



DIVISION OF  
CORPORATION FINANCE  
MAIL STOP 4628

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549-4628

October 29, 2009

Mr. Michael A. Gerlich  
Vice President and Chief Financial Officer  
Gastar Exploration Ltd.  
1331 Lamar Street, Suite 1080  
Houston, TX 77010

**Re: Gastar Exploration Ltd.  
Form 10-K for the Fiscal Year Ended December 31, 2008  
File No. 1-32714**

Dear Mr. Gerlich:

We have completed our review of your Form 10-K and related filings and have no further comments at this time.

Sincerely,

H. Roger Schwall  
Assistant Director