progressing trials in the Black Hawk, testing the potential for staggered wells to increase recovery, larger frac jobs to improve productivity and the potential of the Upper Eagle Ford horizon. We expect early results of these trials to be known during the September 2017 quarter.

December 2016 half year		Liquids focused areas		Gas focu	ised areas	
(December 2015 half year)		<b>Eagle Ford</b>	Permian	Haynesville	Fayetteville	Total
Capital expenditure(i)	US\$ billion	0.1 (0.6)	0.1 (0.2)	0.0(0.0)	0.0(0.0)	0.3 (0.8)
Rig allocation	At period end	1 (5)	1 (2)	1 (0)	0(0)	3 (7)
Net wells drilled and						
completed(ii)	Period total	43 (74)	15 (19)	0 (4)	2 (10)	60 (107)
Net productive wells	At period end	942 (912)	118 (94)	394 (409)	1,042 (1,085)	2,496 (2,500)

- (i) Includes land acquisition, site preparation, drilling, completions, well site facilities, mid-stream infrastructure and pipelines.
- (ii) Can vary between periods based on changes in rig activity and the inventory of wells drilled but not yet completed at period end.

# Petroleum exploration

Exploration and appraisal wells drilled during the December 2016 quarter are summarised below.

			BHP Billiton		ŗ	Fotal well	
Well	Location	<b>Target</b>	equity	Spud dateV	Vater depth	depth	Status
Burrokeet-1	Trinidad & Tobago	Oil	70%	8 August	1,923 m	3,337 m	Plugged and abandoned
	Block 23a		(Operator)	2016			
Burrokeet-2	Trinidad & Tobago	Oil	70%	18 August	1,923 m	7,348 m	Plugged and abandoned
	Block 23a		(Operator)	2016			

The Burrokeet-1 well encountered mechanical difficulty shortly after spud and was plugged and abandoned. Non-commercial hydrocarbons were encountered at Burrokeet-2 with analysis ongoing. Phase 1 of the Trinidad and Tobago deep water drilling campaign has concluded. Following the oil discovery in the Shenzi North and Caicos wells in the central Gulf of Mexico, the Invictus rig has been mobilised for drilling the Wildling well in the March 2017 quarter.

During the December 2016 quarter, BHP Billiton won the bid to acquire a 60 per cent participating interest in and operatorship of blocks AE-0092 and AE-0093, containing the Trion discovered resource, in Mexico. Subject to satisfaction of conditions, BHP Billiton anticipates signing the relevant agreements in the March 2017 quarter.

In the US Gulf of Mexico, we increased acreage position and operatorship in the Southern Green Canyon Miocene and Western Gulf of Mexico Paleogene key focus areas. The regulator awarded all 12 of the leases for which BHP Billiton was the apparent high bidder in the Western Gulf of Mexico Lease Sale 248. In addition, BHP Billiton cross-assigned nine leases in Green Canyon with Statoil Gulf of Mexico LLC and Repsol E&P USA Inc. The cross-assignment results in BHP Billiton having a 65 per cent interest and operatorship over the nine leases, ahead of drilling the Scimitar exploration well in the June 2017 quarter. The regulator also approved assignment of BHP Billiton s 60 per cent interest in two leases in Green Canyon (GC 633 and 676) to Chevron U.S.A. Inc.

In Australia, seismic work commenced in the Exmouth sub-basin following regulatory approval of the Good Standing Agreement in relation to the WA-475-P permit. The WA-335-P permit was officially relinquished after receiving consent from the regulator to surrender the permit.

Petroleum exploration expenditure for the December 2016 half year was US\$364 million, of which US\$217 million was expensed. An US\$820 million exploration program is now planned for the 2017 financial year, an increase of US\$120 million from prior guidance, following the successful bid for Trion in Mexico and positive drilling results at the LeClerc well in Trinidad and Tobago and the Caicos well in the Gulf of Mexico.

BHP Billiton Operational Review for the half year ended 31 December 2016

### Copper

#### **Production**

			Dec H16	Dec Q16	Dec Q16
			VS	VS	VS
	<b>Dec H16</b>	Dec Q16	Dec H15	Dec Q15	Sep Q16
Copper (kt)	712	357	(7%)	(7%)	1%
Zinc (t)	37,773	22,406	2%	36%	46%
Uranium oxide concentrate (t)	1,976	1,060	(22%)	(22%)	16%

**Copper** Total copper production for the December 2016 half year decreased by seven per cent to 712 kt. Production for the 2017 financial year is now expected to be approximately 1.62 Mt, two per cent below prior guidance, and reflects a reduction in volumes at Olympic Dam.

Escondida copper production for the December 2016 half year was unchanged at 452 kt as higher concentrate production was offset by lower cathode production. During the period there was a four day site-wide suspension of operations to conduct an investigation following a fatality on 21 October 2016. Production guidance for Escondida remains unchanged at 1,070 kt, with volumes weighted to the second half of the 2017 financial year. The current Collective Agreement with Escondida N°1 Union expires on 31 January 2017 and negotiations for a new agreement are in progress. The commissioning of the Escondida Water Supply project and the planned ramp-up of the Los Colorados Extension project late in the 2017 financial year, will enable full utilisation of three concentrators during the 2018 financial year.

Pampa Norte copper production for the December 2016 half year decreased by eight per cent to 116 kt, with an unplanned outage offsetting improved recoveries at Cerro Colorado, and planned maintenance offsetting record ore milled at Spence in the December 2016 quarter. Copper production decreased by 13 per cent from the September 2016 quarter mainly due to suspension of the processing operations at the Cerro Colorado Ore Handling Plant 2 following the failure of a transfer chute. Pampa Norte copper production guidance for the 2017 financial year remains unchanged and is expected to be higher than the prior year supported by the completion of the Spence Recovery Optimisation project which achieved an annualised production run rate of 200 ktpa in the month of December 2016.

Olympic Dam copper production for the December 2016 half year decreased by 30 per cent to 78 kt following planned maintenance and a state-wide power outage which commenced on 28 September 2016. Power was safely restored on 14 October 2016 and operations were fully ramped-up in the December 2016 quarter. Olympic Dam copper production of approximately 160 kt to 170 kt is now expected for the 2017 financial year. Lower volumes reflect the power outage and unplanned maintenance at the refinery which commenced at the end of December 2016, ahead of the major smelter maintenance campaign planned for the September 2017 quarter.

Antamina copper production for the December 2016 half year decreased by nine per cent to 66 kt reflecting lower copper grades as mining progressed through a zinc rich ore zone, consistent with the mine plan. Guidance for the 2017 financial year remains unchanged at 130 kt. Zinc production for the December 2016 half year increased by two per cent to 38 kt with guidance for the 2017 financial year unchanged at 90 kt.

#### **Project**

Project and ownership Capacity Progress

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	Capital expenditure (US\$m)	Initial production target date		
Escondida Water Supply (Chile) 57.5%	3,430	CY17	New desalination facility to ensure continued water supply to Escondida.	Mechanical completion achieved with first water expected in the March 2017 quarter. Project on schedule and budget. The overall project is 99% complete.

BHP Billiton Operational Review for the half year ended 31 December 2016

#### **Iron Ore**

#### **Production**

			Dec H16	Dec Q16	Dec Q16
			VS	VS	VS
	Dec H16	Dec Q16	Dec H15	Dec Q15	Sep Q16
Iron ore <sup>(i)</sup> (kt)	117,636	60,049	4%	9%	4%

(i) Represents Western Australia Iron Ore (WAIO). Excludes production from Samarco.

Iron ore Total iron ore production for the December 2016 half year increased by four per cent to 118 Mt or 136 Mt on a 100 per cent basis. Guidance for the 2017 financial year remains unchanged at between 228 and 237 Mt or between 265 and 275 Mt on a 100 per cent basis, excluding production from Samarco.

WAIO achieved record production for the December 2016 half year as a result of the continued ramp-up of additional capacity at Jimblebar with the commissioning of a new primary crusher and additional conveying capacity. Combined with improved track reliability and lower scheduled maintenance at Yandi, volumes increased by four per cent from the September 2016 quarter. The rail renewal and maintenance program, which will support the supply chain s long-term reliability, is progressing ahead of schedule and is now expected to be completed in the June 2017 quarter.

Mining and processing operations at Samarco remain suspended following the failure of the Fundão tailings dam and Santarém water dam on 5 November 2015.

#### Coal

#### **Production**

			Dec H16	Dec Q16	Dec Q16
			VS	VS	VS
	Dec H16	Dec Q16	Dec H15	Dec Q15	Sep Q16
Metallurgical coal(i) (kt)	21,142	10,613	1%	2%	1%
Energy coal(ii) (kt)	13,531	6,651	(4%)	(4%)	(3%)

- (i) Represents Queensland Coal. Excludes production from Haju following the divestment of IndoMet Coal (2017 financial year: 129 kt).
- (ii) Excludes production from New Mexico Coal following divestments (2017 financial year: 451 kt). **Metallurgical coal** Metallurgical coal production for the December 2016 half year increased by one per cent to 21 Mt. Guidance for the 2017 financial year remains unchanged at 44 Mt.

Strong performances at Broadmeadow, Peak Downs, Saraji and Caval Ridge, underpinned by additional stripping and higher wash-plant utilisation, more than offset the completion of longwall mining at Crinum in the December 2015 quarter, adverse weather conditions in the September 2016 quarter and lower yield at South Walker Creek.

Record production at Peak Downs was achieved during the December 2016 quarter with coal opportunistically trucked to Caval Ridge in order to utilise latent wash-plant capacity.

**Energy coal** Energy coal production for the December 2016 half year decreased by four per cent to 14 Mt. Guidance for the 2017 financial year remains unchanged at 30 Mt.

New South Wales Energy Coal recorded improved underlying truck utilisation, however production declined by 13 per cent as a higher drawdown of in-pit and Run-of-Mine (ROM) inventories benefitted the December 2015 half year. This was partially offset by an 11 per cent increase in volumes at Cerrejón compared to the December 2015 half year which was constrained by drought conditions.

The divestment of Navajo Coal was completed on 29 July 2016, with management of the mine transferred to Navajo Transitional Energy Company on 31 December 2016.

#### Other

## Nickel production

			Dec H16	Dec Q16	Dec Q16
			vs	VS	VS
	<b>Dec H16</b>	Dec Q16	Dec H15	Dec Q15	Sep Q16
Nickel (kt)	40.9	22.1	10%	45%	18%

**Nickel** Nickel West production for the December 2016 half year increased by 10 per cent to 40.9 kt. Ongoing debottlenecking activities have resulted in record production at the Kwinana refinery. Nickel production guidance for the 2017 financial year remains unchanged and is expected to increase by approximately 10 per cent from the prior year.

## Potash project

	Investment		
Project and ownership	(US\$m)	Scope	Progress
Jansen Potash (Canada)	2,600	Investment to finish the excavation and lining	The project is 64%
100%		of the production and service shafts, and to	complete and on budget.
		continue the installation of essential surface	Both shafts have been
		infrastructure and utilities.	safely excavated and lined
			through the Blairmore
			aquifer. The engineering
			contract for feasibility
			studies of Jansen Stage 1
			has been awarded.

## **Minerals exploration**

Minerals exploration expenditure for the December 2016 half year was US\$75 million, of which US\$75 million was expensed. Greenfield minerals exploration is predominantly focused on advancing copper targets within Chile, Peru, Canada, South Australia and the South-West United States.

Variance analysis relates to the relative performance of BHP Billiton and/or its operations during December 2016 half year compared with the December 2015 half year, unless otherwise noted. Production volumes, sales volumes and capital and exploration expenditure from subsidiaries are reported on a 100 per cent basis; production and sales volumes from equity accounted investments and other operations are reported on a proportionate consolidation basis.

The following footnotes apply to this Operational Review:

Underlying EBITDA and Underlying attributable profit are used to reflect the underlying performance of BHP Billiton. Underlying EBITDA is earnings before net finance costs, taxation, depreciation, amortisation,

- impairment and any exceptional items. Underlying attributable profit is Attributable profit excluding any exceptional items.
- (2) Excludes production from Samarco, Haju (IndoMet Coal) and New Mexico Coal.
- (3) Under the Preliminary Agreement, Samarco, Vale and BHP Billiton Brasil will provide, subject to Court approval, total security of BRL 2.2 billion (approximately US\$675 million, 100 per cent basis) to support the payments for the social and environmental remediation programs under the Framework Agreement (Interim Security). The Interim Security comprises a charge over Samarco's assets of BRL 800 million (approximately US\$245 million), insurance bonds of BRL 1.3 billion (approximately US\$400 million), and liquid assets of BRL 100 million (approximately US\$30 million). During the period that the Interim Security is in place, it will, subject to Court approval, replace the BRL 1.2 billion injunction (approximately US\$370 million) issued in the BRL 20 billion Civil Claim. In addition, the applications by the Federal Prosecutors for the BRL 7.7 billion injunction (approximately US\$2.4 billion) in the BRL 155 billion Civil Claim and the BRL 20 billion asset freezing order (approximately US\$6 billion) in the criminal proceedings commenced by the Federal Prosecutors in Brazil against Samarco, Vale, BHP Billiton Brasil and others will be suspended. The parties have agreed that the Interim Security will remain in place until the earlier of 30 June 2017 and the date that a final settlement arrangement is agreed between the Federal Prosecutors Office in Brazil, and Samarco, Vale and BHP Billiton Brasil. If a final settlement arrangement is not agreed by 30 June 2017, the Federal Prosecutors may request reinstatement by the Court of the BRL 1.2 billion (approximately US\$370 million) injunction.

The following abbreviations may have been used throughout this report: barrels (bbl); billion cubic feet (bcf); cost and freight (CFR); cost, insurance and freight (CIF); dry metric tonne unit (dmtu); free on board (FOB); grams per tonne (g/t); kilograms per tonne (kg/t); kilometre (km); metre (m); million barrels of oil equivalent (MMboe); million cubic feet per day (MMcf/d); million tonnes (Mt); million tonnes per annum (Mtpa); ounces (oz); pounds (lb); thousand barrels of oil equivalent (Mboe); thousand ounces (koz); thousand standard cubic feet (Mscf); thousand tonnes (kt); thousand tonnes per annum (ktpa); thousand tonnes per day (ktpd); tonnes (t); and wet metric tonnes (wmt).

Further information on BHP Billiton can be found at: bhpbilliton.com

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BHP Billiton Operational Review for the half year ended 31 December 2016

# **Production summary**

			Qı	uarter ende	d		Year to date		
	BHP Billiton	Dec	Mar	Jun	Sep	Dec	Dec	Dec	
	interest	2015	2016	2016	2016	2016	2016	2015	
Petroleum (1)									
Petroleum									
Crude oil, condensate an	ıd								
NGL (Mboe)									
Onshore US		12,805	12,454	9,469	8,288	8,143	16,431	26,258	
Conventional		16,976	16,727	16,896	15,959	15,768	31,727	34,235	
Total		29,781	29,181	26,365	24,247	23,911	48,158	60,493	
Natural gas (bcf)									
Onshore US		94.4	89.9	82.0	73.9	67.8	141.7	192.6	
Conventional		88.4	91.5	95.7	107.8	97.1	204.9	193.0	
Total		182.8	181.4	177.7	181.7	164.9	346.6	385.6	
Total petroleum									
production (MMboe)		60.2	59.4	56.0	54.5	51.4	105.9	124.7	
Copper (2)									
Copper									
Payable metal in									
concentrate (kt)									
Escondida (3)	57.5%	131.7	174.9	182.7	147.0	162.6	309.6	291.3	
Antamina	33.8%	37.2	35.4	38.7	34.1	32.0	66.1	72.3	
Total		168.9	210.3	221.4	181.1	194.6	375.7	363.6	
Cathode (kt)									
Escondida (3)	57.5%	89.3	84.8	85.3	70.5	71.5	142.0	160.2	
Pampa Norte (4)	100%	69.0	59.8	65.8	62.1	53.8	115.9	125.8	
Olympic Dam	100%	57.4	49.8	40.7	40.9	37.2	<b>78.1</b>	112.3	
T-4-1		0157	104.4	101.0	172.5	160 5	226.0	200.2	
Total		215.7	194.4	191.8	173.5	162.5	336.0	398.3	
Total copper (kt)		384.6	404.7	413.2	354.6	357.1	711.7	761.9	
Total copper (Kt)		304.0	404./	413.2	334.0	337.1	/11./	701.9	

Lead

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Payable metal in								
concentrate (t)	22.00	1.024	1 102	615	1 146	1 220	2266	1 001
Antamina	33.8%	1,024	1,193	645	1,146	1,220	2,366	1,881
Total		1,024	1,193	645	1,146	1,220	2,366	1,881
						,	·	
Zinc								
Payable metal in concentrate (t)								
Antamina	33.8%	16,454	11,913	6,474	15,367	22,406	37,773	37,051
	22.070	10,	11,510	٥,	10,007	,	0.,0	57,001
Total		16,454	11,913	6,474	15,367	22,406	37,773	37,051
Gold								
Payable metal in								
concentrate (troy oz)	57.50	17.000	21 400	25.004	27.561	25.504	CE 245	41.604
Escondida (3) Olympic Dam (refined	57.5%	17,889	31,408	35,894	27,561	37,784	65,345	41,694
gold)	100%	39,299	29,028	20,010	24,366	29,651	54,017	68,648
golu)	10070	37,277	27,020	20,010	24,500	27,031	34,017	00,040
Total		57,188	60,436	55,904	51,927	67,435	119,362	110,342
		27,120		,	-,	.,,	,	,- :-
Silver								
Payable metal in								
concentrate (troy koz)								
Escondida (3)	57.5%	962	1,544	1,874	1,229	1,323	2,552	2,143
Antamina	33.8%	1,636	1,751	1,558	1,345	1,446	2,791	3,402
Olympic Dam (refined	1,000	065	1774	222	162	100	251	<b>511</b>
silver)	100%	265	174	232	163	188	351	511
Total		2,863	3,469	3,664	2,737	2,957	5,694	6,056
Total		2,003	3,407	3,004	2,737	2,751	3,074	0,030
Uranium								
Payable metal in								
concentrate (t)								
Olympic Dam	100%	1,352	961	876	916	1,060	1,976	2,526
Total		1,352	961	876	916	1,060	1,976	2,526
Molybdenum								
Payable metal in								
concentrate (t)								
Antamina	33.8%	232	227	562	561	225	786	324
Total		232	227	562	561	225	786	324
Total		434	221	302	301	223	700	344

BHP Billiton Operational Review for the half year ended 31 December 2016

# **Production summary**

			Q	uarter ende			Year to date		
	BHP Billiton interest	Dec 2015	Mar 2016	Jun 2016	Sep 2016	Dec 2016	Dec 2016	Dec 2015	
I O	merest	2013	2010	2010	2010	2010	2010	2013	
Iron Ore Iron Ore									
Production (kt) (5)									
Newman	85%	17,003	15,817	15,115	18,008	17,751	35,759	35,009	
Area C Joint Venture	85%	11,723	11,002	11,911	12,384	12,179	24,563	23,886	
Yandi Joint Venture	85%	15,960	16,204	18,325	15,729	17,555	33,284	32,846	
Jimblebar (6)	85%	4,852	5,472	5,304	6,057	5,178	11,235	8,114	
Wheelarra	85%	5,757	4,562	4,971	5,409	7,386	12,795	13,016	
Samarco	50%	1,665	.,002	.,> , =	2,.05	.,000	12,,,,,	5,404	
	20,0	1,000						2,101	
Total		56,960	53,057	55,626	57,587	60,049	117,636	118,275	
		,	,	,-	,	,	,	-,	
Coal									
Metallurgical coal									
Production (kt) (7)									
BMA	50%	8,207	7,894	9,225	8,384	8,684	17,068	16,294	
BHP Billiton Mitsui Coal	30 70	0,207	7,094	9,223	0,504	0,004	17,000	10,294	
(8)	80%	2,191	2,015	2,345	2,145	1,929	4,074	4,538	
Haju (9)	75%	87	167	260	102	27	129	102	
Haju ())	1370	07	107	200	102	21	12)	102	
Total		10,485	10,076	11,830	10,631	10,640	21,271	20,934	
- 0 101		20,100	- 0,0 / 0	,			,	_0,,	
E									
Energy coal									
Production (kt) USA	100%	2 622	1,112	632	451		451	5 200	
Australia	100%	2,632 4,277	4,189	3,991		3,851	7,803	5,308	
Colombia	33.3%	2,628	2,610	2,329	3,952 2,928	2,800	5,728	8,921 5,155	
Colollibia	33.3%	2,028	2,010	2,329	2,920	2,000	5,740	3,133	
Total		9,537	7,911	6,952	7,331	6,651	13,982	19,384	
Total		7,551	7,711	0,732	7,551	0,051	13,702	17,504	
0.41									
Other									
Nickel									
Saleable production (kt)		15.0	20.0	22.4	10.0	22.1	40.0	27.2	
Nickel West	100%	15.2	20.0	23.4	18.8	22.1	40.9	37.3	
Total		15.2	20.0	23.4	18.8	22.1	40.9	37.3	

<sup>(1)</sup> LPG and ethane are reported as natural gas liquids (NGL). Product-specific conversions are made and NGL is reported in barrels of oil equivalent (boe). Total boe conversions are based on 6 bcf of natural gas equals 1

### MMboe.

- (2) Metal production is reported on the basis of payable metal.
- (3) Shown on a 100% basis. BHP Billiton interest in saleable production is 57.5%.
- (4) Includes Cerro Colorado and Spence.
- (5) Iron ore production is reported on a wet tonnes basis.
- (6) Shown on a 100% basis. BHP Billiton interest in saleable production is 85%.
- (7) Metallurgical coal production is reported on the basis of saleable product. Production figures include some thermal coal.
- (8) Shown on a 100% basis. BHP Billiton interest in saleable production is 80%.
- (9) Shown on a 100% basis. BHP Billiton interest in saleable production is 75%.

Throughout this report figures in italics indicate that this figure has been adjusted since it was previously reported.

BHP Billiton Operational Review for the half year ended 31 December 2016

# **Production and sales report**

			Οι	arter end	ed		Year to date		
		Dec	Mar	Jun	Sep	Dec	Dec	Dec	
		2015	2016	2016	2016	2016	2016	2015	
Petroleum (1)									
Bass Strait									
Crude oil and condensate	(Mboe)	1,390	1,813	1,745	1,922	1,770	3,692	3,267	
NGL	(Mboe)	1,307	1,455	1,831	2,102	1,460	3,562	3,398	
Natural gas	(bcf)	23.9	30.3	38.1	41.9	31.3	73.2	62.6	
Total petroleum products	(MMboe)	6.7	8.3	9.9	11.0	8.4	19.5	17.1	
North West Shelf									
Crude oil and condensate	(Mboe)	1,423	1,124	925	1,486	1,468	2,954	2,785	
NGL	(Mboe)	235	259	241	292	263	555	462	
Natural gas	(bcf)	34.9	33.8	27.6	38.7	36.9	<b>75.6</b>	68.8	
Total petroleum products	(MMboe)	7.5	7.0	5.8	8.2	7.9	16.1	14.7	
Pyrenees									
Crude oil and condensate	(Mboe)	2,331	2,093	2,097	1,676	1,726	3,402	4,427	
Total petroleum products	(MMboe)	2.3	2.1	2.1	1.7	1.7	3.4	4.4	
Other Australia (2)									
Crude oil and condensate	(Mboe)	9	8	9	10	8	18	22	
Natural gas	(bcf)	14.4	16.2	17.2	17.5	17.1	34.6	31.0	
Ţ.	,								
Total petroleum products	(MMboe)	2.4	2.7	2.9	2.9	2.9	5.8	5.2	
Atlantis (3)									
Crude oil and condensate	(Mboe)	4,257	4,056	4,058	3,054	3,263	6,317	7,894	
NGL	(Mboe)	278	270	269	208	207	415	509	
Natural gas	(bcf)	2.0	1.9	1.9	1.5	1.6	3.1	3.6	
8···	()								
Total petroleum products	(MMboe)	4.9	4.6	4.6	3.5	3.7	7.2	9.0	
Mad Dog (3)									
Crude oil and condensate	(Mboe)	648	880	1,134	950	1,170	2,120	1,236	
NGL	(Mboe)	41	41	52	36	52	88	64	
Natural gas	(bcf)	0.1	0.1	0.2	0.1	0.2	0.3	0.2	
-									
Total petroleum products	(MMboe)	0.7	0.9	1.2	1.0	1.3	2.3	1.3	

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Shenzi (3)								
Crude oil and condensate	(Mboe)	3,185	3,094	2,813	2,632	2,692	5,324	6,462
NGL	(Mboe)	269	206	192	94	131	225	505
Natural gas	(bcf)	0.8	0.6	0.6	0.5	0.5	1.0	1.5
Total petroleum products	(MMboe)	3.6	3.4	3.1	2.8	2.9	5.7	7.2
Eagle Ford (4)								
Crude oil and condensate	(Mboe)	7,156	7,018	4,949	3,871	4,008	7,879	14,856
NGL	(Mboe)	3,806	3,649	2,717	2,268	2,159	4,427	7,605
Natural gas	(bcf)	25.4	25.1	19.5	16.5	15.2	31.7	51.2
Total petroleum products	(MMboe)	15.2	14.9	10.9	8.9	8.7	17.6	31.0
Permian (4)								
Crude oil and condensate	(Mboe)	1,354	1,499	1,410	1,415	1,378	2,793	2,835
NGL	(Mboe)	488	288	393	734	580	1,314	961
Natural gas	(bcf)	3.4	2.4	4.9	4.4	4.4	8.8	7.3
Total petroleum products	(MMboe)	2.4	2.2	2.6	2.9	2.7	5.6	5.0
Haynesville (4)								
Crude oil and condensate	(Mboe)	1				3	3	1
NGL	(Mboe)					15	15	
Natural gas	(bcf)	34.7	34.4	31.1	28.2	24.0	52.2	71.1
Total petroleum products	(MMboe)	5.8	5.7	5.2	4.7	4.0	8.7	11.9
Fayetteville (4)								
Natural gas	(bcf)	30.9	28.0	26.5	24.8	24.2	49.0	63.0
Total petroleum products	(MMboe)	5.2	4.7	4.4	4.1	4.0	8.2	10.5

# **Production and sales report**

			Q	uarter ende	d		Year to date		
		Dec	Mar	Jun	Sep	Dec	Dec	Dec	
		2015	2016	2016	2016	2016	2016	2015	
Petroleum (1) (continued)									
Trinidad/Tobago									
Crude oil and condensate	(Mboe)	185	120	162	140	156	296	427	
Natural gas	(bcf)	7.4	7.4	8.6	6.4	8.4	14.8	15.0	
Total petroleum products	(MMboe)	1.4	1.4	1.6	1.2	1.6	2.8	2.9	
Other Americas (3) (5)									
Crude oil and condensate	(Mboe)	360	334	308	275	269	544	721	
NGL	(Mboe)	16	12	10	1	5	6	28	
Natural gas	(bcf)	0.2	0.2	0.2	0.1	0.1	0.2	0.4	
Total petroleum products	(MMboe)	0.4	0.4	0.4	0.3	0.3	0.6	0.8	
UK									
Crude oil and condensate	(Mboe)	74	65	76	69	63	132	133	
NGL	(Mboe)	27	10	10	22	49	71	23	
Natural gas	(bcf)	1.0	1.0	1.3	1.1	1.0	2.1	2.0	
Total petroleum products	(MMboe)	0.3	0.2	0.3	0.3	0.3	0.6	0.5	
Algeria									
Crude oil and condensate	(Mboe)	922	887	964	990	1,016	2,006	1,838	
Total petroleum products	(MMboe)	0.9	0.9	1.0	1.0	1.0	2.0	1.8	
Pakistan (6)									
Crude oil and condensate	(Mboe)	19						42	
Natural gas	(bcf)	3.7						7.9	
Total petroleum products	(MMboe)	0.6						1.4	
Total petroleum products									
Crude oil and condensate									
Onshore US	(Mboe)	8,511	8,517	6,359	5,286	5,389	10,675	17,692	
Conventional (7)	(Mboe)	14,803	14,474	14,291	13,204	13,601	26,805	29,246	
Total	(Mh a a)	22 214	22.001	20.650	10 400	10 000	27 400	46.020	
Total	(Mboe)	23,314	22,991	20,650	18,490	18,990	37,480	46,938	

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NGL								
Onshore US	(Mboe)	4,294	3,937	3,110	3,002	2,754	5,756	8,566
Conventional	(Mboe)	2,173	2,253	2,605	2,755	2,167	4,922	4,989
Total	(Mboe)	6,467	6,190	5,715	5,757	4,921	10,678	13,555
Natural gas								
Onshore US	(bcf)	94.4	89.9	82.0	73.9	<b>67.8</b>	<b>141.7</b>	192.6
Conventional	(bcf)	88.4	91.5	95.7	107.8	97.1	204.9	193.0
Total	(bcf)	182.8	181.4	177.7	181.7	164.9	346.6	385.6

- (1) Total boe conversions are based on 6 bcf of natural gas equals 1 MMboe. Negative production figures represent finalisation adjustments.
- (2) Other Australia includes Minerva and Macedon.
- (3) Gulf of Mexico volumes are net of royalties.
- (4) Onshore US volumes are net of mineral holder royalties.
- (5) Other Americas includes Neptune, Genesis and Overriding Royalty Interest.
- (6) BHP Billiton completed the sale of the Pakistan gas business on 31 December 2015.
- (7) September 2015 includes (8) Mboe for the finalisation adjustment following the cessation of production at Stybarrow on 26 June 2015.

# **Production and sales report**

		Dec 2015	Qu Mar 2016	Jun 2016	Sep 2016	Dec 2016	Year to Dec 2016	Dec 2015
Copper Metals produc	ction is navah	le metal unle	ss otherwise	stated				
Escondida,	otion is payao	ie metar ame	ss offici wise	stated.				
Chile (1)								
Material mined	(kt)	109,200	105,970	108,037	106,504	90,863	197,367	219,267
Sulphide ore milled	(kt)	18,076	21,188	22,905	20,787	19,866	40,653	40,896
Average copper grade	(%)	0.99%	0.99%	0.94%	0.87%	1.02%	0.94%	1.00%
Production ex mill	(kt)	142.8	175.8	181.7	153.2	168.6	321.8	312.5
Production								
Payable copper	(kt)	131.7	174.9	182.7	147.0	162.6	309.6	291.3
Copper cathode (EW)	(kt)	89.3	84.8	85.3	70.5	71.5	142.0	160.2
- Oxide	(Kt)	69.5	04.0	65.5	70.5	71.5	142.0	100.2
leach	(kt)	32.1	31.0	31.3	26.8	24.4	51.2	55.5
- Sulphide leach	(kt)	57.2	53.8	54.0	43.7	47.1	90.8	104.7
Payable gold concentrate	(troy oz)	17,889	31,408	35,894	27,561	37,784	65,345	41,694
Payable silver concentrate	(troy koz)	962	1,544	1,874	1,229	1,323	2,552	2,143
Sales								
Payable copper Copper	(kt)	123.8	181.7	186.6	134.9	172.7	307.6	281.4
cathode (EW)	(kt)	101.1	80.3	83.8	65.6	71.8	137.4	164.9
Payable gold concentrate Payable	(troy oz)	17,889	31,408	35,894	27,561	37,784	65,345	41,694
silver concentrate	(troy koz)	962	1,544	1,874	1,229	1,323	2,552	2,143

<sup>(1)</sup> Shown on a 100% basis. BHP Billiton interest in saleable production is 57.5%.

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Pampa Norte, Chile								
<u>Cerro</u>								
Colorado								
Material								
mined	(kt)	14,930	12,415	12,453	13,011	14,286	27,297	28,800
Ore milled	(kt)	4,856	4,012	4,375	3,241	3,342	6,583	9,559
Average								
copper grade	(%)	0.82%	0.84%	0.80%	0.68%	0.65%	0.66%	0.73%
Production								
Copper								
cathode								
(EW)	(kt)	18.8	20.0	24.8	17.1	12.1	29.2	32.5
Sales								
Copper								
cathode								
(EW)	(kt)	19.7	18.6	25.2	16.4	13.7	30.1	32.7
<u>Spence</u>								
Material								
mined	(kt)	21,593	22,549	21,124	23,638	22,635	46,273	44,515
Ore milled	(kt)	5,146	4,355	4,836	4,713	5,187	9,900	10,065
Average								
copper grade	(%)	1.30%	1.39%	1.22%	1.17%	1.19%	1.18%	1.35%
Production								
Copper								
cathode								
(EW)	(kt)	50.2	39.8	41.0	45.0	41.7	86.7	93.3
Sales								
Copper								
cathode								
(EW)	(kt)	56.1	38.4	40.9	41.2	41.5	82.7	94.3

# **Production and sales report**

			Qυ	arter ended			Year to		
		Dec	Mar	Jun	Sep	Dec	Dec	Dec	
		2015	2016	2016	2016	2016	2016	2015	
Copper (continued)									
Metals production	is payable me	etal unless of	herwise stat	ed.					
Antamina, Peru									
Material mined									
(100%)	(kt)	52,130	55,183	62,793	65,111	61,355	126,466	108,923	
Sulphide ore									
milled (100%)	(kt)	14,184	12,414	14,711	13,522	13,399	26,921	28,484	
Average head									
grades	(61)	0.020	1.000	0.000	0.046	0.046	0.046	0.000	
- Copper	(%)	0.92%	1.02%	0.90%	0.84%	0.84%	0.84%	0.90%	
- Zinc	(%)	0.55%	0.54%	0.33%	0.60%	0.83%	0.71%	0.67%	
Production									
Payable copper	(kt)	37.2	35.4	38.7	34.1	32.0	66.1	72.3	
Payable zinc	(t)	16,454	11,913	6,474	15,367	22,406	37,773	37,051	
Payable silver	(troy koz)	1,636	1,751	1,558	1,345	1,446	2,791	3,402	
Payable lead	(t)	1,024	1,193	645	1,146	1,220	2,366	1,881	
Payable							-0.5		
molybdenum	(t)	232	227	562	561	225	<b>786</b>	324	
Sales									
Payable copper	(kt)	42.9	29.3	42.4	32.8	33.0	65.8	73.7	
Payable zinc	(t)	20,423	12,097	3,035	16,043	22,334	38,377	39,170	
Payable silver	(troy koz)	2,048	1,331	2,055	1,277	1,388	2,665	3,570	
Payable lead	(t)	1,056	1,073	1,108	767	1,100	1,867	1,322	
Payable									
molybdenum	(t)	138	178	331	648	476	1,124	294	
Olympic Dam, Australia									
Material mined									
(1)	(kt)	2,372	2,210	1,993	2,204	1,887	4,091	4,729	
Ore milled	(kt)	2,767	2,174	2,031	2,279	2,116	4,395	5,494	
Average copper									
grade	(%)	2.22%	2.01%	2.20%	1.97%	2.00%	1.98%	1.93%	
Average uranium grade	(kg/t)	0.62	0.61	0.59	0.60	0.68	0.64	0.61	
	(Rg/t)	0.02	0.01	0.57	0.00	0.00	0.01	0.01	
Production									
Copper cathode	(1-4)	57 A	40.0	40.7	40.0	27.2	70.1	112.2	
(ER and EW)	(kt)	57.4	49.8	40.7	40.9	37.2	78.1	112.3	
Uranium oxide concentrate	(t)	1,352	961	876	916	1,060	1,976	2,526	

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Refined gold	(troy oz)	39,299	29,028	20,010	24,366	29,651	54,017	68,648
Refined silver	(troy koz)	265	174	232	163	188	351	511
Sales								
Copper cathode								
(ER and EW)	(kt)	57.3	49.4	43.9	37.5	41.2	<b>78.7</b>	109.8
Uranium oxide								
concentrate	(t)	1,013	1,261	778	1,085	883	1,968	1,690
Refined gold	(troy oz)	39,168	32,052	22,134	21,901	28,234	50,135	64,766
Refined silver	(troy koz)	265	198	201	184	203	387	478

(1) Material mined refers to run of mine ore mined and hoisted.

BHP Billiton Operational Review for the half year ended 31 December 2016

# Production and sales report

Sales

			(	Quarter end	Year to date						
		Dec	Mar	Jun	Sep	Dec	Dec	Dec			
		2015	2016	2016	2016	2016	2016	2015			
Iron Ore											
Iron ore production and sales are reported on a wet tonnes basis.											
Pilbara, Australia											
Production											
Newman	(kt)	17,003	15,817	15,115	18,008	17,751	35,759	35,009			
Area C Joint Venture	(kt)	11,723	11,002	11,911	12,384	12,179	24,563	23,886			
Yandi Joint Venture	(kt)	15,960	16,204	18,325	15,729	17,555	33,284	32,846			
Jimblebar (1)	(kt)	4,852	5,472	5,304	6,057	5,178	11,235	8,114			
Wheelarra	(kt)	5,757	4,562	4,971	5,409	7,386	12,795	13,016			
Total production	(kt)	55,295	53,057	55,626	57,587	60,049	117,636	112,871			
Total production (100%)	(kt)	64,197	61,454	64,508	66,681	69,730	136,411	131,358			
Sales											
Lump	(kt)	13,886	13,380	13,054	14,156	14,127	28,283	27,889			
Fines	(kt)	40,917	40,078	42,673	42,278	45,447	87,725	84,504			
	· /	,	,	,	,	,	,	,			
Total	(kt)	54,803	53,458	55,727	56,434	59,574	116,008	112,393			
							·				
Total sales (100%)	(kt)	63,625	61,927	64,617	65,368	69,196	134,564	130,802			
(1) Shown on a 100% basis. BHP Billiton interest in saleable production is 85%.											
Samarco, Brazil (1)											
Production	(kt)	1,665						5,404			

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BHP Billiton Operational Review for the half year ended 31 December 2016

(kt)

2,425

5,956

<sup>(1)</sup> Mining and processing operations remain suspended following the failure of the Fundão tailings dam and Santarém water dam on 5 November 2015.

# Production and sales report

			Qı	uarter ende	d		Year t	ear to date	
		Dec	Mar	Jun	Sep	Dec	Dec	Dec	
		2015	2016	2016	2016	2016	2016	2015	
Coal									
Coal production is reported on the	e basis	of saleabl	e product.						
Queensland Coal									
<b>Production</b> (1)									
<u>BMA</u>									
Blackwater	(kt)	1,861	1,756	2,206	1,981	1,855	3,836	3,664	
Goonyella	(kt)	1,941	2,478	2,709	2,123	2,204	4,327	3,809	
Peak Downs	(kt)	1,323	1,159	1,385	1,520	1,715	3,235	2,487	
Saraji	(kt)	1,000	1,046	1,123	1,238	1,307	2,545	2,037	
Gregory Joint Venture (2)	(kt)	609	13					1,316	
Daunia	(kt)	616	626	684	646	680	1,326	1,314	
Caval Ridge	(kt)	857	816	1,118	876	923	1,799	1,667	
Total BMA	(kt)	8,207	7,894	9,225	8,384	8,684	17,068	16,294	
BHP Billiton Mitsui Coal (3)									
South Walker Creek	(kt)	1,275	1,268	1,382	1,341	1,080	2,421	2,786	
Poitrel	(kt)	916	747	963	804	849	1,653	1,752	
Total BHP Billiton Mitsui Coal	(kt)	2,191	2,015	2,345	2,145	1,929	4,074	4,538	
		,	ĺ	,	,	,	,	,	
Total Queensland Coal	(kt)	10,398	9,909	11,570	10,529	10,613	21,142	20,832	
G 1									
Sales	(1.1)	7.640	7.040	0.050	7.040	<b>5</b> (50	14.000	14.655	
Coking coal	(kt)	7,642	7,348	8,059	7,240	7,658	14,898	14,657	
Weak coking coal	(kt)	2,695	2,681	3,196	2,799	2,659	5,458	5,941	
Thermal coal	(kt)	290	241	310	206	154	360	376	
Total	(kt)	10,627	10,270	11,565	10,245	10,471	20,716	20,974	

<sup>(1)</sup> Production figures include some thermal coal.

<sup>(3)</sup> Shown on a 100% basis. BHP Billiton interest in saleable production is 80%.

Haju, Indonesia (1)								
Production	(kt)	87	167	260	102	27	129	102
Sales - export	(kt)		148	239	117		117	

<sup>(2)</sup> Longwall mining at Crinum completed during the December 2015 quarter.

(1) Shown on 100% basis. BHP Billiton interest in saleable production is 75%. BHP Billiton completed the sale of IndoMet Coal on 14 October 2016.

New Mexico, USA							
Production							
Navajo Coal (1)	(kt)	1,403	694	632	451	451	2,673
San Juan Coal (2)	(kt)	1,229	418				2,635
Total	(kt)	2,632	1,112	632	451	451	5,308
Sales thermal coal - local utility		2,661	1,106	613	105	105	5,332

<sup>(1)</sup> The divestment of Navajo Coal was completed on 29 July 2016, with no further production reported by BHP Billiton. Management of Navajo Coal was transferred to Navajo Transitional Energy Company on 31 December 2016.

(2) BHP Billiton completed the sale of San Juan Mine on 31 January 2016.

NSW Energy Coal, Australia								
Production	(kt)	4,277	4,189	3,991	3,952	3,851	7,803	8,921
Sales								
Export thermal coal	(kt)	5,081	3,410	3,993	3,640	3,539	7,179	9,211
Inland thermal coal	(kt)	229	234	440	331	311	642	482
Total	(kt)	5,310	3,644	4,433	3,971	3,850	7,821	9,693
Cerrejón, Colombia	4	2 (20	2.510		2.020	• • • • •	<b></b>	
Production	(kt)	2,628	2,610	2,329	2,928	2,800	5,728	5,155
Sales thermal coal - export	(kt)	2,565	2,339	2,844	2,905	2,722	5,627	5,418

# **Production and sales report**

		Qua		Year to date			
	Dec	Mar	Jun	Sep	Dec	Dec	Dec
	2015	2016	2016	2016	2016	2016	2015
(kt)	0.2	0.3	0.3	0.3	0.2	0.5	0.9
(kt)	2.6	2.8	5.8	1.8	4.1	5.9	7.6
(kt)	12.4	16.9	17.3	16.7	17.8	34.5	28.8
(kt)	15.2	20.0	23.4	18.8	22.1	40.9	37.3
(kt)	0.2	0.3	0.3	0.3	0.2	0.5	0.9
(kt)	3.7	2.7	5.9	1.8	4.1	5.9	7.9
(kt)	12.1	17.8	17.4	16.5	17.8	34.3	27.7
` /							
(kt)	16.0	20.8	23.6	18.6	22.1	40.7	36.5
	(kt) (kt) (kt) (kt) (kt)	2015 (kt) 0.2 (kt) 2.6 (kt) 12.4 (kt) 15.2 (kt) 0.2 (kt) 3.7 (kt) 12.1	Dec Mar 2015 2016  (kt) 0.2 0.3 (kt) 2.6 2.8 (kt) 12.4 16.9  (kt) 15.2 20.0  (kt) 0.2 0.3 (kt) 3.7 2.7 (kt) 12.1 17.8	Dec Mar Jun 2015 2016 2016 (kt) 0.2 0.3 0.3 (kt) 2.6 2.8 5.8 (kt) 12.4 16.9 17.3 (kt) 15.2 20.0 23.4 (kt) 0.2 0.3 0.3 (kt) 3.7 2.7 5.9 (kt) 12.1 17.8 17.4	2015 2016 2016 2016  (kt) 0.2 0.3 0.3 0.3 (kt) 2.6 2.8 5.8 1.8 (kt) 12.4 16.9 17.3 16.7  (kt) 15.2 20.0 23.4 18.8  (kt) 0.2 0.3 0.3 0.3 (kt) 3.7 2.7 5.9 1.8 (kt) 12.1 17.8 17.4 16.5	Dec Mar Jun Sep Dec 2015 2016 2016 2016 2016 2016 2016 2016 2016	Dec Mar Jun Sep Dec Dec 2015 2016 2016 2016 2016 2016 2016 2016 2016

# **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

BHP Billiton Limited and BHP Billiton Plc

Date: January 25, 2017 By: /s/ Rachel Agnew

Name: Rachel Agnew Title: Company Secretary