



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