

BAYTEX ENERGY CORP.  
Form 6-K  
May 24, 2012

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**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**  
Washington, DC 20549

**FORM 6-K**

**Report of Foreign Private Issuer**  
**Pursuant to Rule 13a-16 or 15d-16 Under the**  
**Securities Exchange Act of 1934**

For the month of May 2012

Commission File Number: 1-32754

**BAYTEX ENERGY CORP.**

(Exact name of registrant as specified in its charter)

**2800, 520 - 3<sup>rd</sup> AVENUE S.W.**  
**CALGARY, ALBERTA, CANADA**  
**T2P 0R3**

(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F.

Form 20-F

Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes

No

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): \_\_\_\_\_

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The following document attached is an exhibit hereto and incorporated by reference herein:

| <b>Exhibit No.</b> | <b>Document</b>           |
|--------------------|---------------------------|
| 99.1               | First Quarter Report 2012 |

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

**BAYTEX ENERGY CORP.**  
*/s/ MURRAY J. DESROSIERS*

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Name: Murray J. Desrosiers  
Title: Vice President, General Counsel and Corporate  
Secretary

Dated: May 24, 2012

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SIGNATURES