

Report Prepared On: 10/26/12

**Structured Product Details**

<b>Name</b>	Trigger Yield Optimization Notes linked to Consol Energy, Inc.
<b>Issue Size</b>	\$23.45 million
<b>Issue Price</b>	\$49.00
<b>Term</b>	12 Months
<b>Annualized Coupon</b>	10.80%
<b>Pricing Date</b>	May 20, 2011
<b>Issue Date</b>	May 25, 2011
<b>Valuation Date</b>	May 21, 2012
<b>Maturity Date</b>	May 25, 2012
<b>Issuer</b>	JPMorgan
<b>CDS Rate</b>	16.68 bps
<b>Swap Rate</b>	0.73%
<b>Reference Asset</b>	Consol Energy, Inc.'s stock
<b>Initial Level</b>	\$49.00
<b>Conversion Price</b>	\$30.44
<b>Trigger Price</b>	\$36.75
<b>Dividend Rate</b>	0.81%
<b>Implied Volatility</b>	40.09%
<b>Delta<sup>1</sup></b>	0.4
<b>Fair Price at Issue</b>	\$47.75
<b>Realized Return</b>	-28.44%
<b>CUSIP</b>	46634X195
<b>SEC Link</b>	<a href="http://www.sec.gov/Archives/edgar/data/19617/000089109211003448/e43693_424b2.htm">www.sec.gov/Archives/edgar/data/19617/000089109211003448/e43693_424b2.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.

**Mike Yan, Ph.D.,**  
 Senior Financial Economist, SLCG  
 (+1) 703.539.6780  
[MikeYan@slcg.com](mailto:MikeYan@slcg.com)

**Trigger Yield Optimization Notes linked to Consol Energy, Inc.**

**Description**

JPMorgan issued \$23.45 million of Trigger Yield Optimization Notes linked to Consol Energy, Inc. on May 25, 2011 at \$49.00 per note.

These notes are JPMorgan-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.

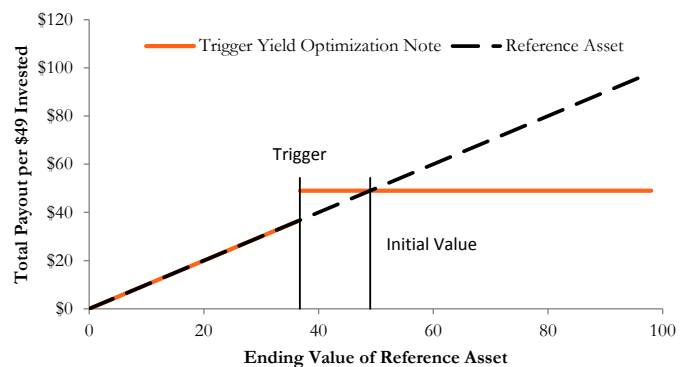
These 12-month notes pay monthly coupons at an annualized rate of 10.80%. In addition to the monthly coupons, on May 25, 2012 investors will receive the market value of one share of Consol Energy, Inc.'s stock if on May 21, 2012 Consol Energy, Inc.'s stock closes below \$36.75 (75% of Consol Energy, Inc.'s stock price on May 20, 2011). Otherwise, investors will receive the \$49.00 face value per note.

**Valuation**

This JPMorgan single observation reverse convertible linked to Consol Energy, Inc.'s stock can be valued as a combination of a note from JPMorgan and a short European out-of-the-money cash-or-nothing put option, and a short European out-of-the-money put option on Consol Energy, Inc.'s stock. For reasonable valuation inputs this note was worth \$47.75 per \$49.00 when it was issued on May 25, 2011 because investors were effectively being paid only \$4.86 for giving JPMorgan options which were worth \$6.12.

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**

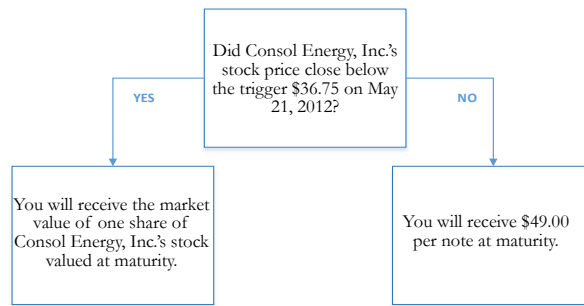


The payoff diagram shows the final payoff of this note given Consol Energy, Inc.'s stock price (horizontal axis). For comparison, the dashed line shows the payoff if you invested in Consol Energy, Inc.'s stock directly.

### Principal Payback Table

Consol Energy, Inc.'s Stock	Note Payoff
\$0.00	\$0.00
\$4.90	\$4.90
\$9.80	\$9.80
\$14.70	\$14.70
\$19.60	\$19.60
\$24.50	\$24.50
\$29.40	\$29.40
\$34.30	\$34.30
\$39.20	\$49.00
\$44.10	\$49.00
<b>\$49.00</b>	<b>\$49.00</b>
\$53.90	\$49.00
\$58.80	\$49.00
\$63.70	\$49.00
\$68.60	\$49.00
\$73.50	\$49.00

### Maturity Payoff Diagram



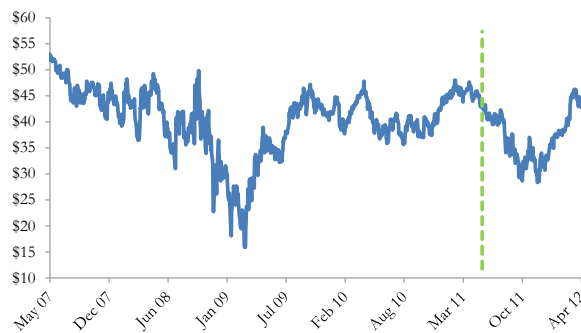
The contingent payoffs of this Trigger Yield Optimization Note.

### Analysis

This single observation reverse convertible's 10.80% coupon rate is higher than the yield JPMorgan paid on its straight debt but, in addition to JPMorgan's credit risk, investors bear the risk that they will receive shares of Consol Energy, Inc.'s stock when those shares are worth substantially less than the face value of the note at maturity.

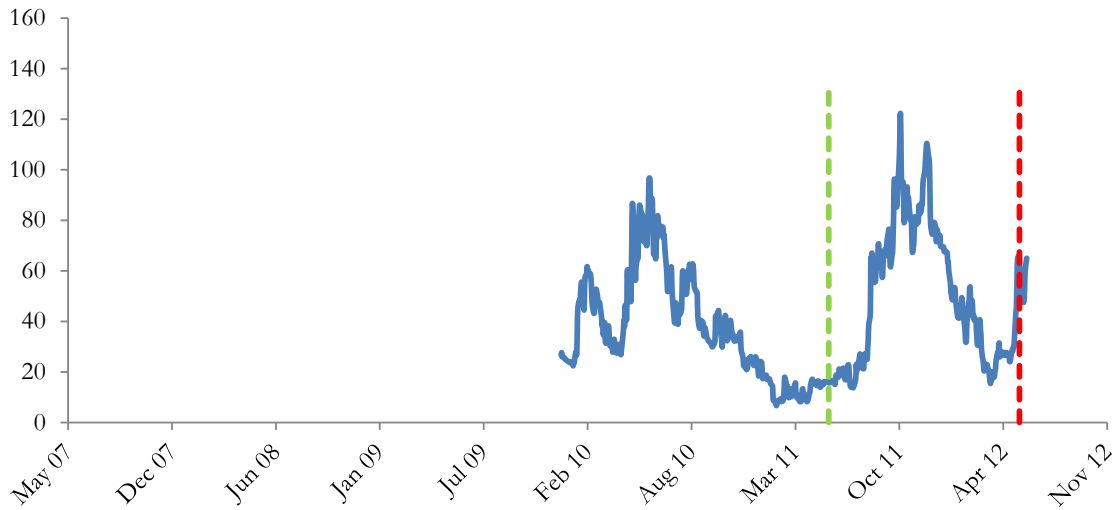
Investors purchasing these reverse convertibles effectively sell put options to JPMorgan and post the note's issue price as collateral to secure satisfaction of the investors' obligations under the option contracts. JPMorgan pays investors a "coupon" that is part payment for the put options and part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

### JPMorgan's Stock Price



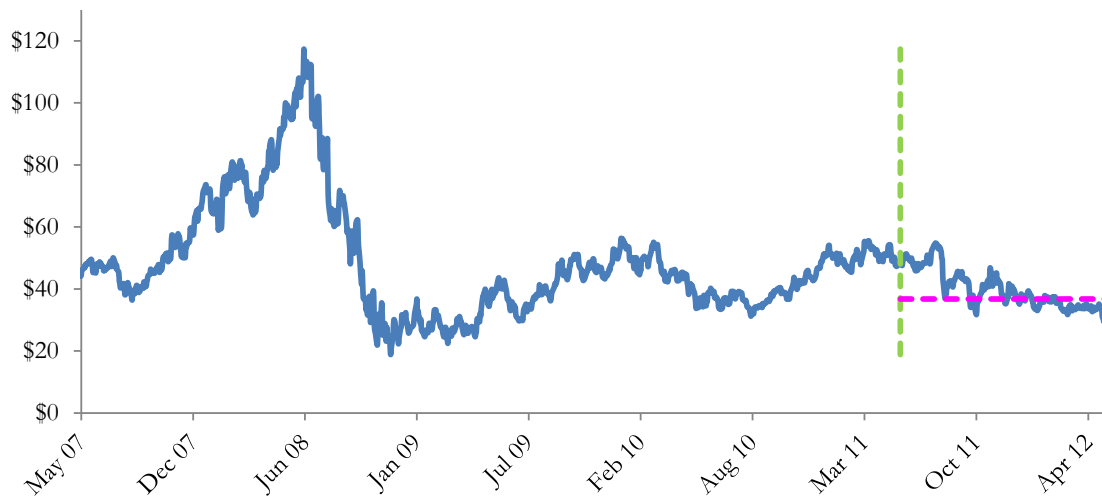
The graph above shows the adjusted closing price of the issuer JPMorgan for the past several years. The stock price of the issuer is an indication of the financial strength of JPMorgan. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

### JPMorgan's CDS Rate



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

### Consol Energy, Inc.'s Stock Price

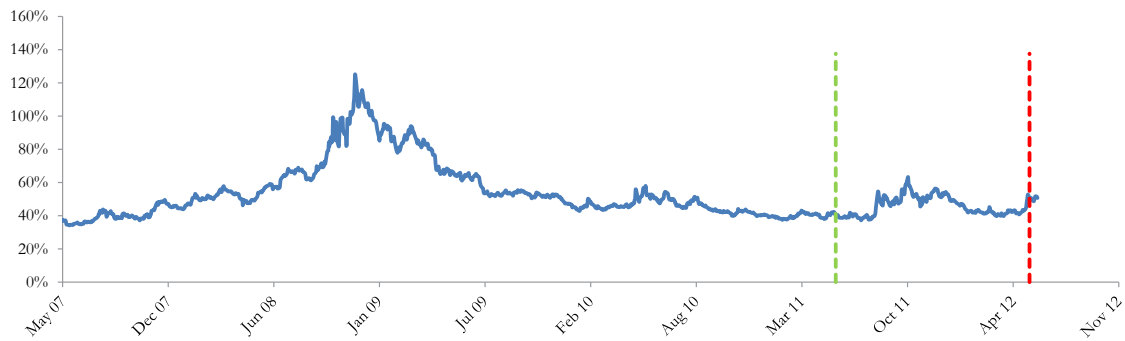


The graph above shows the historical levels of Consol Energy, Inc.'s stock for the past several years. The final payoff of this note is determined by Consol Energy, Inc.'s stock price at maturity. Higher fluctuations in Consol Energy, Inc.'s stock price correspond to a greater uncertainty in the final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

### Realized Payoff

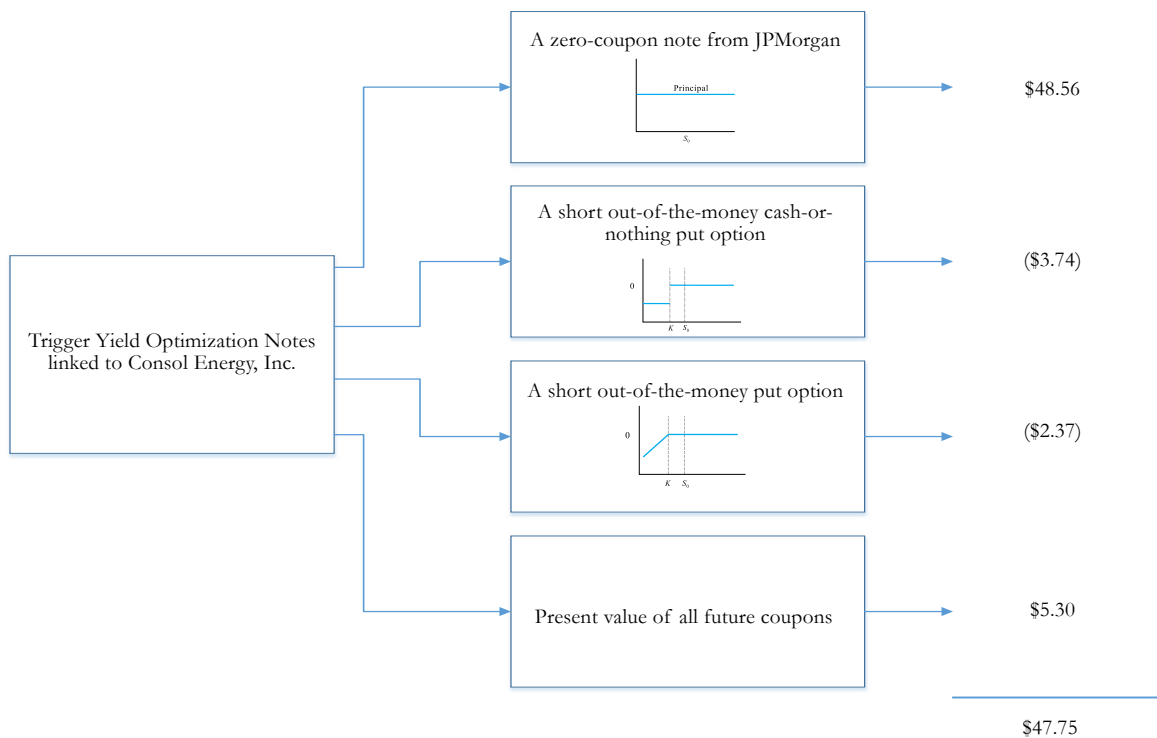
This note matured on May 25, 2012 and investors received \$30.44 per note (or equal to the value of one share of Consol Energy, Inc. stock's closing price on May 21, 2012).

## Reference Asset Consol Energy, Inc.'s Stock's Implied Volatility



The annualized implied volatility of Consol Energy, Inc.'s stock on May 20, 2011 was 40.09%, meaning that options contracts on Consol Energy, Inc.'s stock were trading at prices that reflect an expected annual volatility of 40.09%. The higher the implied volatility, the larger the expected fluctuations of Consol Energy, Inc.'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 Consol Energy, Inc.'s stock price on May 20, 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 Consol Energy, Inc.'s stock on May 20, 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.