

Report Prepared On: 04/29/13

**Structured Product Details**

<b>Name</b>	Trigger Yield Optimization Notes linked to Chesapeake Energy Corp.
<b>Issue Size</b>	\$10.97 million
<b>Issue Price</b>	\$32.73
<b>Term</b>	12 Months
<b>Annualized Coupon</b>	10.12%
<b>Pricing Date</b>	April 15, 2011
<b>Issue Date</b>	April 21, 2011
<b>Valuation Date</b>	April 16, 2012
<b>Maturity Date</b>	April 20, 2012
<b>Issuer</b>	Deutsche Bank
<b>CDS Rate</b>	22.29 bps
<b>Swap Rate</b>	0.76%
<b>Reference Asset</b>	Chesapeake Energy Corp.'s stock
<b>Initial Level</b>	\$32.73
<b>Trigger Price</b>	\$26.18
<b>Conversion Price</b>	\$19.19
<b>Dividend Rate</b>	0.91%
<b>Implied Volatility</b>	37.23%
<b>Delta<sup>1</sup></b>	0.41
<b>Fair Price at Issue</b>	\$31.62
<b>Realized Return</b>	-32.82%
<b>CUSIP</b>	25154W845
<b>SEC Link</b>	<a href="http://www.sec.gov/Archives/edgar/data/1159508/000119312511102491/d424b2.htm">www.sec.gov/Archives/edgar/data/1159508/000119312511102491/d424b2.htm</a>

**Related Research**

**Research Papers:**

[www.slcg.com/research.php](http://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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**Trigger Yield Optimization Notes linked to Chesapeake Energy Corp.**

**Description**

Deutsche Bank issued \$10.97 million of Trigger Yield Optimization Notes linked to Chesapeake Energy Corp. on April 21, 2011 at \$32.73 per note.

These notes are Deutsche Bank-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.

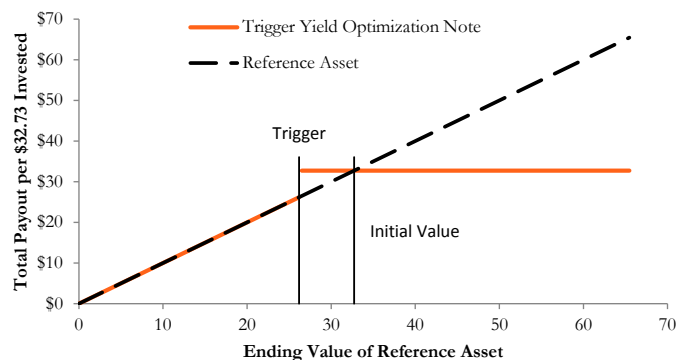
These 12-month notes pay monthly coupons at an annualized rate of 10.12%. In addition to the monthly coupons, on April 20, 2012 investors will receive the market value of one share of Chesapeake Energy Corp.'s stock if on April 16, 2012 Chesapeake Energy Corp.'s stock closes below \$26.18 (80% of Chesapeake Energy Corp.'s stock price on April 15, 2011). Otherwise, investors will receive the \$32.73 face value per note.

**Valuation**

This Deutsche Bank single observation reverse convertible linked to Chesapeake Energy Corp.'s stock can be valued as a combination of a note from Deutsche Bank and a short European out-of-the-money cash-or-nothing binary put option, and a short European out-of-the-money put option on Chesapeake Energy Corp.'s stock. For reasonable valuation inputs this note was worth \$31.62 per \$32.73 when it was issued on April 21, 2011 because investors were effectively being paid only \$2.99 for giving Deutsche Bank options which were worth \$4.10.

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**

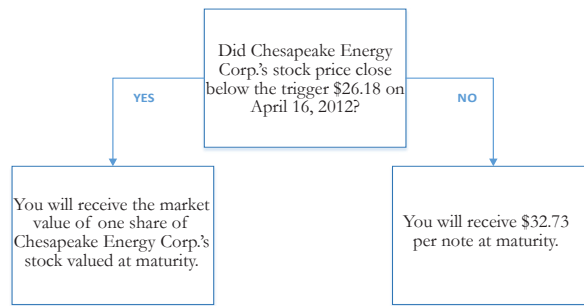


The payoff diagram shows the final payoff of this note given Chesapeake Energy Corp.'s stock price (horizontal axis). For comparison, the dashed line shows the payoff if you invested in Chesapeake Energy Corp.'s stock directly.

### Principal Payback Table

Chesapeake Energy Corp.'s Stock	Note Payoff
\$0.00	\$0.00
\$3.27	\$3.27
\$6.55	\$6.55
\$9.82	\$9.82
\$13.09	\$13.09
\$16.37	\$16.37
\$19.64	\$19.64
\$22.91	\$22.91
\$26.18	\$26.18
\$29.46	\$32.73
<b>\$32.73</b>	<b>\$32.73</b>
\$36.00	\$32.73
\$39.28	\$32.73
\$42.55	\$32.73
\$45.82	\$32.73
\$49.10	\$32.73

### Maturity Payoff Diagram



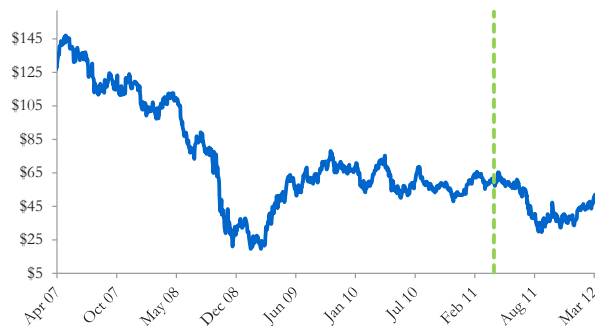
The contingent payoffs of this Trigger Yield Optimization Note.

### Analysis

This single observation reverse convertible's 10.12% coupon rate is higher than the yield Deutsche Bank paid on its straight debt but, in addition to Deutsche Bank's credit risk, investors bear the risk that they will receive shares of Chesapeake Energy Corp.'s stock when those shares are worth substantially less than the face value of the note at maturity.

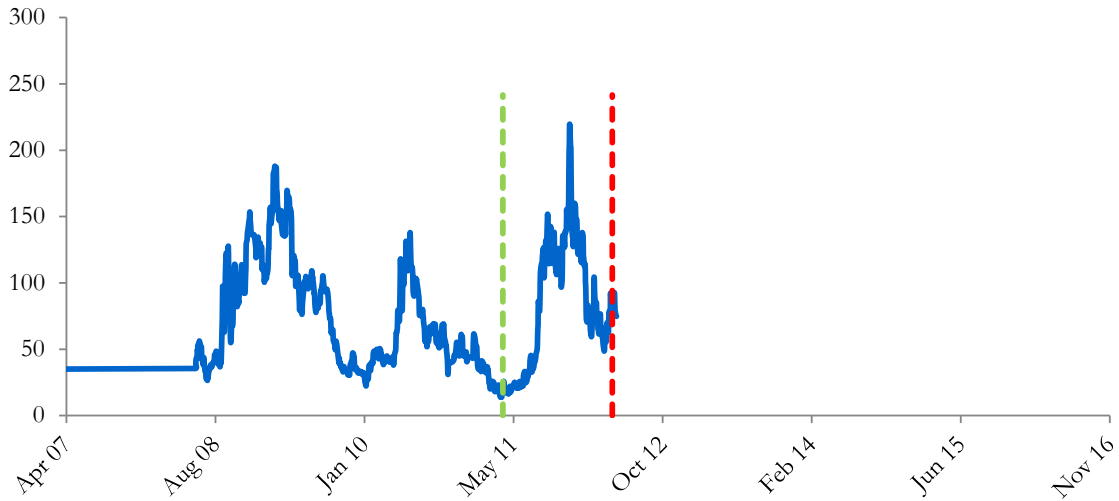
Investors purchasing these reverse convertibles effectively sell put options to Deutsche Bank and post the note's issue price as collateral to secure satisfaction of the investors' obligations under the option contracts. Deutsche Bank pays investors a "coupon" that is part payment for the put options 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 Deutsche Bank's straight debt equals the value of the put option investors are giving to Deutsche Bank. 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 Deutsche Bank was suitable for the investor.

### Deutsche Bank's Stock Price



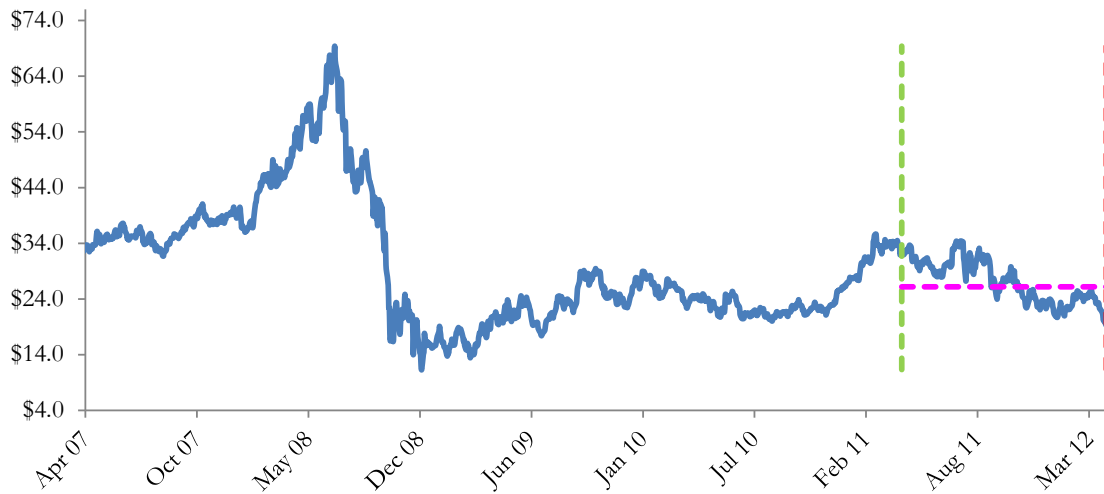
The graph above shows the adjusted closing price of the issuer Deutsche Bank for the past several years. The stock price of the issuer is an indication of the financial strength of Deutsche Bank. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

### Deutsche Bank's CDS Rate



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

### Chesapeake Energy Corp.'s Stock Price

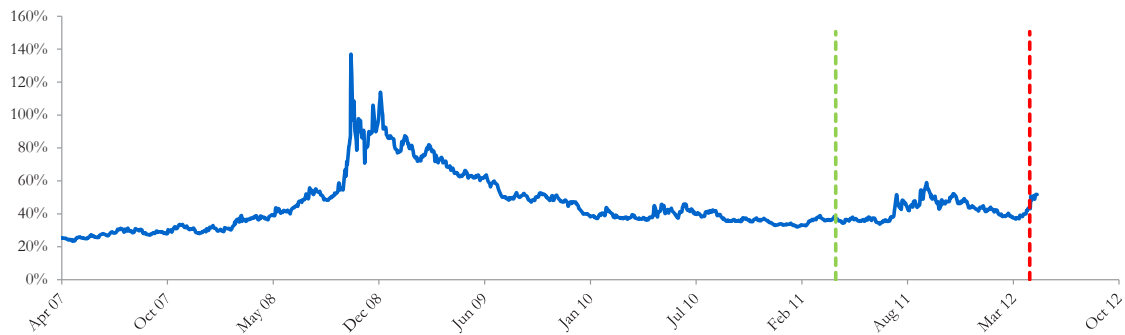


The graph above shows the historical levels of Chesapeake Energy Corp.'s stock for the past several years. The final payoff of this note is determined by Chesapeake Energy Corp.'s stock price at maturity. Higher fluctuations in Chesapeake Energy Corp.'s stock price correspond to a greater uncertainty in the final payout of this Trigger Yield Optimization Note.

### Realized Payoff

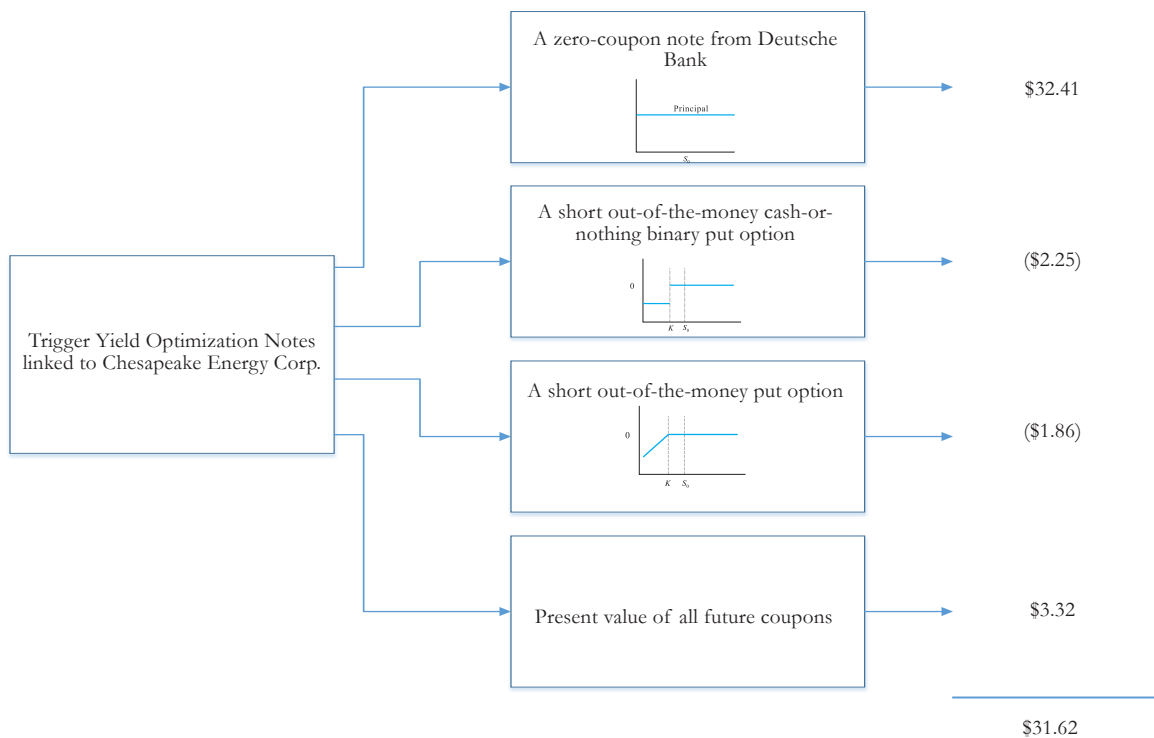
This note matured on April 20, 2012 and investors received \$19.19 per note (or equal to the value of one share of Chesapeake Energy Corp. stock's closing price on April 16, 2012).

## Reference Asset Chesapeake Energy Corp.'s Stock's Implied Volatility



The annualized implied volatility of Chesapeake Energy Corp.'s stock on April 15, 2011 was 37.23%, meaning that options contracts on Chesapeake Energy Corp.'s stock were trading at prices that reflect an expected annual volatility of 37.23%. The higher the implied volatility, the larger the expected fluctuations of Chesapeake Energy Corp.'s stock price and of the Note's market value during the life of the Notes.

## Decomposition of this Trigger Yield Optimization 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 Trigger Yield Optimization Note.

1. Delta measures the sensitivity of the price of the note to the Chesapeake Energy Corp.'s stock price on April 15, 2011.
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 Chesapeake Energy Corp.'s stock on April 15, 2011.
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.