



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

September 2, 2015

CERTIFIED MAIL
91 7199 9991 7035 6611 2926

Barry Schatz
1615 Wynkoop Street
Denver, CO 80202

RE: Approved Registration G70-A039B
Antero Resources Corporation
Pennington North Wellpad
Facility ID No. 017-00095

Dear Mr. Schatz:

The Director has determined that the submitted Registration Application and proposed construction 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-A and hereby grants General Permit registration authorizing the proposed activity.

General Permit G70-A 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

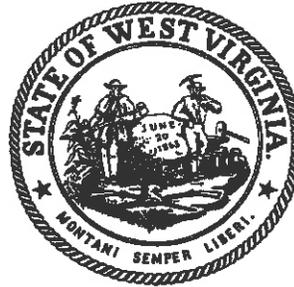
Enclosures: Registration G70-A039B

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

*Earl Ray Tomblin
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Cabinet Secretary*

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



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

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

G70-A039B

Issued to:
Antero Resources Corporation
Pennington North Pad
017-00095

A handwritten signature in blue ink, appearing to read "William F. Durham", written over a horizontal line.

*William F. Durham
Director*

Issued: September 2, 2015

This General Permit Registration will Supersede and Replace G70-A039A

Facility Location: New Milton, Doddridge County, West Virginia
Mailing Address: 1625 17th Street, Denver, CO 80202
Facility Description: Natural Gas Production
NAICS Code: 211111
SIC Code: 1311
UTM Coordinates: 522.518 km Easting • 4,340.118 km Northing • Zone 17
Longitude Coordinates: -80.739021
Latitude Coordinates: 39.210430
Directions to Facility: At the intersection of C/R 25/2 and C/R 25 / Meathouse Fork Road, head north to C/R 25 Meathouse Fork Road for 1.2 miles. Turn left to WV-18S and go for 3 miles. Turn right to C/R 18 / Maxwell Ridge Road for 2.3 miles. Turn right to C/R 40 Grouse Run Road and go for 0.4 miles. The entrance to the facility is on the right.
Registration Type: Modification
Description of Change: Application to modify a natural gas well pad by reducing condensate production, replacing GPUs with smaller units, removing enclosed combustor and flash gas compressor.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? No

Subject to 40CFR63, Subpart ZZZZ? No

Subject to 40CFR63, Subpart HH? No

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.

Permit Section Applicability for the Registrant

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

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

Section 5	Natural Gas Well Affected Facility	<input checked="" type="checkbox"/>
Section 6	Storage Vessels*	<input checked="" type="checkbox"/>
Section 7	Gas Production Units, In-Line Heaters, Heater Treaters, and Glycol Dehydration Reboilers	<input checked="" type="checkbox"/>
Section 8	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)	<input type="checkbox"/>
Section 9	<i>Reserved</i>	<input type="checkbox"/>
Section 10	Natural Gas-Fired Compressor Engine (s) (RICE)**	<input type="checkbox"/>
Section 11	Tank Truck Loading Facility***	<input checked="" type="checkbox"/>
Section 12	Standards of Performance for Storage Vessel Affected Facilities (NSPS, Subpart OOOO)	<input type="checkbox"/>
Section 13	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (NSPS, Subpart JJJJ)	<input type="checkbox"/>
Section 14	Control Devices not subject to NSPS, Subpart OOOO	<input type="checkbox"/>
Section 15	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40CFR63, Subpart ZZZZ)	<input type="checkbox"/>
Section 16	Glycol Dehydration Units	<input type="checkbox"/>
Section 17	Dehydration Units With Exemption from NESHAP Standard, Subpart HH § 63.764(d) (40CFR63, Subpart HH)	<input type="checkbox"/>
Section 18	Dehydration Units Subject to NESHAP Standard, Subpart HH and Not Located Within an UA/UC (40CFR63, Subpart HH)	<input type="checkbox"/>
Section 19	Dehydration Units Subject to NESHAP Standard, Subpart HH and Located Within an UA/UC (40CFR63, Subpart HH)	<input type="checkbox"/>

* The registrant may also be subject to the applicable control device requirements of Section 12 if the registrant is subject to the NSPS, Subpart OOOO control requirements or may be subject to the control device requirements of Section 14.

** The registrant may also be subject to the applicable RICE requirements of Section 13 and/or Section 15.

*** The registrant may also be subject to the applicable control device requirements of Section 14.

1.0 Emission Units Table

Emission Unit ID	Emission Point ID	Emission Unit Description (Mfg., Model, Serial No., Engine type 2SLB, 4SLB, 4SRB, etc.)	Control Device ID	Year Installed / Modified	Max. Design Capacity	Design Capacity Unit of Measure	G70-A Applicable Sections
H001	EP-H001	Heater Treater	--	2015	1.0	mmBtu/hr	7
H002	EP-H002	Heater Treater	--	2015	1.0	mmBtu/hr	7
H003	EP-H003	Heater Treater	--	2015	1.0	mmBtu/hr	7
H004	EP-H004	Heater Treater	--	2015	1.0	mmBtu/hr	7
H005	EP-H005	Heater Treater	--	2015	1.0	mmBtu/hr	7
H006	EP-H006	Heater Treater	--	2015	1.0	mmBtu/hr	7
H007	EP-H007	Heater Treater	--	2015	1.0	mmBtu/hr	7
TANKCOND001-004	TANKCOND001-004	Cond. Tank	--	2014	400	Bbl	6
TANKPW001-002	TANKPW001-002	P. Water Tank	--	2014	400	Bbl	6
L001	EP-L001	Cond./Water Loading	N/A	2015	107,310	Gal/year	11
Control Devices (If applicable)							
Control Device ID	Control Efficiency %	Control Device Description (Mfg, Model)	Year Installed / Modified	Max. Design Capacity	Design Capacity Unit of Measure	G-70A Applicable Sections	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Emission Reduction Systems						Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?						No	
Was a low pressure tower(s) used to determine emission limits?						No	

2.0 Oil and Natural Gas Wells Table

API number	API number	API number
047-017-06313-00		
047-017-06321-00		
047-017-06320-00		
047-017-06322-00		

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
H001-H007	EP-H001-H007	(7) 1.0mmBtu/hr GPU Heaters	Nitrogen Oxides	0.58	2.54
			Carbon Monoxide	0.49	2.13
TANKC OND001 -004	FL-001	(4) 400 BBL Condensate Tanks	Volatile Organic Compounds	3.28	14.40
			Total HAPs	0.04	0.19
L001	EP-L001	Cond./Prod. Water Truck Loading	Volatile Organic Compounds	30.43	0.16
			Total HAPs	0.09	--

4.0 Throughput Limitations

Throughput limits are on a 12-month rolling total basis.

Emission Unit ID	Emission Point ID	Emission Unit Description	Annual Throughput Limit
L001	EP-L001	Condensate Truck Loading	107,310 gal/yr

5.0 Reciprocating Internal Combustion Engines (R.I.C.E.) Information

Emission Unit ID	Engine Manufacturing Date	Subject to 40CFR60, Subpart JJJJ?	Subject to 40CFR63, Subpart ZZZZ?	Subject to Sections 10.1.4 / 10.2.1 (Catalytic Reduction Device)
N/A	N/A	N/A	N/A	N/A