

### Structured Product Details

Name	Yield Optimization Note with Contingent Protection linked to BHP Billiton, Ltd.	
Issue Size Issue Price Term Annualized Co	\$10.71 million \$85.10 12 Months upon 10.46%	
Pricing Date Issue Date Valuation Date Maturity Date	November 24, 2010 November 30, 2010 November 23, 2011 November 30, 2011	
Issuer CDS Rate Swap Rate	Barclays 69.74 bps 0.77%	
Reference Asse	t BHP Billiton, Ltd.'s stock	
Initial Level Conversion 1 Trigger Pric Dividend Ra Implied Vola Delta <sup>1</sup>	te \$68.08 te 2.02%	
Fair Price at Ise Realized Retur	+	
CUSIP SEC Link data/	06740P742 www.sec.gov/Archives/edgar/ 312070/000119312510270249/d424b2.htm	

Structured Products Research Report

Report Prepared On: 10/26/12

# Yield Optimization Note with Contingent Protection linked to BHP Billiton, Ltd.

## Description

Barclays issued \$10.71 million of Yield Optimization Note with Contingent Protection linked to BHP Billiton, Ltd. on November 30, 2010 at \$85.10 per note.

These notes are Barclays-branded single observation reverse convertibles. Single observation reverse convertibles pay periodic interest coupons and at maturity convert into shares of the reference security if the price of the reference security at the notes' maturity is below the trigger price determined when the notes were issued.

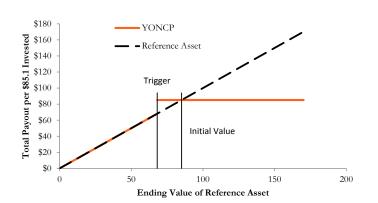
These 12-month notes pay monthly coupons at an annualized rate of 10.46%. In addition to the monthly coupons, on November 30, 2011 investors will receive the market value of one share of BHP Billiton, Ltd.'s stock if on November 23, 2011 BHP Billiton, Ltd.'s stock closes below \$68.08 (80% of BHP Billiton, Ltd.'s stock price on November 24, 2010). Otherwise, investors will receive the \$85.10 face value per note.

## Valuation

This Barclays single observation reverse convertible linked to BHP Billiton, Ltd.'s stock can be valued as a combination of a note from Barclays and a short European out-of-the-money cash-or-nothing put option, and a short European out-of-the-money put option on BHP Billiton, Ltd.'s stock. For reasonable valuation inputs this note was worth \$82.24 per \$85.10 when it was issued on November 30, 2010 because investors were effectively being paid only \$7.61 for giving Barclays options which were worth \$10.47.

There is no active secondary market for most structured products. Structured products, including this note, therefore are much less liquid than simple stocks, bonds, notes and mutual funds. Investors are likely to receive less than the structured product's estimated market value if they try to sell the structured product prior to maturity. Our valuations do not incorporate this relative lack of liquidity and therefore should be considered an upper bound on the value of the structured product.

#### Payoff Curve at Maturity



The payoff diagram shows the final payoff of this note given BHP Billiton, Ltd.'s stock price (horizontal axis). For comparison, the dashed line shows the payoff if you invested in BHP Billiton, Ltd.'s stock directly.

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#### **Related Research**

#### **Research Papers:**

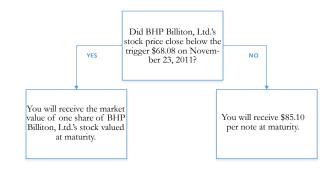
www.slcg.com/research.php

- "Are Structured Products Suitable for Retail Investors?" December 2006.
- "Structured Products in the Aftermath of Lehman Brothers," November 2009.
- "What TiVo and JP Morgan Teach Us about Reverse Convertibles," June 2010.

#### Principal Payback Table

BHP Billiton, Ltd.'s Stock	Note Payoff
\$0.00	\$0.00
\$8.51	\$8.51
\$17.02	\$17.02
\$25.53	\$25.53
\$34.04	\$34.04
\$42.55	\$42.55
\$51.06	\$51.06
\$59.57	\$59.57
\$68.08	\$85.10
\$76.59	\$85.10
\$85.10	\$85.10
\$93.61	\$85.10
\$102.12	\$85.10
\$110.63	\$85.10
\$119.14	\$85.10
\$127.65	\$85.10

#### Maturity Payoff Diagram



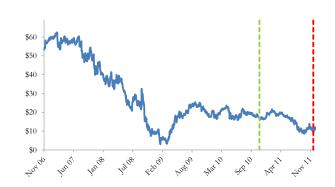
The contingent payoffs of this Yield Optimization Note with Contingent Protection.

### Analysis

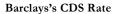
This single observation reverse convertible's 10.46% coupon rate is higher than the yield Barclays paid on its straight debt but, in addition to Barclays's credit risk, investors bear the risk that they will receive shares of BHP Billiton, Ltd.'s stock when those shares are worth substantially less than the face value of the note at maturity.

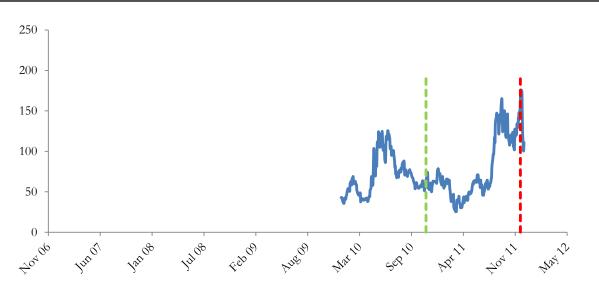
Investors purchasing these reverse convertibles effectively sell put options to Barclays and post the note's issue price as collateral to secure satisfaction of the investors' obligations under the option contracts. Barclays pays investors a "coupon" that is part payment for the put options and part interest on the investors' posted collateral. This reverse convertible is fairly priced if and only if the difference between the reverse convertible's "coupon rate" and interest paid on Barclays's straight debt equals the value of the put option investors are giving to Barclays. Whether this reverse convertible is suitable or not is identically equivalent to whether selling put options on the reference stock at the option premium being paid by Barclays was suitable for the investor.

#### **Barclays's Stock Price**

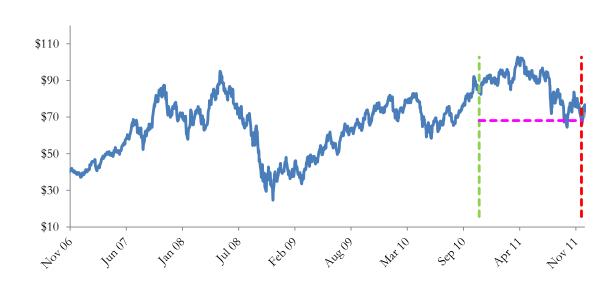


The graph above shows the adjusted closing price of the issuer Barclays for the past several years. The stock price of the issuer is an indication of the financial strength of Barclays. The adjusted price shown above incorporates any stock split, reverse stock split, etc.





Credit default swap (CDS) rates are the market price that investors require to bear credit risk of an issuer such as Barclays. CDS rates are usually given in basis points (bps). One basis point equals 0.01%. Higher CDS rates reflect higher perceived credit risk, higher required yields, and therefore lower market value of Barclays's debt, including outstanding Yield Optimization Note with Contingent Protection. Fluctuations in Barclays's CDS rate impact the market value of the notes in the secondary market.

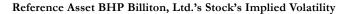


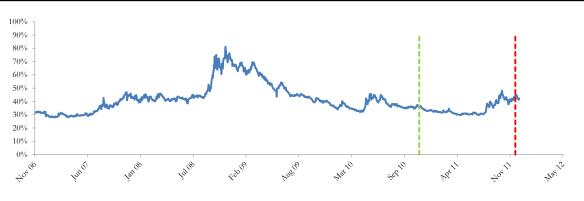
#### BHP Billiton, Ltd.'s Stock Price

The graph above shows the historical levels of BHP Billiton, Ltd.'s stock for the past several years. The final payoff of this note is determined by BHP Billiton, Ltd.'s stock price at maturity. Higher fluctuations in BHP Billiton, Ltd.'s stock price correspond to a greater uncertainty in the final payout of this Yield Optimization Note with Contingent Protection.

#### **Realized Payoff**

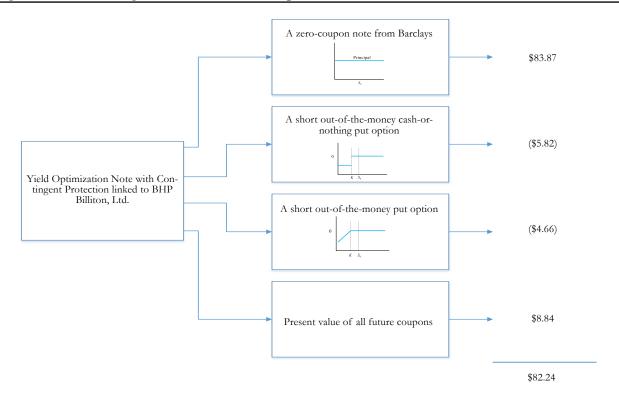
This note matured on November 30, 2011 and investors received \$66.93 per note (or equal to the value of one share of BHP Billiton, Ltd. stock's closing price on November 23, 2011).





The annualized implied volatility of BHP Billiton, Ltd.'s stock on November 24, 2010 was 35.92%, meaning that options contracts on BHP Billiton, Ltd.'s stock were trading at prices that reflect an expected annual volatility of 35.92%. The bigher the implied volatility, the larger the expected fluctuations of BHP Billiton, Ltd.'s stock price and of the Note's market value during the life of the Notes.

#### Decomposition of this Yield Optimization Note with Contingent Protection



This note can be decomposed into different components, and each component can be valued separately. The chart above shows the value of each component of this Yield Optimization Note with Contingent Protection.

Delta measures the sensitivity of the price of the note to the BHP Billiton, Ltd's stock price on November 24, 2010.
CDS rates can be considered a measure of the probability that an issuer will default over a certain period of time and the likely loss given a default. The lower the CDS rate, the lower the default probability. CDS rate is given in basis points (1 basis point equals 0.01%), and is considered as a market premium, on top of the risk-free rate, that investors require to insure against a potential default.
Fair price evaluation is based on the Black-Scholes model of the BHP Billiton, Ltd's stock on November 24, 2010.
Calculated payout at maturity is only an approximation, and may differ from actual payouts at maturity.
Our evaluation does not include any transaction fees, broker commissions, or liquidity discounts on the notes.

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