

ENERPLUS RESOURCES FUND  
Form 6-K  
March 31, 2010

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FORM 6-K

SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

Report of Foreign Issuer pursuant to Rule 13-a-16 or 15d-16  
of the Securities Exchange Act of 1934

FOR THE MONTH OF March, 2010

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COMMISSION FILE NUMBER 1-15150

The Dome Tower  
Suite 3000, 333 – 7th Avenue S.W.  
Calgary, Alberta  
Canada T2P 2Z1

(403) 298-2200

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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)

Yes  No

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)

Yes  No

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

Yes  No

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EXHIBIT INDEX

EXHIBIT

99.1 News Release dated March 31, 2010 - Enerplus announces cash distribution for April 2010

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SIGNATURE

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.

ENERPLUS RESOURCES FUND

By EnerMark Inc.

BY: /s/

David A. McCoy

David A. McCoy  
Vice President, General Counsel & Corporate Secretary

DATE: March 31, 2010