

BHP BILLITON LTD  
Form 6-K  
July 24, 2008

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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

July 24, 2008

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

VICTORIA, AUSTRALIA  
(Jurisdiction of incorporation or  
organisation)

180 LONSDALE STREET,  
MELBOURNE, VICTORIA  
3000 AUSTRALIA  
(Address of principal executive offices)

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

ENGLAND AND WALES  
(Jurisdiction of incorporation or  
organisation)

NEATHOUSE PLACE, VICTORIA,  
LONDON,  
UNITED KINGDOM  
(Address of principal executive offices)

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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 [x] No

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

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## NEWS RELEASE

Release Time IMMEDIATE  
 Date 23 July 2008  
 Number 27/08

BHP BILLITON QUARTERLY REPORT ON  
 EXPLORATION AND DEVELOPMENT ACTIVITIES  
 QUARTER ENDED 30 JUNE 2008

This report covers the Company's exploration and development activities for the quarter ended 30 June 2008. 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

First production was successfully achieved at the Samarco Third Pellet Plant (iron ore) and Cliffs (nickel) was handed over to operations during the quarter ended 30 June 2008. In addition, Neptune (petroleum) delivered first production on 6 July 2008. These projects will not be reported in future Exploration and Development Reports.

During the quarter Worsley Efficiency & Growth (alumina) was sanctioned.

Petroleum Projects				
Neptune (US) 35% Oil/Gas	405	Mid CY08	50,000 barrels of oil and 50 million cubic feet gas per day	First production announced, see News Release dated 6 July 2008. Six of seven wells have been completed with the operation now ramping up towards full oil and gas production.
North West Shelf Angel (Australia) 16.67% Oil/Gas	200	End CY08	800 million cubic feet gas per day and 50,000 bpd condensate	Ahead of schedule and budget. Offshore hook up complete and final commissioning is in progress.
North West Shelf Train 5 (Australia) 16.67% LNG	350	Late CY08	LNG processing capacity of 4.2 million tpa	On schedule and budget. On-site commissioning continued.



Shenzi (US) 44% Oil/Gas	1,940Mid CY09	100,000 barrels of oil and 50 million cubic feet gas per day	On schedule and budget. Hull installed and topsides successfully mated to hull as of 11 July 2008. Two wells completed, third well being drilled.
Pyrenees (Australia) 71.43% Oil/Gas	1,2001H CY10	96,000 barrels of oil and 60 million cubic feet gas per day	On schedule and budget. Floating Production Storage and Offtake (FPSO) conversion continues.
Bass Strait Kipper (Australia) 32.5% - 50% Gas/Gas Liquids	500CY11	10,000 bpd condensate and processing capacity of 80 million cubic feet gas per day	On schedule and budget. Fabrication of pipeline and umbilical tubes complete. Engineering, procurement, construction and installation contract executed.
North West Shelf North Rankin B Gas Compression (Australia) 16.67% LNG	850CY12	2,500 million cubic feet gas per day	On schedule and budget. Detailed engineering progressing. Long lead steel procurement continued.
<b>Minerals Projects</b>			
Alumar – Refinery Expansion (Brazil) 36% Alumina	725Q2 CY09	2 million tpa of alumina	Schedule and budget under review following advice from Operator. Engineering has been completed and procurement is well advanced. Construction is 60% complete and project is overall 80% complete.
Worsley Efficiency & Growth (Australia) 86% Alumina	1,9001H CY11	1.1 million tpa of alumina	Approval announced, see News Release dated 1 May 2008.  Engineering and procurement underway. Long lead items ordered. Early construction activities started.
Cliffs (Australia) 100%	1391H CY08	360,000 tpa nickel ore	On schedule and budget. The mining activity was transitioned to

Nickel

the operations on 30 June 2008. The surface and minor underground capital works will continue until October 2008.

Iron Ore (Western  
Australia)  
RGP4  
86.2%  
Iron Ore

1,8501H CY10

26 million tpa  
additional iron  
ore system  
capacity

On schedule and budget in local currency. Engineering is now over 85% complete and construction over 40% complete.

Samarco Third Pellet Plant (Brazil) 50% Iron Ore	5901H CY08	7.6 million tpa additional iron ore capacity	First production achieved during April 2008. Pelletising plant is operating at design capacity and the concentration plant is in ramp up.
Gemco (Australia) 60% Manganese	1101H CY09	1 million tpa of additional manganese concentrate	On schedule and budget. Project civil construction is underway and procurement activities progressing well. Project is 41% complete.
Newcastle Third Port Project (Australia) 35.5% Energy Coal	390End CY10	Export coal loading facility 30 million tpa	On schedule and budget. Engineering is now 95% complete. Construction and dredging commenced with procurement well advanced.
Klipspruit (South Africa) 100% Energy Coal	4502H CY09	Incremental 1.8 million tpa export thermal coal	On schedule and budget. Engineering significantly advanced with civil works across site well underway and the construction of the processing plant over 50% complete.
Douglas-Middelburg Optimisation (South Africa) 100% Energy Coal	975Mid CY10	10 million tpa export thermal coal and 8.5 million tpa domestic thermal coal (sustains current output)	On schedule and budget. Civil and earthworks contractors have been mobilised with procurement of long lead items placed.

## MINERALS EXPLORATION

BHP Billiton continued to pursue global exploration opportunities for key commodities of interest utilising both in-house capabilities and partnerships.

Grassroots exploration continued on copper targets in Australia, Chile and the Democratic Republic of Congo (DRC); on nickel targets in Australia, Russia, Colombia and Africa and on diamond targets in the DRC. Exploration for iron ore, coal and bauxite was undertaken in a number of regions including Australia, South America, Russia and West

Africa.

For the year ended 30 June 2008, BHP Billiton spent US\$658 million on minerals exploration, of which US\$547 million was expensed.

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In addition to the above grassroots activities, the following updates are provided:

#### Pampa Escondida

The Escondida resource base presents numerous options for delivering production growth in future years that are currently under study. These studies, including the addition of a third concentrator, are at various stages of development, and are focused on increasing copper production in the face of declining ore grades, either through improved copper recovery or increased production rates.

Extensive exploration of the Escondida mining lease has been underway in recent years; with the knowledge that additional reserves will enhance the investment in further concentrator capacity. Exciting results are being obtained in several areas close to existing infrastructure and processing facilities, including the new Pampa Escondida prospect. Drilling to date suggests that Pampa Escondida contains at least 1 billion metric tonnes of porphyry style mineralisation.<sup>1, 2</sup>

In order to properly and rapidly evaluate identified exploration targets, decisions were recently made to aggressively expand the exploration and development drilling program. The drilling program will be ramping up from 11 drill rigs that completed 94,351 metres in the 12 months ended 30 June 2008 to 25 drill rigs estimated to complete 320,000 metres in the 12 months ending 30 June 2009, maintaining the capability of completing over 300,000 metres annually. Over the next five years, Escondida will invest an estimated US\$327 million (US\$188 million BHP Billiton share) in drilling, assaying, and metallurgical testwork across the entire mining lease. This work will be directed at the delineation and expansion of three specific projects (including Pampa Escondida), along with the continued exploration of additional targets based on new geological models of mineralisation from the recent work.

#### Iron Ore and Manganese Resources and Reserves

During the quarter, increases in iron ore and manganese resources and reserves were announced, incorporating:

- A 46% increase in the Mineral Resource and a 23% increase in the Ore Reserve at Western Australia Iron Ore;
- An 11% increase in the Mineral Resource and a 30% increase in the Ore Reserve at Samarco Mineracao; and
- An 82% increase in the Mineral Resource at Samancor Manganese. Work is in progress to incorporate the new Manganese Resource and estimate its impact on Manganese Reserves.

See News Release dated 24 June 2008 for further information including Competent Persons statements.

1 The minimum value on the range of potential mineralisation in the Pampa Escondida project is based on probabilistic and deterministic assessment of limited drill results by experts with knowledge of the data and mineral deposits of similar characteristics. The target definition is conceptual in nature, there has not been sufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource.

2 Competent persons for Escondida: R Preece (FAusIMM) and J McCluskey (MAusIMM) are full time employees of BHP Billiton and have the required qualifications and experience, and are Competent Persons for Pampa Escondida, which is reported under Section 18 of the JORC code. R. Preece and J. McCluskey verify that this report is based on and fairly reflects the information in the supporting documentation relating to Exploration Results.

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## PETROLEUM EXPLORATION

Exploration and appraisal wells drilled during the quarter or in the process of drilling as at 30 June 2008.

Thebe-2	Exmouth Plateau Western Australia WA-346-P	100% BHP Billiton and operator	Hydrocarbons encountered. Plugged and abandoned.
Snarf-1	Browse Basin Western Australia WA-275-P	20% BHP Billiton (Woodside operator)	Dry hole. Plugged and abandoned.

Petroleum exploration expenditure for the year ended 30 June 2008 was US\$692 million, of which US\$312 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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Cautionary Note to US Investors – The SEC generally permits mining companies in their filings with the SEC to disclose only those mineral deposits that the company can economically and legally extract. Certain terms in this release, including “resources” and “porphyry style mineralisation”, would not generally be permitted in an SEC filing. The material denoted by such terms is not proven or probable Reserves as such terms are used in the SEC's Industry Guide 7, and there can be no assurance that BHP Billiton will be able to convert such material to proven or probable Reserves or extract such material economically. BHP Billiton urges investors to refer to its Annual Report on Form 20-F for the fiscal year ended June 30, 2007 (and, with respect to iron ore Reserves, the BHP Billiton Reserves News Release, dated 24 June 2008 and available at [bhpbilliton.com](http://bhpbilliton.com) and [www.sec.gov](http://www.sec.gov)), for its most recent statement of

mineral Reserves calculated in accordance with Industry Guide 7.

BHP Billiton Limited ABN 49 004 028 077	BHP Billiton Plc Registration number 3196209
Registered in Australia	Registered in England and Wales
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A member of the BHP Billiton group which is headquartered in Australia

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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: 24 July 2008

By: Jane McAloon

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Name: Jane McAloon

Title: Group Company Secretary