



DIVISION OF  
CORPORATION FINANCE

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

December 7, 2010

Robert G. Phillips  
President and Chief Executive Officer  
Crestwood Midstream Partners LP  
717 Texas Avenue, Suite 3150  
Houston, Texas 77002

**Re: Crestwood Midstream Partners LP**  
**Form 10-K for Fiscal Year Ended December 31, 2009**  
**Filed March 15, 2010**  
**Form 10-Q for Fiscal Quarter Ended September 30, 2010**  
**Filed November 8, 2010**  
**File No. 001-33631**

Dear Mr. Phillips:

We have completed our review of your filings and do not have any further comments at this time.

Sincerely,

H. Christopher Owings  
Assistant Director

cc: William Manias, Chief Financial Officer