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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 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):

September 20, 2010

Cliffs Natural Resources Inc.

(Exact name of registrant as specified in its charter)

Ohio

1-8944

34-1464672

(State or other jurisdiction  
of incorporation)

(Commission  
File Number)

(I.R.S. Employer  
Identification No.)

200 Public Square, Suite 3300, Cleveland, Ohio

44114-2315

(Address of principal executive offices)

(Zip Code)

Registrant's telephone number, including area code:

216-694-5700

Not Applicable

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:

- 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 8.01 Other Events.**

Cliffs Natural Resources Inc. published a news release on September 20, 2010 as follows:

Cliffs Natural Resources Inc. Announces Asia Pacific Iron Ore Infrastructure Upgrades

Project to Result in Production of Approximately 11 Million Tonnes Annually for Asia Pacific Iron Ore Segment

CLEVELAND – Sept. 20, 2010 – Cliffs Natural Resources Inc. (NYSE: CLF) (Paris: CLF) announced today that its Board of Directors has approved a capital project at its Koolyanobbing Complex in Western Australia. The project, which requires approximately \$320 million Australian dollars of incremental capital investment, is expected to allow the Koolyanobbing Complex to produce approximately 11 million tonnes annually.

Cliffs indicated that capital for this project will be spent over the next two years, with the bulk of the spending occurring in 2011. The improvements are expected to consist of enhancements to the existing rail infrastructure, an increase in rolling stock, and upgrades to various other existing operational constraints. Cliffs anticipates these improvements to be fully implemented in the second half of 2012.

Cliffs stated that recently acquired mineral tenements located near its existing Asia Pacific Iron Ore deposits will enable the Company to continue potentially increasing the current resource base.

Duncan Price, Cliffs' senior vice president and managing director, Asia Pacific Iron Ore, commented, "We are enthusiastic about the expected organic growth these improvements will generate for our Asia Pacific Iron Ore operations. We acknowledge the support of, and effort by, the Western Australian Government in overcoming significant policy uncertainties, which had delayed key permits."

To be added to Cliffs Natural Resources' e-mail distribution list, please click on the link below:  
<http://www.cpg-llc.com/clearsite/clf/emailoptin.html>

About Cliffs Natural Resources Inc.

Cliffs Natural Resources Inc. is an international mining and natural resources company. A member of the S&P 500 Index, we are the largest producer of iron ore pellets in North America, a major supplier of direct-shipping lump and fines iron ore out of Australia and a significant producer of high and low volatile metallurgical coal. With core values of environmental and capital stewardship, our colleagues across the globe endeavor to provide all stakeholders operating and financial transparency as embodied in the Global Reporting Initiative (GRI) framework. Our Company is organized through three geographic business units:

The North American business unit is comprised of six iron ore mines owned or managed in Michigan, Minnesota and Canada and six coal mines located in West Virginia and Alabama. The Asia Pacific business unit is comprised of two iron ore mining complexes in Western Australia and a 45% economic interest in a coking and thermal coal mine in Queensland, Australia. The Latin American business unit includes a 30% interest in the Amapá Project, an iron ore project in the state of Amapá in Brazil.

Other projects under development include a biomass production plant in Michigan and Ring of Fire chromite properties in Ontario, Canada. Over recent years, Cliffs has been executing a strategy designed to achieve scale in the mining industry and focused on serving the world's largest and fastest growing steel markets.

News releases and other information on the Company are available on the Internet at:  
<http://www.cliffsnaturalresources.com> or  
[www.cliffsnaturalresources.com/Investors/Pages/default.aspx?b=1041&l=1](http://www.cliffsnaturalresources.com/Investors/Pages/default.aspx?b=1041&l=1)

"Safe Harbor" Statement under the Private Securities Litigation Reform Act of 1995

This news release contains predictive statements that are intended to be made as "forward-looking" within the safe harbor protections of the Private Securities Litigation Reform Act of 1995. Although the Company believes that its forward-looking statements are based on reasonable assumptions, such statements are subject to risk and uncertainties.

Actual results may differ materially from such statements for a variety of reasons, including: the impact of the current global economic crisis, including downward pressure on prices; trends affecting our financial condition, results of operations or future prospects; the ability to reach agreement with our iron ore customers regarding modifications to sales contract pricing escalation provisions to reflect the migration from annual international benchmark prices to a quarterly or spot-based pricing mechanism; the outcome of any contractual disputes with our customers; changes in the sales volumes or mix; the impact of price-adjustment factors on our sales contracts; availability of capital equipment and component parts; the ability of our customers to meet their obligations to us on a timely basis or at all; events or circumstances that could impair or adversely impact the viability of a mine and the carrying value of associated assets; inability to achieve expected production levels; reductions in current resource estimates; impacts of increasing governmental regulation including failure to receive or maintain required environmental permits; availability of maritime transportation; and problems with productivity, third party contractors, labor disputes, weather conditions, fluctuations in ore grade, tons mined, changes in cost factors including energy costs, tax, transportation, mine closure obligations and employee benefit costs.

Reference is also made to the detailed explanation of the many factors and risks that may cause such predictive statements to turn out differently, set forth in the Company's Annual Report and Reports on Form 10-K, Form 10-Q and previous news releases filed with the Securities and Exchange Commission, which are publicly available on Cliffs Natural Resources' website. The information contained in this document speaks as of the date of this news release and may be superseded by subsequent events.

SOURCE: Cliffs Natural Resources Inc.

**INVESTOR AND FINANCIAL MEDIA CONTACTS:**

Steve Baisden  
Director, Investor Relations and Corporate Communications  
(216) 694-5280

Jessica Moran  
Senior Investor Relations Analyst  
(216) 694-6532

Christine Dresch  
Manager – Corporate Communications  
(216) 694-4052



**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 hereunto duly authorized.

*September 21, 2010*

Cliffs Natural Resources Inc.

By: *P. Kelly Tompkins*

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*Name: P. Kelly Tompkins*

*Title: EVP, Legal, Government Affairs and Sustainability and General Counsel and Secretary*