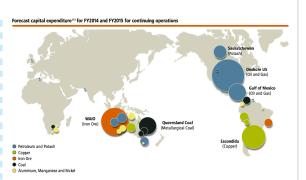


1	A B C D E	F	G H		
88 89	, 5 5 5 5				
90		BHP Billitor	BHP Billiton Group share of production Year ended 30 June		
91 92	Production volumes	2016	2015	2014	
93	Crude oil and condensate ('000 of barrels) Australia United States	20,304 65,560	21,397 71,626	23,645 53,964	
95	Other (5) Total crude oil and condensate	4,715 90,579	5,559 98,582	6,452 84,061	
96 97	Natural gas (billion cubic feet) Australia	325.7	294.8	287.5	
98	United States Other (5)	375.8 43.2	431.7 60.1	460.2 91.6	
99 100	Total natural gas Natural Gas Liquids ⁽¹⁾ ('000 of barrels)	744.7	786.6	839.3	
101 102	Australia United States	7,645 17,772	7,214 18,681	8,448 13,620	
103	Other (5) Total NGL (1)	43 25,460	101 25,996	22,086	
104	Total production of petroleum products (million barrels of oil equivalent) (2) Australia United States	82.23 145.96	77.74 162.26	80.01 144.28	
106	Other (5) Total production of petroleum products	11.95 240.14	15.68 255.68	21.74 246.03	
107 108	Average sales price Crude oil and condensate (US\$ per barrel)				
109 110	Australia United States	43.55 38.11	76.30 64.77 72.90	111.88 97.57	
111	Other (5) Total crude oil and condensate	41.00 39.48	72.90 67.68	108.13 102.47	
112 113	Natural gas (US\$ per thousand cubic feet) Australia	3.90	4.88	5.20	
114	United States Other (9)	2.16 3.20	3.27 4.00	4.10 3.92	
115 116	Total natural gas Natural Gas Liquids (US\$ per barrel) Australia	40.15	63.26	63.12	
117	Australia United States Other (9)	11.23 20.90	18.35 29.55	30.28 32.00	
118 119	Total NGL Total average production cost (US\$ per barrel of oil equivalent) (3) (6)	28.54	44.72	42.28	
120 121	Australia United States	6.12 6.08	7.08 7.73	8.18 7.80	
122	Other(5) Total average production cost	13.29 6.46	13.32 7.88	9.58 8.08	
123 124	BHP Billiton Form 20-F, 2016, page 266	·			
125					
126 127	6.2.2 Petroleum				
128 129	The table below details Petroleum's historical net crud				
130	geographic segment, for each of the three years ende after deduction of applicable royalties, fuel and flare. \	We have included	d in the table ave		
131 132	average sales prices for oil and condensate and natura	al gas for each of	those periods.		
133					
134 135	Production volumes				
136	Crude oil and condensate ('000 of barrels) Australia				
137 138	United States Other ⁽⁵⁾				
139 140	Total crude oil and condensate				
141	Natural gas (billion cubic feet) Australia				
142	United States Other (S)				
144	Total natural gas Natural gas liquids (1) (1000 of barrels)				
145 146	Australia United States				
147 148	Other ^(S) Total NGL ^(t)				
149	Total production of petroleum products (million barrels of	oil equivalent) (2)			
150 151	Australia United States				
152	Other ⁽⁵⁾ Total production of petroleum products				
153 154	BHP Billiton AnnRpt 2017, page 247.				
155 156					
157	2.3 Production 2.3.1 Petroleum				
158 159	The table below details Petroleum's historical net crude				
160	by geographic segment, for each of the three years end after deduction of applicable royalties, fuel and flare. W	e have included in	n the table avera	e nave show ge productio	
161 162	average sales prices for oil and condensate and natural				
163 164				ВНР	
165					
166 167	Production volumes Crude oil and condensate ('000 of barrels)				
168	Australia			25	
169 170	United States Other ⁽⁵⁾			38 7	
171	Total crude oil and condensate			72	
172 173	Natural gas (billion cubic feet)			-	
174	Australia United States			27 48	
175 176	Other (5)			10	
177	Total natural gas			87	
178 179	Natural Gas Liquids ⁽¹⁾ ('000 of barrels) Australia			7	
180	United States Other (5)			9	
181 182	Total NGL (1)			17	
183	Total production of petroleum products (million barrels of	f oil equivalent) (2)			
85	Australia United States			7 12	
86 87	Other (5)			2	
88	Total production of petroleum products (million barrels of			23	
39 90	BHP Billiton AnnRpt 2013				
91					



N 0

BHP AnnRpt 2013

6.2.2 Petroleum

The table below details Petroleum's historical net crude oil and condensate, natural gas and natural gas liquids production, primarily by geographic segment, for each of the three years ended 30 June 2017, 2016 and 2015. We have shown volumes of marketable production after deduction of applicable royalties, fuel and flare. We have included in the table average production costs per unit of production and average sales prices for oil and condensate and natural gas for each of those periods.

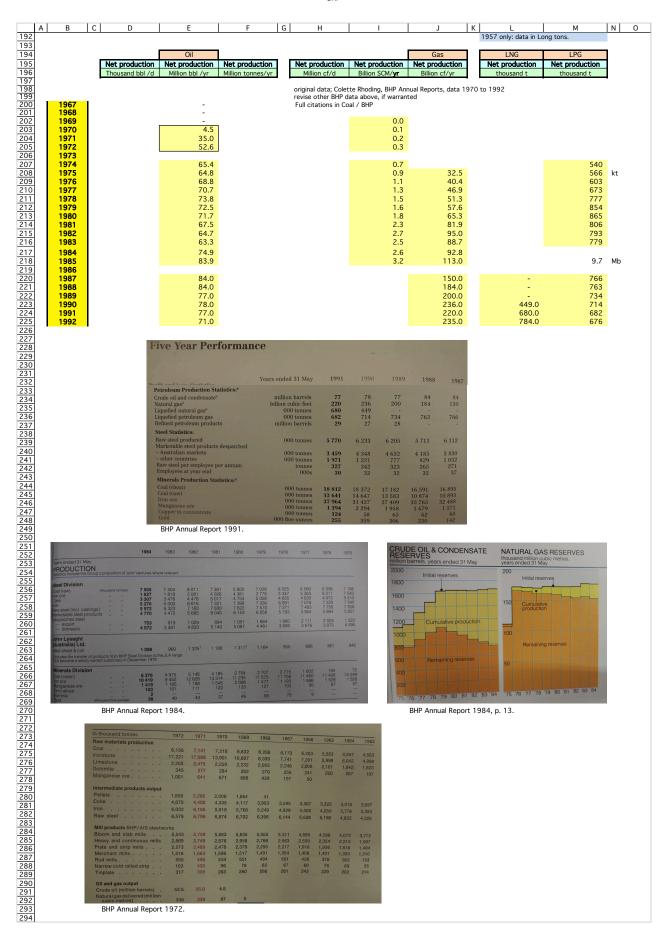
	BHP Grou Yea	BHP Group share of production Year ended 30 June		
	2017	2016	2015	
Production volumes				
Crude oil and condensate ('000 of barrels)				
Australia	18,658	20,307	21,397	
United States	52,877	65,558	71,626	
Other (5)	4,850	4,714	5,559	
Total crude oil and condensate	76,385	90,579	98,582	
Natural gas (billion cubic feet)				
Australia	345.7	325.6	294.8	
United States	285.3	375.9	431.7	
Other (5)	36.8	43.2	60.1	
Total natural gas	667.8	744.7	786.6	
Natural gas liquids (1) (1000 of barrels)				
Australia	7,423	7,646	7,214	
United States	13,152	17,771	18,681	
Other (5)	119	43	101	
Total NGL (1)	20,694	25,460	25,996	
Total production of petroleum products (million barrels of oil equivalent) (2)				
Australia	83.5	82.2	77.8	
United States	113.7	146.0	162.2	
Other ⁽⁵⁾	11.2	12.0	15.7	
Total production of petroleum products	208.4	240.2	255.7	

2.3 Production

2.3.1 Petroleum

The table below details Petroleum's historical net crude oil and condensate, natural gas and natural gas liquids production, primarily by geographic segment, for each of the three years ended 30 June 2013, 2012 and 2011. We have shown volumes of marketable production after edduction of applicable royalities, fuel and flare. We have included in the table average production costs per unit of production and average sales prices for oil and condensate and natural gas for each of those periods.

	BHP Billiton G Year	BHP Billiton Group share of production Year ended 30 June		
	2013	2012	2011	
Production volumes				
Crude oil and condensate ('000 of barrels)				
Australia	25,922	31,145	40,447	
United States	38,724	30,824	30,157	
Other (5)	7,866	9,232	9,987	
Total crude oil and condensate	72,512	71,201	80,591	
Natural gas (billion cubic feet)				
Australia	276.13	249.97	274.74	
United States	489.03	456.69	49.09	
Other (5)	109.11	115.60	81.23	
Total natural gas	874.27	822.26	405.06	
Natural Gas Liquids (1) ('000 of barrels)				
Australia	7,927	7,943	7,962	
United States	9,575	5,744	1,980	
Other ⁽⁵⁾	37	398	1,341	
Total NGL (1)	17,539	14,085	11,283	
Total production of petroleum products (million barrels of oil equivalent) (2)				
Australia	79.87	80.75	94.20	
United States	129.80	112.69	40.32	
Other (5)	26.09	28.90	24.86	
Total production of petroleum products (million barrels of oil equivalent) (2)	235.76	222.34	159.38	



Cell: 19

Comment: Rick Heede:

History (wikipedia: en.wikipedia.org/wiki/BHP_Billiton):

"BHP Billiton was created in 2001 through the merger of the Australian Broken Hill Proprietary Company Limited (BHP) and the Anglo-Dutch Billiton plc. The result is a dual-listed company. The Australian-registered BHP Billiton Limited, which is the majority partner, has a primary listing on the Australian Securities Exchange and is the largest company in Australia measured by market capitalisation. The UK-registered BHP Billiton Plc has a primary listing on the London Stock Exchange and is a constituent of the FTSE 100 Index. It had a market capitalisation of approximately £39.6 billion as of 23 December 2011, making it the 9th-largest company on the London Stock Exchange.

Broken Hill Proprietary Company: The Broken Hill Proprietary Company Limited, BHP Co. Ltd., BHP, also known as "the Big Australian", was incorporated in 1885, operating the silver and lead mine at Broken Hill in western New South Wales, Australia. The Broken Hill group floated on 10 August 1885. The first consignment of Broken Hill ore (48 tons, 5 cwt, 3grs) was smelted at the Intercolonial Smelting and Refining Company's works at Spotswood, Melbourne,

The resulting 35,605 ounces of silver raised a lot of interest when exhibited at the City of Melbourne Bank in Collins St. Some sceptics asserted the promoters were merely using silver from somewhere else, to ramp up the shares...Another shareholder, the dominating W.R. Wilson had had to lend [William Jamieson, General Manager] a new suit so he could take the first prospectus, printed at Silverton near Broken Hill on 20 June 1885, to Adelaide to start the float process.

The company began petroleum exploration in the 1960s with discoveries in Bass Strait, an activity which became an increasing focus. BHP began to diversify offshore in a variety of projects. One project was the Ok Tedi copper mine in Papua New Guinea, where the company was successfully sued by the indigenous inhabitants because of the environmental degradation caused by the mine operations. BHP had better success with the giant Escondida copper mine in Chile (57.5% owned) and the Ekati Diamond Mine in northern Canada.

Billiton: Billiton was a mining company whose origins stretch back to 29 September 1860, when the articles of association were approved by a meeting of shareholders in the Groot Keizerhof hotel in The Hague, the Netherlands. Two months later, the company acquired the mineral rights to the tin-rich Billiton (Belitung) and Bangka Islands in the Netherlands Indies archipelago, off the eastern coast of Sumatra. Billiton's initial business forays included tin and lead smelting in the Netherlands, followed in the 1940s by bauxite mining in Indonesia and Suriname. In 1970, Shell acquired Billiton and accelerated the scope of progress of this growth. The tin and lead smelter in Arnhem, the Netherlands, was shut down in the 1990s. In 1994, South Africa's Gencor Ltd. acquired the mining division of Billiton excluding the downstream metal division. Billiton was divested from Gencor in 1997. Bhp Billiton remains one of the largest companies listed on the Johannesburg Stock Exchange (JSE, sharecode bil) in South Africa by market capitalisation. In 1997, Billiton Pic became a constituent of the FTSE

Throughout the 1990s and beyond, Billiton Plc experienced considerable growth. Its portfolio included aluminium smelters in South Africa and Mozambique, nickel operations in Australia and Colombia, base metals mines in South America, Canada and South Africa, coal mines in Australia, Colombia and South Africa, as well as interests in operations in Brazil, Suriname, Australia (aluminium) and South Africa (titanium minerals and steel and ferroalloys).

In 2001 Billiton Plc merged with the Broken Hill Proprietary Company Limited (BHP) to form BHP Billiton.

2001 to 2011: In March 2005, BHP Billiton announced a US\$7.3 billion agreed bid for another mining company, WMC Resources, owners of the Olympic Dam copper, gold and uranium mine in South Australia, nickel operations in Western Australia and Queensland, and a fertiliser plant also in Queensland. The takeover achieved 90% acceptance on 17 June 2005, and 100% ownership was announced on 2 August 2005, achieved through compulsory acquisition of the last 10% of the shares.

On 8 November 2007, BHP Billiton announced it was seeking to purchase rival mining group Rio Tinto Group in an all-share deal. The initial offer of 3.4 shares of BHP Billiton stock for each share of Rio Tinto was rejected by the board of Rio Tinto for "significantly undervaluing" the company. It was unknown at the time whether BHP Billiton would attempt to purchase Rio Tinto through some form of hostile takeover; however, CEO Marius Kloppers met with many of Rio's shareholders following the announcement and reiterated that the offer for Rio was "compelling" and that BHP Billiton is very "patient". A formal hostile bid of 3.4 BHP Billiton shares for each Rio Tinto share was announced on 6 February 2008. The bid was withdrawn on 25 November 2008 due to a global recession.

In August 2010, BHP Billiton made a hostile takeover bid worth \$40 billion for the Potash Corporation of Saskatchewan. The bid came after BHP's first bid, made on 17 August, was rejected as being undervalued. This acquisition marked a major strategic move by BHP outside hard commodities and commenced the diversification of its business away from resources with high exposure to carbon price risk (coal, petroleum, iron ore). The takeover bid was opposed by the Government of Saskatchewan under Premier Brad Wall. On 3 November, Canadian Industry Minister Tony Clement announced the preliminary rejection of the deal under the Investment

Canada Act, giving BHP Billiton 30 days to refine their deal before a final decision was made.
2011 to present: On 22 February 2011 BHP announced that it paying cash \$4.75 billion to Chesapeake Energy Corp. for all of the company's Fayetteville shale assets which include 487,000 acres (1,970 km2) of mineral rights leases and 420 miles (680 km) of pipeline located in north central Arkansas in the United States. The wells on the mineral leases are currently producing about 415 million cubic feet of natural gas per day. BHP plans to spend \$800 million to \$1 billion a year over 10 years to develop the field and triple production. On 14 July 2011, BHP Billiton announced that it would acquire Petrohawk Energy of the United States for approximately \$12.1 billion in cash, considerably expanding its shale natural gas resources.

Cell: J35

Comment: Rick Heede:

Natural gas delivered for 1969-1970 from Broken Hill Proprietary Company Ltd (1971) Annual Report, p. 27. This is the first year gas prooduction is reported.

Cell: E36 Comment: Rick Heede:

Crude oil production for 1970 from Broken Hill Proprietary Company Ltd (1971) Annual Report, p. 27. This is the first year oil production is reported.

Cell: F37

Comment: Rick Heede:

Liquid petroleum gas and ethane production for 1974-81 from BHP (1982) Annual Report, p. tk.

Note: BHP separately reports liquid petroleum gas and ethane in tonnes. Thus column "F" notes LPG plus ethane. Column "E" reports crude oil production plus LGP + ethane converted to bbl.

Cell: E39

Comment: Rick Heede:

Crude oil pruduction for 1971-73 from Broken Hill Proprietary Company Ltd and subsidiaries (1974) Annual Report, p. tk.

Cell: 139

Comment: Rick Heede:

Natural gas delivered for 1971-73 from Broken Hill Proprietary Company Ltd and subsidiaries (1974) Annual Report, p. tk.

Cell: E47

Comment: Rick Heede:

Crude oil production for 1974-81 from RHP (1982) Annual Report in its

Note: BHP separately reports liquid petroleum gas and ethane in tonnes. Thus column "F" notes LPG plus ethane. Column "E" reports crude oil production plus LGP + ethane converted to bbl.

Cell: 147

Comment: Rick Heede:

Natural gas delivered in 1974-81 from BHP (1982) Annual Report, p. tk. Units in million cubic meters per year.

Cell: E48 Comment: Rick Heede

Oil production for 1982 and 1983 is not reported numerically, nor easily in graphic form, but as cumulative production over 1974 through 1983, showing cumulative production of ~1,720 million barrels by 1983. While this does not square with previously reported numeric data (see our column above), this is the only data we have for 82-83. Natural gas is not reported in any form for 1982-83. Note: the data shown in this column for 1970-1983 totals 1,092 million bbl, 628 million bbl less than BHP's cumulative production referenced above. Source: BHP (1984) Annual Report, bar graph of cumulative oil and condensate production 1974-1983, p. 15.

Cell: E51

Comment: Rick Heede:

Crude oil production for 1984 and 1985 from BHP (1989) Annual Report, p. 25. Note: we add LPG and ethane to crude oil production for both years:

1984: 75 million bbl plus (0.95 million tonnes LPG+ethane) = 81.9 million bbl;

1985; 84 million bbl plus (0.93 million tonnes LPG+ethane) = 90.8 million bbl

Cell: D52

Comment: Rick Heede:

Oil and condensate production and natural gas SALES (production is not reported) 1986-1990 from BHP (1991) AnnRpt 1990, p. 32.

Cell: F54

Comment: Rick Heede:

LPG and ethane production for 1984-1988 from BHP (1989) Annual Report, p. 25.

Cell: 154

Comment: Rick Heede:

Natural gas delivered for 1984-1988 from BHP (1989) Annual Report, p. 25.

Cell: D57

Comment: Rick Heede:

Oil and gas production 1991-1995 from BHP (1996) AnnRpt 1995, p. 21. Units in thousand bbl per day.

Cell: H57

Comment: Rick Heede:

Oil and gas production 1991-1995 from BHP (1996) AnnRpt 1995, p. 21. Units in million cf/d.

Cell: E65

Comment: Rick Heede:

Crude oil production for 1999 from BHP Annual report for 2001, financial addendum, p. 83, on the unaudited reserves statement.

Comment: Rick Heede:

Natural gas production in BHP (2002) Annual Report for 2001, Financial Addendum, unaudited reserves statement, p. 147. This reported data also shows 2000 production 258.8 Bcf (vs 262 Bcf reported in the main section of the same annual report, which is explained as a matter of timing of production vs sales.

Cell: E66

Comment: Rick Heede:

Crude oil production for 2000 and 2001 in BHP (2001) Annual Report for 2001, p. 36 shows oil and condensate production for 2000: crude and condensate 79.784 million bbl, LPG as 0.682 million tonnes, and gas as

2001: Crude and condensate 79 million bbl. LPG as 0.674 million tonnes, and gas at 261.83 Bcf.

Comment: Rick Heede:

The BHP (2001) Annual Report, p. 24 shows oil and condenstate production as 79 million bbl, LPG as 0.674 million tonnes, and gas at 261.83 Bcf. Page 36 shows gas production in 2000 at 238.63 Bcf.

Cell: E68

Comment: Rick Heede:

Annual oil and gas production 2002-2004 from BHP (2001-2004) Quarterly reports. BHP provides poor data on production in its annual reports (e.g., 2004 rpt has three years of oil and gas data, but one datum for coal (metallurgical only) for 2004: no production table is presented in the AnnRpt appendix.

Cell: M70

Comment: Rick Heede:

Energy Coal, AnnRpt2004, p. 20: operating mines in 2004: Queensland Coal, Illewarra Coal (Aus), Ingwe (RSA), Hunter Valley, PT Arutman (Indonesia), New Mexico Coal, Cerrejon (Colombia).

Percent production (energy coal), 4thQ 2004: RSA: 64.3 percent; heating value: 4470 - 7400 kcal/kg USA: 17.4 percent; heating value: 4800 - 5300 kcal/kg Australia: 10.2 percent; heating value: 6270 kcal/kg Colombia: 8.0 percent; heating value: 6200 kcal/kg.

Metallurgical coal: production at BMP, BHP Matsui, and Illawarra (all Australia?)

Calorific values from 6930 to 7650 kcal/kg.

Source: BHP (2005) AnnRpt 2004, pp. 180-187.

Cell: E71

Comment: Rick Heede:

Oil & Gas Journal OGJ100 2006 and 2008, oil and natural gas production.

Cell: 172 Comment: Rick Heede:

BHP Billiton Annual Rpt 2008, page 48, gas production in Bcf. OGJ data is nearly identical.

Cell: M74

Comment: Rick Heede:

BHP-Billiton Annual report 2008, p. 51 and 97. Metallurgical coal comprises ~30 percent of total, In 2008, metallurgical coal of 35.191 million tonnes, and energy coal of 80.868 million tonnes (70 percent of total).

Cell: E75

Comment: Rick Heede: Cell: D77

Annual report 2010, Crude Oil & condensate + NGLs. Page 50.

Comment: Rick Heede:

Cell: 177

BHP AnnRpt 2013, Table 2.3. Group share of production, crude and condensate PLUS NGLs. See Table 2.3 below

Comment: Rick Heede:

BHP AnnRpt 2013, Table 2.3. Group share of production.

Cell: D80 Comment: Rick Heede:

BHP Billiton AnnRpt 2015, page 95. Crude oil and condensate plus NGLs, 2014 and 2015.

Cell: 180

Comment: Rick Heede

CAI confirmed CDP data in BHP Billiton AnnRpt 2015, page 95. Production chiefly in Australia (295 Bcf) and USA (432 Bcf).

Paul Griffin: http://www.bhpbilliton.com/~/media/bhp/documents/investors/annual-reports/2015/bhpbillitonannualreport2015.pdf?la=en

Cell: D82

Comment: Rick Heede:

BHP Billiton Form 20-F for FY 2016, page 266, Crude oil and condensate 90,579 Mb, plus NGL 25,46 Mb, Of crude, 2,30 Mb in Australia, 65,6 Mbin USA, and 4,7 Mb in other (Pakistan, Algeria, Trinidad and Tobago, and UK,

Comment: Rick Heede:

BHP Billiton 20-F page 266: 744.7 Bcf, of which 376 Bcf USA and 326 Bcf Australia, and e43 Bcf other (algeria, Pakistan, Trinidad and Tobago, and UK.

Cell: D83

Comment: Rick Heede:

BHP Annual Report 2017, 296 pp.
Petroleum production, page 247: 76.385 Mb crude oil & condensate, plus 20.694 Mb NGL.

Of crude: 18.7 Mb in Australia, 52.9 Mb in US, and 4.9 Mb other[Algeria, Pakistan (divested 31Dec15), Trinidad and Tobago, and the United Kingdom.].

Cell: 183

Comment: Rick Heede:

BHP Annual Report 2017, 296 pp.

Natural gas production, page 247: 667.8 Bcf, of which 346 Bcf Australia, 285 Bcf US, and 37 Bcf other [Algeria, Pakistan (divested 31Dec15), Trinidad and Tobago, and the United Kingdom).

Cell: D84

Comment: Rick Heede:

BHP Operational Review for the Year Ended 30 June 2018, Excel Version, 18 July 2018. Crude Oil, Condensate, and NGL, 86.429 Mb.

Cell: 184
Comment: Rick Heede:
BHP Operational Review for the Year Ended 30 June 2018, Excel Version, 18 July 2018. Natural gas: 635.5 Bcf.