

*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 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-A029B

Issued to:
Antero Resources Corporation
Pierpoint Pad
095-00034

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

*William F. Durham
Director*

Issued: July 6, 2015

This registration will supersede and replace G70-A029A

Facility Location: Middlebourne, Tyler County, West Virginia
Mailing Address: 1615 Wynkoop Street, Denver, CO 80202
Facility Description: Natural Gas Production
NAICS Code: 211111
SIC Code: 1311
UTM Coordinates: 512.149 km Easting • 4,366.958 km Northing • Zone 17
Longitude Coordinates: -80.858794
Latitude Coordinates: 39.452103
Directions to Facility: From Clarksburg, head west on US-50 for 25.4 miles. Turn right onto WV-18 N for 0.6 miles, turn left onto Davis Street / Old US 50 W for 0.5 miles. Take second right back on to WV-18 N / Sistersville Pike for 16.8 miles. Turn left onto C/R 46 / Klondike Ridge for 2 miles. Turn right onto C/R 46/1 and the Pierpoint Pad will be on the right after 0.2 miles.
Registration Type: Modification
Description of Change: Modification of natural gas facility by increasing condensate production, installing vapor recovery units and vapor recovery towers, installing additional vapor combustor, installing thermoelectric generator and removing 24 hp Kubota engine.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? Yes

Subject to 40CFR63, Subpart ZZZZ? Yes, JJJJ Req's

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 checked="" 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 checked="" type="checkbox"/>
Section 13	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (NSPS, Subpart JJJJ)	<input checked="" 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 checked="" 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	--	2014	1.5	mmBtu/hr	7
H002	EP-H002	Heater Treater	--	2014	1.5	mmBtu/hr	7
H003	EP-H003	Heater Treater	--	2014	1.5	mmBtu/hr	7
H004	EP-H004	Heater Treater	--	2014	1.5	mmBtu/hr	7
H005	EP-H005	Heater Treater	--	2014	1.5	mmBtu/hr	7
H006	EP-H006	Heater Treater	--	2014	1.5	mmBtu/hr	7
H007	EP-H007	Heater Treater	--	2014	1.5	mmBtu/hr	7
H008	EP-H008	Heater Treater	--	2014	1.5	mmBtu/hr	7
TANKCOND001	FL-001	Condensate Tank	EC-001-002	2014	400	Bbl	6 & 14
TANKCOND002	FL-001	Condensate Tank	EC-001-002	2014	400	Bbl	6 & 14
TANKCOND003	FL-001	Condensate Tank	EC-001-002	2014	400	Bbl	6 & 14
TANKCOND004	FL-001	Condensate Tank	EC-001-002	2014	400	Bbl	6 & 14
TANKCOND005	FL-001	Condensate Tank	EC-001-002	2014	400	Bbl	6 & 14
TANKCOND006	FL-001	Condensate Tank	EC-001-002	2014	400	Bbl	6 & 14
TANKCOND007	FL-001	Condensate Tank	EC-001-002	2014	400	Bbl	6 & 14
TANKCOND008	FL-001	Condensate Tank	EC-001-002	2014	400	Bbl	6 & 14
TANKCOND009	FL-001	Condensate Tank	EC-001-002	2014	400	Bbl	6 & 14
TANKCOND010	FL-001	Condensate Tank	EC-001-002	2014	400	Bbl	6 & 14
TANKPW001	FL-001	Produced Water Tank	EC-001-002	2014	400	Bbl	6 & 14
TANKPW002	FL-0001	Produced Water Tank	EC-001-002	2014	400	Bbl	6 & 14
ENG001	EP-ENG001	Zenith ZPP 428 Engine	NSCR	2015	72	hp	10, 13 & 15
ENG002	EP-ENG002	Zenith ZPP 428 Engine	NSCR	2015	72	hp	10, 13 & 15
ENG003	EP-ENG003	Zenith ZPP 644 Engine	NSCR	2015	98	hp	10, 13 & 15
ENG004	EP-ENG004	Zenith ZPP 644 Engine	NSCR	2015	98	hp	10, 13 & 15
L001	EP-L001	Cond. Loading	--	2014	6,132,000	Gal/year	11
L002	EP-L002	P.W. Loading	--	2014	36,492,000	Gal/year	11
TEG001	EP-TEG001	T.E. Generator	--	2015	120	Watts	7

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
EC001	98	Cimmaron Model 48" HV ECD Flare	2014	90	Scfm	14
EC002	98	Cimmaron Model 48" HV ECD Flare	2015	90	Scfm	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?					Yes	

2.0 Oil and Natural Gas Wells Table

API number	API number	API number
047-095-02126	047-095-02203	
047-095-02200	047-095-02215	
047-095-02201	(2) Wells Not Permitted	
047-095-02202		

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
H001-H008	EP-H001-H008	(8) 1.5 mmBtu/hr Heater Treaters	Nitrogen Oxides	0.98	4.31
			Carbon Monoxide	0.83	3.62
TANKCO ND1-10	FL-001	(10) 400 BBL Condensate Tanks & Enclosed Combustors	Volatile Organic Compounds	5.33	23.37
			Total HAPs	0.31	1.34
			Nitrogen Oxides	0.58	2.56
			Carbon Monoxide	0.49	2.15
ENG001-ENG004	EP-ENG001-ENG004	(2) Zenith ZPP428 and (2) Zenith ZPP 644 Engines	Nitrogen Oxides	1.51	6.60
			Carbon Monoxide	2.46	10.77
			Volatile Organic Compounds	0.10	0.35
			Formaldehyde	0.07	0.31
L001	EP-L001	Condensate Truck Loading	Volatile Organic Compounds	15.78	19.23
			Total HAPs	0.07	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	24,528,000 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)
ENG001	2013	Yes	Yes (JJJJ Only)	Yes
ENG002	2013	Yes	Yes (JJJJ Only)	Yes
ENG003	2013	Yes	Yes (JJJJ Only)	Yes
ENG004	2013	Yes	Yes (JJJJ Only)	Yes