



COTHREN, GRAFF, SMOAK ENGINEERING, INC.

CIVIL ♦ ENVIRONMENTAL ♦ SANITARY ♦ STRUCTURAL ♦ MECHANICAL ♦ ELECTRICAL

FIRM LICENSE - LA 2636 ♦ AL 7531 ♦ TX 1754

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S.M. COTHREN, P.E. (2018)

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August 21, 2019

Hon. Steve Gunn, Mayor
Town of Montgomery
P. O. Box 99
Montgomery, LA 71454

Re: Montgomery Industrial Site Certification

Dear Mayor Gunn:

We had a discussion with John Shelton, your gas system consultant, about the line size(s) and operating pressure from the system's connection to the transmission main to the industrial site. The existing line is 3" steel operated at 80 psi. This line pressure can be raised to 160 psi upon replacing a short section of plastic pipe used to repair the steel line.

I also consulted with an engineer that has worked in the gas collection and pumping industry for many years to estimate gas volumes that can be expected at the Town's industrial site.

Based on the typical operating parameters and using the Weymouth method of calculating gas flow, we estimate that the Town could deliver 320 MCFD at 20 psi to the industrial site through the 3" line under current operating pressure. This could be raised to 650 MCFD at 20 psi if the distribution inlet pressure (at the transmission connection) is increased to 160 psi.

To increase the flow rate above 650 MCFD, a larger line would have to be constructed from the system's connection to the transmission main.

Sincerely,

COTHREN, GRAFF, SMOAK ENGINEERING, INC.

A handwritten signature in blue ink that reads "K. Randal Smoak".

K. Randal Smoak, P.E.