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west virginia department of environmental protection

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Earl Ray Tomblin, Governor  
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**MEMORANDUM**

**To:** Beverly McKeone  
**From:** Roy F. Kees, P.E.  
**Date:** August 24, 2015  
**Subject:** Gastar Exploration USA, Inc. – Yoho Pad, Wetzel County, WV  
**ID #:** 103-00074  
**APP #:** PD15-055

**BACKGROUND INFORMATION:**

Gastar is seeking to determine permit applicability for proposed changes to their facility located near New Martinsville, Wetzel County, WV. Emission units at the facility currently consist of one (1) 0.75 mmBtu/hr heaters, and one (1) 210 bbl condensate and one (1) 210 bbl produced water tank, an enclosed combustor and truck loading. Proposed changes include removing the vapor combustor and relabeling the condensate tank as a produced water tank. These changes are proposed because of a lack of condensate being produced at the site.

According to calculations provided by Gastar using AP-42 for the line heaters, and Tanks / Gas-to-Oil Ratio method for the storage tanks, the estimated emissions follow:

<u>Pollutant</u>	<u>LB/HR</u>	<u>TPY</u>
PM <sub>10</sub>	0.08	0.37
VOCs	0.03	0.13
HAPs	<0.01	0.01
NO <sub>x</sub>	0.07	0.32
CO	0.06	0.27

**RECOMMENDATION:**

The emission rates for the facility after the proposed changes are below the emission limits of six (6) lb/hr and ten (10) TPY; 2 lb/hr, or 5 TPY of HAPs set forth set forth in 45CSR13 - 2.17.a&b. Therefore, a permit is not required by this Division for the operation of the above mentioned facility. However, it is recommended that a Class I Administrative Update to the current permit be used to accurately list equipment at the site.

  
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Roy F. Kees, P.E.  
Engineer – NSR Permitting

8/24/15  
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Date