

BHP BILLITON LTD  
Form 6-K  
January 20, 2010

**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, 2010**

**BHP BILLITON LIMITED**

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

**BHP BILLITON PLC**

(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)

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180 LONSDALE STREET, MELBOURNE,

VICTORIA

3000 AUSTRALIA

(Address of principal executive offices)

NEATHOUSE PLACE, VICTORIA, LONDON,

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):

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: 20 January 2010

By: /s/ JANE McALOON  
Name: **Jane McAloon**  
Title: **Group Company Secretary**

**NEWS RELEASE**

**Release Time** IMMEDIATE  
**Date** 20 January 2010  
**Number** 03/10

**BHP BILLITON EXPLORATION AND DEVELOPMENT REPORT****FOR THE QUARTER ENDED 31 DECEMBER 2009**

This report covers the Group's exploration and development activities for the quarter ended 31 December 2009. Unless otherwise stated, BHP Billiton's interest in the projects referred to in this report is 100 percent and references to project schedules are based on calendar years.

**Development**

During the December 2009 quarter Western Australia Iron Ore Rapid Growth Project 4 (RGP4) achieved first production, ahead of schedule and within budget. Klipspruit expansion project (energy coal) in South Africa is essentially complete and has delivered first coal. These projects will not be reported in future Exploration and Development Reports.

The approval of the Antamina Expansion project (base metals) in Peru was also announced on 5 January 2010.

On 18 January 2010 BHP Billiton announced US\$267 million (BHP Billiton share) of pre-approval capital expenditure to accelerate the development of the Caval Ridge and Hay Point Coal Terminal Stage 3 Expansion (HPX3) projects. The funds will be used for feasibility studies, the procurement of long-lead time items and initial project activities.

On 20 January 2010 BHP Billiton announced approval for US\$240 million (BHP Billiton share 100%) of capital expenditure to support the development of the first stages of the Jansen Potash Project in Saskatchewan, Canada. This pre-approval expenditure will facilitate the early stage work for the establishment of the production and service shafts. The Jansen project is currently being designed to ultimately produce approximately 8 million tonnes per annum of agricultural grade potash, and represents BHP Billiton's first production of potash.

Future Exploration and Development Reports will disclose progress updates for all projects with US\$250 million or above of BHP Billiton share of capital investment, which aligns disclosures with internal approval thresholds. Development projects that are currently disclosed with an investment amount below this threshold will continue to be shown until first production is announced.

<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>
<b>Petroleum Projects</b>				
Pyrenees (Australia)	1,200	H1 CY10	96,000 barrels of oil and 60 million cubic feet gas per day	On schedule and budget. Floating Production Storage and Offtake (FPSO) arrived on location and commissioning continues. 9 wells completed (7 producers, 1 gas injector and 1 water injector).
71.43%				
Oil/Gas				
Angostura Gas Phase II (Trinidad and Tobago)	180	H1 CY11	280 million cubic feet gas per day	On schedule and budget. Jacket fabrication completed. Topsides fabrication continues.
45%				
Gas				
Bass Strait Kipper	500	CY11		

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(Australia)

32.5% - 50%

Gas/Gas Liquids

10,000 bpd condensate and  
processing capacity of 80 million  
cubic feet gas per day

Schedule and budget under review  
following advice from operator.  
West Tuna platform retrofit work  
continuing.

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Bass Strait Turrum (Australia)	625	CY11	11,000 bpd condensate and processing capacity of 200 million cubic feet gas per day	On schedule and budget. Platform fabrication continues.
50%				
Gas/Gas Liquids				
North West Shelf CWLH Life Extension (Australia)	245	CY11	Replacement vessel with capacity of 60,000 bpd oil	On schedule and budget. Floating Production Storage and Offtake (FPSO) conversion continues.
16.67%				
Oil				
North West Shelf North Rankin B Gas Compression (Australia)	850	CY12	2,500 million cubic feet gas per day	On schedule and budget. Jacket fabrication continuing ahead of schedule.
16.67%				
LNG				
<b>Minerals Projects</b>				
Worsley Efficiency & Growth (Australia)	1,900	H1 CY11	1.1 million tpa of additional alumina	On schedule and budget. Engineering is near complete, procurement and contracting activities are well advanced and construction is 11% complete.
86%				
Alumina				
Antamina Expansion (Peru)	435	Q4 CY11	Increases ore processing capacity to 130,000 tpd	Approval announced, see news release dated 5 January 2010.
33.75%				
Copper				
Iron Ore (Western Australia)	1,850	H1 CY10	26 million tpa of additional iron ore system capacity	First ore produced ahead of schedule. The official opening of the Newman Hub occurred in November 2009.
RGP4				
86.2%				
Iron Ore				
Iron Ore (Western Australia)	4,800	H2 CY11	50 million tpa additional iron ore system capacity	On schedule and budget. Engineering is over 85% complete, procurement and contracting activities are well

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RGP5			advanced. Construction has reached 25% complete.
85%			
Iron Ore			
Klipspruit (South Africa)	450 H2 CY09	Incremental 1.8 million tpa export thermal coal. Incremental 2.1 million tpa domestic thermal coal	On schedule and budget. Commissioning of coal processing plant is essentially complete. Relocation to new industrial and office complexes successful. Project is 99% complete.
100%			
Energy Coal			
Douglas-Middelburg Optimisation (South Africa)	975 Mid CY10	10 million tpa export thermal coal and 8.5 million tpa domestic thermal coal (sustains current output)	On schedule and budget. Construction activities are progressing well with installation of all mechanical equipment at the ROM Tip complete. Erection of the coal processing plant continues as scheduled. Project is 84% complete.
100%			
Energy Coal			

Newcastle Third Port Project (Australia)	390 CY10	30 million tpa export coal loading facility	On schedule and budget. Inbound concrete systems and structures completed with conveyor modules and substation installation progressing well. Project is 88% complete.
35.5%			
Energy Coal			
MAC20 Project (Australia)	260 H1 CY11	Increases saleable thermal coal production by approximately 3.5 million tpa	On schedule and budget. Coal handling and preparation plant construction commenced in September 2009. Project is 40% complete.
100%			

#### Energy Coal Minerals Exploration

BHP Billiton continues to identify and prioritise various exploration activities. All of the exploration activities are reviewed regularly to ensure that we are capturing value accretive opportunities for future development.

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

For the half year ended 31 December 2009, BHP Billiton spent US\$239 million on minerals exploration, of which US\$220 million was expensed.

#### Petroleum Exploration

Exploration and appraisal wells drilled during the quarter or in the process of drilling as at 31 December 2009.

Well	Location	BHP Billiton Equity	Status
Knotty Head-2	Green Canyon Gulf of Mexico	25% BHP Billiton	Drilling ahead
	GC 512	(Nexen operator)	
Dabakan-1	Sandakan Basin Philippines	25% BHP Billiton	Hydrocarbons encountered
	SC-56	(Exxon operator)	
Deep Blue-1	Green Canyon Gulf of Mexico	31.875% BHP Billiton	Drilling ahead
	GC 723	(Noble operator)	
Double Mountain-1	Green Canyon Gulf of Mexico	70% BHP Billiton	Drilling ahead
	GC 555	(operator)	
Wolverine-1	Laurentian Basin Canada	45% BHP Billiton	Drilling ahead
	E.L. 1087R	(CoP operator)	
SE Remora-1	Gippsland Basin Australia	50% BHP Billiton	Drilling ahead
	VIC/RL4	(Exxon operator)	



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Consistent with BHP Billiton's growth strategy, the total forecast exploration expenditure for the 2010 financial year has increased by US\$200 million to US\$800 million. This is primarily due to increased drilling activity.

Petroleum exploration expenditure for the half year ended 31 December 2009 was US\$200 million, of which US\$75 million was expensed.

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

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