

GASTAR EXPLORATION LTD
Form 8-K
April 24, 2008

**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): April 24, 2008 (April 23, 2008)

GASTAR EXPLORATION LTD.
(Exact Name of Registrant as Specified in Its Charter)

ALBERTA, CANADA 001-32714 98-0570897
(State or other jurisdiction (Commission (IRS Employer
of incorporation) File Number) Identification No.)

1331 LAMAR STREET, SUITE 1080
HOUSTON, TEXAS 77010
(Address of principal executive offices)

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

NA
(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))

SECTION 7 – REGULATION FD

Item 7.01 Regulation FD Disclosure

On April 23, 2008, Gastar Exploration Ltd. provided an update on recent drilling operations in East Texas, as well as results from recent activities in New South Wales, Australia.

This press release is attached as Exhibit 99.1 and is being furnished solely pursuant to Item 7.01 of this report.

SECTION 9 – FINANCIAL STATEMENTS AND EXHIBITS

Item 9.01 Financial Statements and Exhibits

(d) Exhibits

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

| Exhibit No. | Description of Document |
|--------------------|-------------------------------------|
| 99.1 | Press release dated April 23, 2008. |

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.

GASTAR EXPLORATION LTD.

Date: April 24, 2008 By: /s/ J. RUSSELL PORTER
J. Russell Porter
President and Chief Executive Officer

EXHIBIT INDEX

Exhibit No. Description of Document

99.1 Press release dated April 23, 2008.