

Report Prepared On: 12/05/12

Structured Product Details

Name	Reverse Convertible Notes linked to Arch Coal, Inc.
Issue Size	\$926,000
Issue Price	\$1,000
Term	3 Months
Annualized Coupon	18.50%
Pricing Date	October 27, 2009
Issue Date	October 30, 2009
Valuation Date	January 27, 2010
Maturity Date	February 1, 2010
Issuer	UBS
CDS Rate	50.08 bps
Swap Rate	0.28%
Reference Asset	Arch Coal, Inc.'s stock
Initial Level	\$23.17
Trigger Price	\$17.38
Conversion Price	\$23.17
Dividend Rate	1.54%
Implied Volatility	51.90%
Delta¹	0.46
Fair Price at Issue	\$964.83
Realized Return	19.52%
CUSIP	90261JEN9
SEC Link	www.sec.gov/Archives/edgar/data/1114446/000119312509215974/d424b2.htm

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.

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Reverse Convertible Notes linked to Arch Coal, Inc.

Description

UBS issued \$926,000 of Reverse Convertible Notes linked to Arch Coal, Inc. on October 30, 2009 at \$1,000 per note.

These notes are UBS-branded reverse convertibles. Reverse convertibles pay periodic interest coupons and at maturity convert into shares of the reference security if the price of the reference stock at the notes' maturity is below its price when the notes were issued and had closed below a specified "trigger" during the term of the notes.

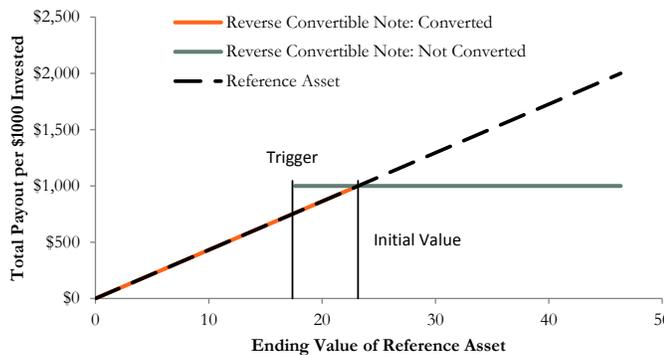
These 3-month notes pay monthly coupons at an annualized rate of 18.50%. In addition to the monthly coupons, at maturity on February 1, 2010 investors will receive the market value of 43.16 shares of Arch Coal, Inc.'s stock if on January 27, 2010 Arch Coal, Inc.'s stock price closes below \$23.17 (Arch Coal, Inc.'s stock price on October 27, 2009) and had ever closed at or below \$17.38 during the term of the notes. Otherwise, investors will receive the \$1,000 face value per note.

Valuation

This UBS reverse convertible linked to Arch Coal, Inc.'s stock can be valued as a combination of a note from UBS and a short down-and-in, at-the-money put option on Arch Coal, Inc.'s stock. For reasonable valuation inputs this note was worth \$964.83 per \$1,000 when it was issued on October 30, 2009 because investors were effectively being paid only \$44.24 for giving UBS an option which was worth \$79.41.

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

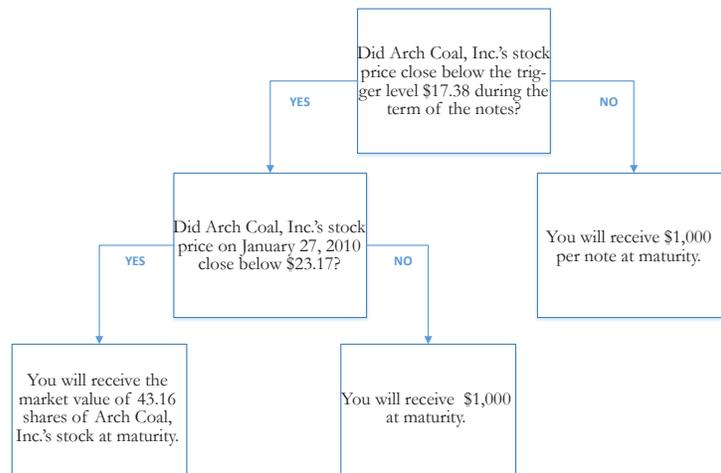


The payoff diagram shows the final payoff of this note given Arch Coal, Inc.'s stock price (horizontal axis). For comparison, the dashed line shows the payoff if you invested in Arch Coal, Inc.'s stock directly.

Principal Payback Table

Arch Coal, Inc.'s Stock	Converted Note Payoff	Non-Converted Note Payoff
\$0.00	\$0.00	
\$2.32	\$100.00	
\$4.63	\$200.00	
\$6.95	\$300.00	
\$9.27	\$400.00	
\$11.59	\$500.00	
\$13.90	\$600.00	
\$16.22	\$700.00	
\$18.54	\$800.00	\$1,000.00
\$20.85	\$900.00	\$1,000.00
\$23.17	\$1,000.00	\$1,000.00
\$25.49	\$1,000.00	\$1,000.00
\$27.80	\$1,000.00	\$1,000.00
\$30.12	\$1,000.00	\$1,000.00
\$32.44	\$1,000.00	\$1,000.00
\$34.76	\$1,000.00	\$1,000.00

Maturity Payoff Diagram



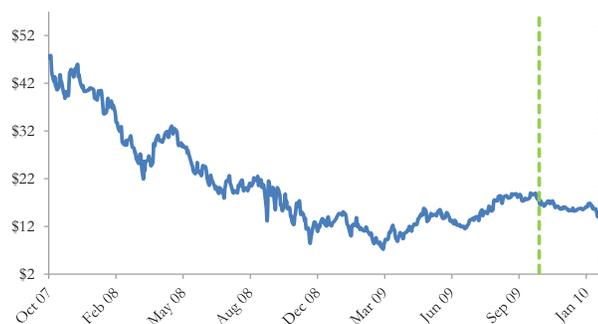
The contingent payoffs of this Reverse Convertible Note.

Analysis

This reverse convertible's 18.50% coupon rate is higher than the yield UBS paid on its straight debt but, in addition to UBS's credit risk, investors bear the risk that they will receive shares of Arch Coal, Inc.'s stock when they are worth substantially less than the face value of the note at maturity.

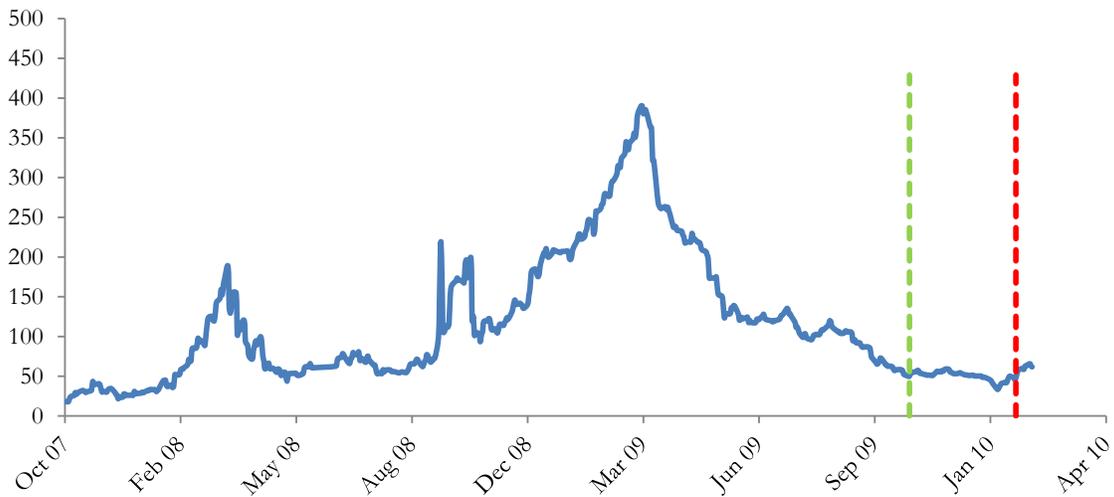
Investors purchasing reverse convertibles effectively sell put options to UBS and post the note's issue price as collateral to secure satisfaction of the investors' obligations under the option contracts. UBS pays investors a "coupon" that is part payment for the put options and part interest on the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

UBS's Stock Price



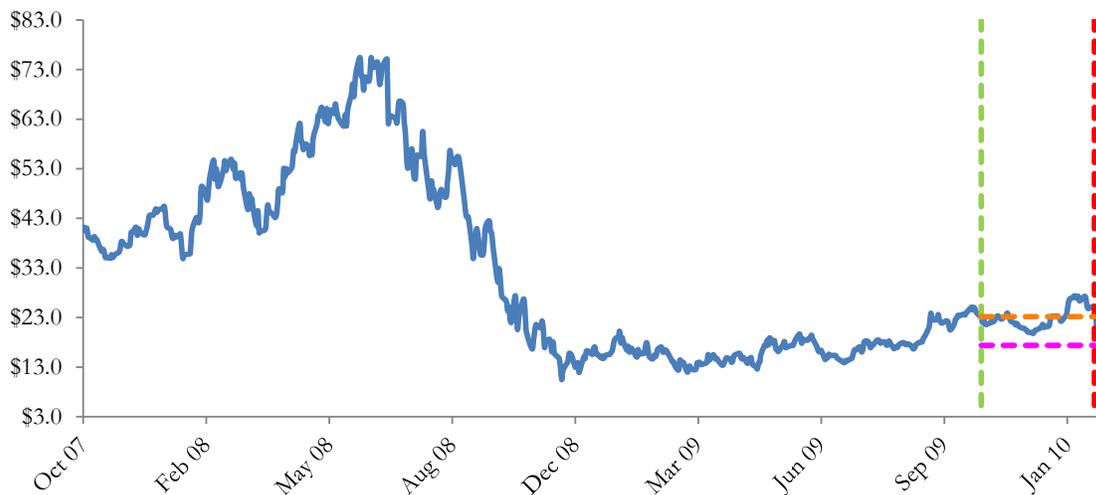
The graph above shows the adjusted closing price of the issuer UBS for the past several years. The stock price of the issuer is an indication of the financial strength of UBS. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

UBS's CDS Rate



Credit default swap (CDS) rates are the market price that investors require to bear credit risk of an issuer such as UBS. 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 UBS's debt, including outstanding Reverse Convertible Note. Fluctuations in UBS's CDS rate impact the market value of the notes in the secondary market.

Arch Coal, Inc.'s Stock Price

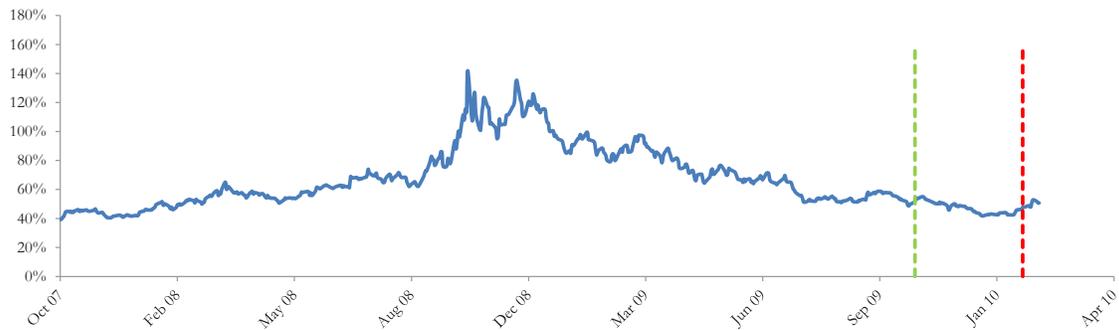


The graph above shows the historical levels of Arch Coal, Inc.'s stock for the past several years. The final payoff of this note is determined by Arch Coal, Inc.'s stock price at maturity. Higher fluctuations in Arch Coal, Inc.'s stock price correspond to a greater uncertainty in the final payout of this Reverse Convertible Note.

Realized Payoff

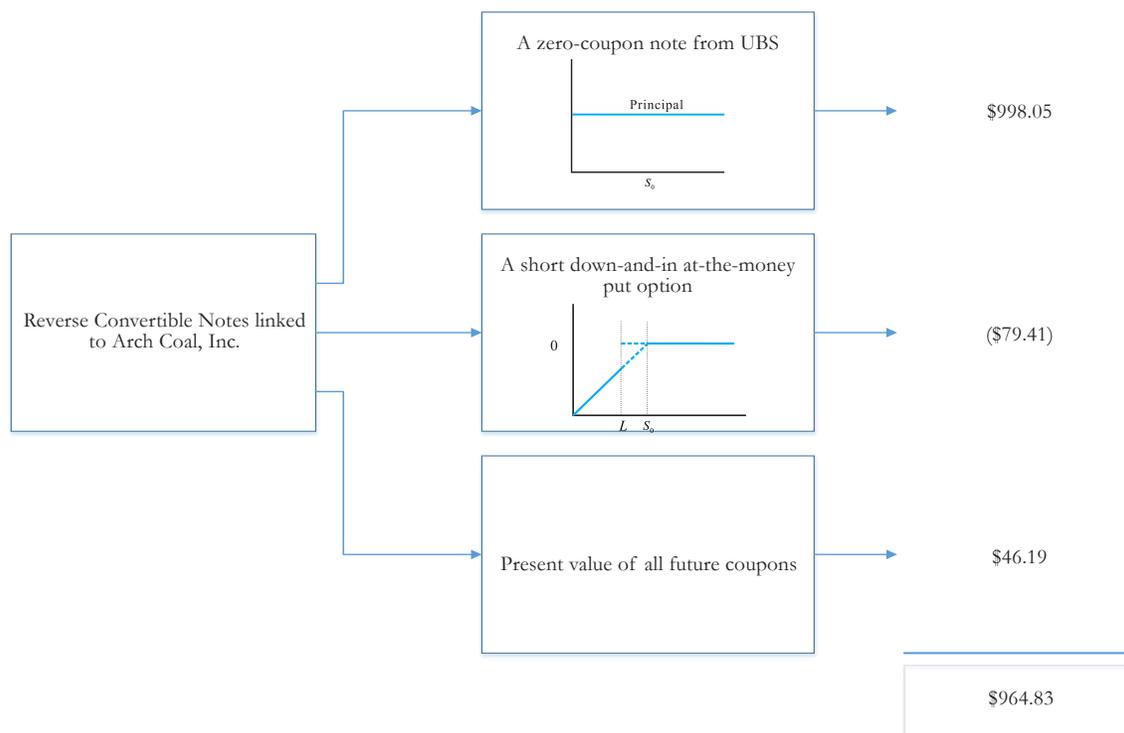
This note matured on February 1, 2010 and investors received \$1,000.00 per note.

Reference Asset Arch Coal, Inc.'s Stock's Implied Volatility



The annualized implied volatility of Arch Coal, Inc.'s stock on October 27, 2009 was 51.90%, meaning that options contracts on Arch Coal, Inc.'s stock were trading at prices that reflect an expected annual volatility of 51.90%. The higher the implied volatility, the larger the expected fluctuations of Arch Coal, Inc.'s stock price and of the Note's market value during the life of the Notes.

Decomposition of this Reverse Convertible Note



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 Reverse Convertible Note.

1. Delta measures the sensitivity of the price of the note to the Arch Coal, Inc.'s stock price on October 27, 2009.
2. 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.
3. Fair price evaluation is based on the Black-Scholes model of the Arch Coal, Inc.'s stock on October 27, 2009.
4. Calculated payout at maturity is only an approximation, and may differ from actual payouts at maturity.
5. Our evaluation does not include any transaction fees, broker commissions, or liquidity discounts on the notes.