west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone 304/926-0475

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

August 8, 2016

CERTIFIED MAIL
91 7199 9991 7035 6613 6496

Barry Schatz
1615 Wynkoop Street
Denver, CO 80202

RE: Approved Registration G70-C115D
Antero Resources Corporation
Mackay Wellpad
Facility ID No. 085-00041

Dear Mr. Schatz:

The Director has determined that the submitted Registration Application and proposed modification and operation of an oil and natural gas production facility demonstrates eligibility and compliance with the requirements, provisions, standards and conditions of General Permit G70-C and hereby grants General Permit registration authorizing the proposed activity.

The application was originally submitted as a G70-B, but given the fact that the MDHI of the vapor combustors exceed the limit of the G70-B, and the fact that the G70-C has been signed with the higher limit, the registration will be issued as a G70-C.

General Permit G70-C can be accessed electronically at www.dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx. Hard copies are available upon request by contacting Danielle Wentz at (304)926-0499 ext. 1193.

Please be aware of the actions required in Monitoring Requirements, Testing Requirements, Recordkeeping Requirements, and the Reporting Requirements.

Should you have any questions, please contact the undersigned engineer at (304)926-0499 ext. 1222 or Roy.F.Kees@wv.gov.

Sincerely,

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

Enclosures: Registration G70-C115D
c. Elizabeth McLaughlin

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Class II General Permit
G70-C 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-C.

G70-C115D
Issued to:
Antero Resources Corporation
Mackay Well Pad
085-00041

William F. Durham
Director

Issued: August 8, 2016

This Class II General Permit Registration will supercede and replace G70-A115B

Facility Location: Pennsboro, Ritchie County, West Virginia
Mailing Address: 1615 Wynkoop Street, Denver, CO 80202
NAICS Code: 21111
SIC Code: 1311
Longitude Coordinates: 39.23841
Latitude Coordinates: -80.89688
Registration Type: Modification
Description of Change: Increase in production, removal of Cimarron enclosed combustor, removal of Kubota engine, and the addition of 4 high pressure VRU engines, 2 low pressure VRU engines, and 3 vapor recovery towers.

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-C Annual Certification. Annually from the date of G70-C registration issuance, the registrant shall prepare and submit a G70-C 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-C Annual Certification is due by August 8 of each calendar year.

Permit Section Applicability for the Registrant

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

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

GENERAL PERMIT G70-C APPLICABLE SECTIONS	
X Section 5.0	Gas Well Affected Facility (NSPS, Subpart OOOO)
X Section 6.0	Storage Vessels Containing Condensate and/or Produced Water[1]
☐Section 7.0	Storage Vessel Affected Facility (NSPS, Subpart OOOO)
X Section 8.0	Control Devices and Emission Reduction Devices not subject to NSPS Subpart OOOO and/or NESHAP Subpart HH
X Section 9.0	Small Heaters and Reboilers not subject to 40CFR60 Subpart Dc
☐Section 10.0	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)
☐Section 11.0	Centrifugal Compressor Affected Facility (NSPS, Subpart OOOO)[2]
☐Section 12.0	Reciprocating Compressor Affected Facility (NSPS, Subpart OOOO)[2]
X Section 13.0	Reciprocating Internal Combustion Engines, Generator Engines
X Section 14.0	Tanker Truck Loading[3]
☐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.*