
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

FORM 8-K

**CURRENT REPORT PURSUANT
TO SECTION 13 OR 15(D) OF THE
SECURITIES EXCHANGE ACT OF 1934**

Date of report (Date of earliest event reported): **May 18, 2010**

CROSS TIMBERS ROYALTY TRUST
(Exact Name of Registrant as Specified in Its Charter)

Texas
(State or Other Jurisdiction of Incorporation)

1-10982
(Commission File Number)

75-6415930
(IRS Employer Identification No.)

**U.S. Trust, Bank of America
Private Wealth Management
Trustee
P.O. Box 830650
Dallas, Texas**
(Address of Principal Executive Offices)

75283-0650
(Zip Code)

(877) 228-5084
(Registrant's Telephone Number, Including Area Code)

NONE
(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (*see* General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
 - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
 - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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Item 2.02. Results of Operations and Financial Condition.

On May 18, 2010, the Registrant issued a news release announcing its monthly cash distribution to unitholders of record on May 28, 2010. A copy of the news release is furnished as Exhibit 99.1.

The information in this Current Report, including the news release attached hereto, is being furnished pursuant to Item 2.02 of Form 8-K and shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to liabilities of that Section.

Item 9.01. Financial Statements and Exhibits.

(c) Exhibits.

99.1 News Release dated May 18, 2010

EXHIBIT INDEX

Exhibit Number and Description

99.1 News Release dated May 18, 2010

[NEWS RELEASE LETTERHEAD OF CROSS TIMBERS ROYALTY TRUST APPEARS HERE]

**CROSS TIMBERS ROYALTY TRUST
DECLARES MAY CASH DISTRIBUTION**

Dallas, Texas, May 18, 2010 – U.S. Trust, Bank of America Private Wealth Management, as Trustee of the Cross Timbers Royalty Trust (NYSE – CRT), today declared a cash distribution to the holders of its units of beneficial interest of \$0.236768 per unit, payable on June 14, 2010, to unitholders of record on May 28, 2010. The following table shows underlying oil and gas sales and average prices attributable to the current month and prior month distributions.

	Underlying Sales		Average Price	
	Volumes			
	Oil (Bbls)	Gas (Mcf)	Oil (per Bbl)	Gas (per Mcf)
Current Month	18,000	132,000	\$ 75.58	\$ 8.19
Prior Month	15,000	214,000	\$ 70.85	\$ 8.95

For more information on the Trust, please visit our web site at www.crosstimberstrust.com.

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