

Gastar Exploration Inc.  
Form 8-K  
September 15, 2014

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 15, 2014 (September 15, 2014)

GASTAR EXPLORATION INC.  
(Exact Name of Registrant as Specified in its Charter)

DELAWARE (State or other jurisdiction of incorporation)	001-35211 (Commission File Number)	38-3531640 (IRS Employer Identification No.)
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1331 LAMAR STREET, SUITE 650  
HOUSTON, TEXAS 77010  
(Address of principal executive offices)

(713) 739-1800  
(Registrant's telephone number, including area code)

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))

SECTION 8 – OTHER EVENTS

Item 8.01 Other Events.

On September 15, 2014, Gastar Exploration Inc. (the “Company”) issued a press release announcing its intent to offer, subject to market conditions, 17,000,000 shares of its common stock, par value \$0.001 per share, in a public offering pursuant to a shelf registration statement previously filed with the Securities and Exchange Commission. A copy of the Company’s press release, dated September 15, 2014, is filed herewith as Exhibit 99.1 and is incorporated herein by reference.

SECTION 9 – FINANCIAL STATEMENTS AND EXHIBITS

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

The following is a list of exhibits filed as part of this Form 8-K:

Exhibit No.	Description of Document
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99.1	Press release dated September 15, 2014.
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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 hereunto duly authorized.

Date: September 15, 2014

GASTAR EXPLORATION INC.

By: /s/ J. Russell Porter  
J. Russell Porter  
President and Chief Executive Officer

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EXHIBIT INDEX

Exhibit No.      Description of Document

99.1 Press release dated September 15, 2014.