



west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
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Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

June 06, 2016

CERTIFIED MAIL
91 7199 9991 7035 6665 8080

Barry Schatz
1615 Wynkoop Street
Denver, CO 80202

RE: Antero Resources Corporation
Ireland North Well Pad
Permit Application G70-B134B
Plant ID No. 085-00045

Dear Mr. Schatz:

Your application for a permit as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed permit G70-B134B is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

The source is not subject to 45CSR30.

In accordance with 45CSR22 - Air Quality Management Fee Program, the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first obtaining and having in current effect a Certificate to Operate (CTO). Such Certificate to Operate (CTO) shall be renewed annually, shall be maintained on the premises for which the Certificate has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions or comments, please contact me at (304) 926-0499, extension 1212.

Sincerely,

Thornton E. Martin Jr.
Permit Engineer

c: Manuel Bautista, GHD Services Inc.

*West Virginia Department of Environmental Protection
Division of Air Quality*

*Earl Ray Tomblin
Governor*

*Randy C. Huffman
Cabinet Secretary*

**Class II General Permit
G70-B Registration to Modify**



for the
Prevention and Control of Air Pollution in regard to the
Construction, Modification, Relocation, Administrative Update and
Operation of Natural Gas Production Facilities Located at the Well Site

*The permittee identified at the facility listed below is authorized to
construct the stationary sources in accordance
with all terms and conditions of General Permit G70-B.*

G70-B134B

Issued to:

Antero Resources Corporation

Ireland North Well Pad

085-00045

A blue ink signature of William F. Durham, written in a cursive style, positioned above a horizontal line.

William F. Durham

Director

Issued: June 06, 2016

This Class II General Permit Registration will supersede and replace G70-A134A.

Facility Location: West Union, Ritchie County, West Virginia
Mailing Address: 1615 Wyncoop Street
Denver, CO 80202
NAICS Code: 211111
SIC Code: 1311
Longitude Coordinates: -80.89931
Latitude Coordinates: 39.17277
Registration Type: Modification
Description of Change: Increase in production, Addition of 11 (2- phase) separators, Addition of 3 vapor recovery towers, Addition of 11 line heaters, Addition of 2 Cimarron enclosed combustors, Removal of Kubota engine (previously permitted as ENG001, 24HP, Addition of 3 Ford high pressure VRU compressor engines, Addition of 2 Zenith low pressure VRU compressor engines.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

The source is not subject to 45CSR30.

The registered natural gas production facility granted Class II General Permit registration by the Director shall not have a potential to emit any criteria pollutant in an amount equal to or greater than the following:

Pollutant	Maximum Annual Emission Limit (tons/year)
Nitrogen Oxides	50
Carbon Monoxide	80
Volatile Organic Compounds	80
Particulate Matter – 10/2.5	20
Sulfur Dioxide	20
Any Single Hazardous Air Pollutant	8
Total Hazardous Air Pollutants	20

G70-B Annual Certification. Annually from the date of G70-B registration issuance, the registrant shall prepare and submit a G70-B Annual Certification for the previous year, addressing the potential emissions from the facility (using a generally accepted model or calculation methodology) and an updated Emission Units/ERD/APCD table (if necessary). The registrant shall pay an annual \$1,000 certification fee to the Director. The fee shall be paid by negotiable instrument made payable to the "DEP-Division of Air Quality".

The G70-B Annual Certification is due by June 06 of each calendar year.

Permit Section Applicability for the Registrant

All registered facilities under General Permit G70-B are subject to Sections 1.0, 2.0, 3.0, and 4.0 of General Permit G70-B.

The following additional sections of General Permit G70-B apply to the registrant:

GENERAL PERMIT G70-B APPLICABLE SECTIONS	
<input checked="" type="checkbox"/> Section 5.0	Gas Well Affected Facility (NSPS, Subpart OOOO)
<input checked="" type="checkbox"/> Section 6.0	Storage Vessels Containing Condensate and/or Produced Water ¹
<input type="checkbox"/> Section 7.0	Storage Vessel Affected Facility (NSPS, Subpart OOOO)
<input checked="" type="checkbox"/> Section 8.0	Control Devices and Emission Reduction Devices not subject to NSPS Subpart OOOO and/or NESHAP Subpart HH
<input checked="" type="checkbox"/> Section 9.0	Small Heaters and Reboilers not subject to 40CFR60 Subpart Dc
<input type="checkbox"/> Section 10.0	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)
<input type="checkbox"/> Section 11.0	Centrifugal Compressor Affected Facility (NSPS, Subpart OOOO) ²
<input type="checkbox"/> Section 12.0	Reciprocating Compressor Affected Facility (NSPS, Subpart OOOO) ²
<input checked="" type="checkbox"/> Section 13.0	Reciprocating Internal Combustion Engines, Generator Engines
<input checked="" type="checkbox"/> Section 14.0	Tanker Truck Loading ³
<input type="checkbox"/> Section 15.0	Glycol Dehydration Units ⁴

1 Applicants that are subject to Section 6 may also be subject to Section 7 if the applicant is subject to the NSPS, Subpart OOOO control requirements or the applicable control device requirements of Section 8.

2 Applicants that are subject to Section 11 and 12 may also be subject to the applicable RICE requirements of Section 13.

3 Applicants that are subject to Section 14 may also be subject to control device and emission reduction device requirements of Section 8.

4 Applicants that are subject to Section 15 may also be subject to the requirements of Section 9 (reboilers). Applicants that are subject to Section 15 may also be subject to control device and emission reduction device requirements of Section 8.