

BHP BILLITON LTD  
Form 6-K  
January 20, 2011

**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 20, 2011

**BHP BILLITON LIMITED**

(ABN 49 004 028 077)  
(Exact name of Registrant as specified in its charter)

VICTORIA, AUSTRALIA

**BHP BILLITON PLC**

(REG. NO. 3196209)  
(Exact name of Registrant as specified in its charter)

ENGLAND AND WALES

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(Jurisdiction of incorporation or organisation)

(Jurisdiction of incorporation or organisation)

180 LONSDALE STREET, MELBOURNE,

NEATHOUSE PLACE, VICTORIA, LONDON,

VICTORIA

UNITED KINGDOM

3000 AUSTRALIA

(Address of principal executive offices)

(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):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

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

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 20, 2011

By: /s/ Jane McAloon  
Name: Jane McAloon  
Title: Group Company Secretary

**NEWS RELEASE**

**Release Time** IMMEDIATE  
**Date** 20 January 2011  
**Number** 03/11

**BHP BILLITON EXPLORATION AND DEVELOPMENT REPORT****FOR THE QUARTER ENDED 31 DECEMBER 2010**

This report covers the Group's exploration and development activities for the quarter ended 31 December 2010. Unless otherwise stated, BHP Billiton's interest in the projects referred to in this report is 100 per cent and references to project schedules are based on calendar years.

**Development**

During the December 2010 quarter, a further US\$570 million (BHP Billiton share) of capital expenditure was approved to underpin continued growth in Western Australia Iron Ore's production profile. The investment expands on BHP Billiton's earlier pre-commitment of US\$1.73 billion (BHP Billiton share) announced in January 2010 and will facilitate the ongoing development of port, rail and Jimblebar mine infrastructure.

Industry wide cost pressure is being experienced across a broad range of projects and reflects stronger producer currencies, particularly in Australia, and underlying inflation on raw material and labour costs.

<b>Project And Ownership</b>	<b>Share Of Approved Capex US\$M</b>	<b>Initial Production Target Date</b>	<b>Production Capacity (100%)</b>	<b>Quarterly Progress</b>
Petroleum Projects				
Macedon				
(Australia)				
71.43%				
Gas	1,050	CY13	200 million cubic feet gas per day	On schedule and budget. Drilling campaign completed. The overall project is 14% complete.
Angostura Gas				
Phase II (Trinidad and Tobago)				
45%				
Gas	180	H1 CY11	280 million cubic feet gas per day	On schedule and budget. Topsides installation completed. Hook-up and commissioning progressing. The overall project is 98% complete.
Bass Strait Kipper				
(Australia)				
32.5% - 50%				
Gas/Gas Liquids	900	CY12(a)	10,000 bpd condensate and processing capacity of 80 million cubic feet gas per day	Schedule and budget review completed. Additional funding approved. First phase of drilling completed. Mercury encountered in reservoir with solution being managed separately. The overall project is 62% complete.
Bass Strait Turrum	1,350	CY13		

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(Australia)				11,000 bpd condensate and processing capacity of 200 million cubic feet gas per day	Schedule and budget review completed. Additional funding approved. The overall project is 54% complete.
50%					
Gas/Gas Liquids					
North West Shelf					
CWLH Life					
Extension (Australia)					On schedule and budget. Floating Production Storage and Offtake (FPSO) conversion continues. The overall project is 85% complete.
16.67%					
Oil	245	CY11		Replacement vessel with capacity of 60,000 bpd oil	

North West Shelf

North Rankin B Gas

Compression

(Australia)

16.67%

LNG	850	CY12	2,500 million cubic feet gas per day	On schedule and budget. The overall project is 62% complete.
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Minerals Projects

Worsley Efficiency &

Growth (Australia)

86%

Alumina	1,900	H1 CY11	1.1 million tpa of additional alumina	On schedule. Budget is under review. Construction is 46% complete. The overall project is 59% complete.
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Antamina Expansion

(Peru)

33.75%

Copper	435	Q4 CY11	Increases ore processing capacity to 130,000 tpd	On schedule and budget. Engineering is 91% complete. Construction is 32% complete. The overall project is 40% complete.
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Iron Ore

(Western Australia)

RGP5

85%

Iron Ore	4,800	H2 CY11	50 million tpa additional iron ore system capacity	Engineering is 99% complete. Construction is 89% complete. The overall project is 90% complete, based on original scope. The scope of the iron ore development sequence continues to be reviewed.
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MAC20 Project

(Australia)

100%

Energy Coal	260	H1 CY11	Increases saleable thermal coal production by approximately 3.5 million tpa	First production achieved ahead of schedule in October 2010. Ramp up underway. The overall project is 97% complete.
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(a) Facilities ready for first production pending resolution of mercury content.

**Minerals Exploration**

Grassroots exploration continued on copper targets in Chile and Zambia; nickel and copper targets in Australia; manganese targets in Gabon; and diamond targets in Canada. Exploration for iron ore, coal, bauxite, potash and manganese was undertaken in a number of regions including Australia, Canada, South America and Africa.

For the half year ended 31 December 2010, BHP Billiton spent US\$279 million on minerals exploration, of which US\$228 million was expensed.

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### Petroleum Exploration

Exploration and appraisal wells drilled during the quarter or in the process of drilling as at 31 December 2010.

Well	Location	BHP Billiton Equity	Status
Deep Blue-1	Green Canyon Gulf of Mexico	31.875%	Temporarily suspended
	GC 723	(Noble operator)	Hydrocarbons encountered
SE Longtom-1	Gippsland Basin Australia	50%	Plugged & abandoned
	VIC/RL09	(Exxon operator)	Hydrocarbons encountered
Yellowfin-1	Gippsland Basin Australia	50%	Plugged & abandoned
	VIC/RL6	(Exxon operator)	Dry hole

Petroleum exploration expenditure for the half year ended 31 December 2010 was US\$173 million, of which US\$135 million was expensed.

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Further information on BHP Billiton can be found on our Internet site: [www.bhpbilliton.com](http://www.bhpbilliton.com).

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Members of the BHP Billiton group which is headquartered in Australia