



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

March 20, 2015

CERTIFIED MAIL
91 7199 9991 7032 6259 8352

Barry Schatz
1625 17th Street
Denver, CO 80202

RE: Approved Registration G70-A
G70-A108A
Antero Resources Corporation
Lemley Wellpad
Facility ID No. 017-00135

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-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. 1224 or David.J.Keatley@wv.gov.

Sincerely,



David Keatley
Permit Writer - NSR Permitting

Enclosures: Registration G70-A108A

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

*Earl Ray Tomblin
Governor*

*Randy C. Huffman
Cabinet Secretary*

**Class II General Permit
G70-A Registration to Class I
Administrative Update**



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-A108A

Issued to:
Antero Resources Corporation
Lemley Wellpad
017-00135

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

*William F. Durham
Director*

Issued: March 20, 2014

This Class II General Permit Registration will supersede and replace G70-A108.

Facility Location: near Smithburg, Doddridge County, West Virginia
Mailing Address: 1615 Wynkoop St.
Denver, CO 80202
Facility Description: Natural Gas/Condensate Production Facility
NAICS Code: 211111
SIC Code: 1311
UTM Coordinates: 527.572 km Easting • 4,353.042 km Northing • Zone 17
Longitude Coordinate: -80.68011
Latitude Coordinate: 39.32635
Directions to Facility: From the intersection of Old US 50 and CR 3 (Big Flint Rd.), travel north on CR3 for approximately 4.3 miles until the intersection of CR 20 (Howell Run Rd.). Turn left onto CR 20 and travel for approximately 1.4 miles. The entrance to the facility will be on the right.

Registration Type: Class I Administrative Update
Description of Change: Correction of NO_x and CO for the GPU heaters.

Subject to 40CFR60, Subpart OOOO? Yes, gas well affected facility.

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 checked="" 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
EU-H001 Through EU-H010	EP-H001 Through EP-H010	GPU Heaters	N/A	2014	1.0 (each)	MMBtu/hr	7
TANKCOND 001-006	FL001	Six (6) Condensate Tanks	FL001	2014	400 (each)	BBL	6
TANKPW 001-002	FL001	Two (2) Produced Water Tanks	FL001	2014	400 (each)	BBL	6
EU-L001 and EU-L002	EP-L001 And EP-L002	Condensate and Produced Water Truck Loading	None	2014	766,500 and 9,198,000 respectively	gallons/year	11, 14
Control Devices							
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	
FL001	98%	AbuTech 200 Combustor (Controlling TANKCOND and TANKPW)	2014	18.4	MMBtu/hr	12, 14	
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
047-017-06569-00	047-017-06570-00
047-017-06571-00	

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
TANKCOND 001-006 and TANKPW 001-002	FL001	AbuTec-200 Combustor (controlling Condensate Tanks and Produced Water Tanks)	Nitrogen Oxides	0.04	0.16
			Carbon Dioxide	0.03	0.14
			Volatile Organic Compounds	0.42	1.84
			n-Hexane	0.05	0.20
EU-H001 Through EU-H010	EP-H001 Through EP-H010	GPU Heaters (Total Emissions)	Nitrogen Oxides	0.83	3.63
			Carbon Monoxide	0.70	3.05
			Volatile Organic Compounds	0.05	0.20
			PM ₁₀	0.07	0.28

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
EU-L001	EP-L001	Condensate Truck Loading	766,500 gallons/year
EU-L002	EP-L002	Produced Water Truck Loading	9,198,000 gallons/yr
TANKCOND 001-006 And TANKPW 001-002	FL001	Combined Waste Gas (Condensate Tanks Waste Gas And Produced Water Waste Gas)	5.88 scfm