



DIVISION OF
CORPORATION FINANCE

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

September 9, 2010

Mr. Scott D. Sheffield
Chairman and Chief Executive Officer
Pioneer Southwest Energy Partners L.P.
5205 N. O'Connor Blvd., Suite 200
Irving, Texas 75039

Re: Pioneer Southwest Energy Partners L.P.
Form 10-K for the Fiscal Year Ended December 31, 2009
Filed March 1, 2010
Form 10-Q for the Fiscal Quarter Ended June 30, 2010
Filed July 30, 2010
File No. 001-34032

Dear Mr. Sheffield:

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

Sincerely,

H. Roger Schwall
Assistant Director