

USA COMPRESSION PARTNERS, LP  
100 Congress Avenue, Suite 450  
Austin, Texas 78701  
(512) 473-2662

January 10, 2013

**Via Edgar**

Securities and Exchange Commission  
Division of Corporation Finance  
100 F Street, N.E., Mail Stop 4628  
Washington, D.C. 20549-4628

Attn: H. Roger Schwall, Assistant Director  
Division of Corporation Finance

**Re: USA Compression Partners, LP  
Registration Statement on Form S-1  
File No. 333-174803**

Ladies and Gentlemen:

USA Compression Partners, LP (the "**Partnership**") requests acceleration of the effective date of the above-captioned Registration Statement to 3:00 p.m., Washington, D.C. time, on January 14, 2013, or as soon as practicable thereafter.

The Partnership hereby acknowledges that:

- should the Securities and Exchange Commission (the "**Commission**") or the staff, acting pursuant to delegated authority, declare the filing effective, it does not foreclose the Commission from taking any action with respect to the filing;
- the action of the Commission or the staff, acting pursuant to delegated authority, in declaring the filing effective, does not relieve the Partnership from its full responsibility for the adequacy and accuracy of the disclosure in the filing; and
- the Partnership may not assert staff comments and the declaration of effectiveness as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

---

Very truly yours,

**USA COMPRESSION PARTNERS, LP**

By: USA Compression GP, LLC,  
its general partner

By: /s/ J. Gregory Holloway  
J. Gregory Holloway  
Vice President, General Counsel and Secretary

cc: Sean T. Wheeler (By Email)  
Latham & Watkins LLP  
811 Main Street, Suite 3700  
Houston, TX 77002  
Sean.Wheeler@lw.com

Keith Benson (By Email)  
Latham & Watkins LLP  
811 Main Street, Suite 3700  
Houston, TX 77002  
Keith.Benson@lw.com

---