



DIVISION OF  
CORPORATION FINANCE

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

December 12, 2013

Via Email

Mr. Michael A. Gerlich  
Chief Financial Officer  
Gastar Exploration Ltd.  
Gastar Exploration USA, Inc.  
1331 Lamar Street, Suite 650  
Houston, Texas 77010

**Re: Gastar Exploration Ltd.  
Form 10-K for Fiscal Year Ended December 31, 2012  
Filed March 11, 2013  
File No. 001-32714**

**Gastar Exploration USA, Inc.  
Form 10-K for Fiscal Year Ended December 31, 2012  
Filed March 11, 2013  
File No. 001-35211**

Dear Mr. Gerlich:

We have completed our review of your filings. We remind you that our comments or changes to disclosure in response to our comments do not foreclose the Commission from taking any action with respect to the company or the filings and the company may not assert staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States. We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filings to be certain that the filings include the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ Ethan Horowitz

Ethan Horowitz  
Branch Chief