

***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 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-A034A**

**Issued to:**

**Antero Resources Corporation  
Corder East Well Pad  
033-00209**

A blue ink signature of William F. Durham is written over a horizontal line.

**William F. Durham**  
*Director*

*Issued: December 5, 2014 • Effective: December 5, 2014*

Facility Location: Industrial, Harrison County, West Virginia  
Mailing Address: 1625 17<sup>th</sup> Street, Denver, CO 80202  
Facility Description: Natural Gas Production  
NAICS Code: 211111  
SIC Code: 1311  
UTM Coordinates: 538.551 km Easting • 4,341.551 km Northing • Zone 17  
Longitude Coordinates: -80.553401  
Latitude Coordinates: 39.222389  
Directions to Facility: At the intersection of C/R 15 / Sherwood Greenbrier Road and Traugh Fork Road, continue to Traugh Fork Road and go for 1.8 miles. Continue to C/R 30 / Turtletree Fork Road and go for 0.6 miles. Turn right to C/R 30/1 and go for 0.6 miles. The entrance to the facility is on the right.  
Registration Type: Class II Administrative Update  
Description of Change: Removal of vapor recovery line from truck loading.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? No (No Engines)

Subject to 40CFR63, Subpart ZZZZ? No (No Engines)

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.*

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*The source is not subject to 45CSR30.*

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### 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 checked="" 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
H001	EP-H001	Heater Treater	--	2013	1.0	mmBtu/hr	7
H002	EP-H002	Heater Treater	--	2013	1.0	mmBtu/hr	7
H003	EP-H003	Heater Treater	--	2013	1.0	mmBtu/hr	7
H004	EP-H004	Heater Treater	--	2013	1.0	mmBtu/hr	7
H005	EP-H005	Heater Treater	--	2013	1.0	mmBtu/hr	7
H006	EP-H006	Heater Treater	--	2013	1.0	mmBtu/hr	7
H007	EP-H007	Heater Treater	--	2013	1.0	mmBtu/hr	7
H008	EP-H008	Heater Treater	--	2013	1.0	mmBtu/hr	7
H009	EP-H009	Heater Treater	--	2013	1.0	mmBtu/hr	7
H010	EP-H010	Heater Treater	--	2013	1.0	mmBtu/hr	7
H011	EP-H011	Heater Treater	--	2013	1.0	mmBtu/hr	7
TANK001	FL-001	Cond./Water Tank	FL-001	2013	400	Bbl	6 & 14
TANK002	FL-001	Cond./Water Tank	FL-001	2013	400	Bbl	6 & 14
TANK003	FL-001	Cond./Water Tank	FL-001	2013	400	Bbl	6 & 14
TANK004	FL-001	Cond./Water Tank	FL-001	2013	400	Bbl	6 & 14
TANK005	FL-001	Cond./Water Tank	FL-001	2013	400	Bbl	6 & 14
TANK006	FL-001	Cond./Water Tank	FL-001	2013	400	Bbl	6 & 14
TANK007	FL-001	Cond./Water Tank	FL-001	2013	400	Bbl	6 & 14
TANK008	FL-001	Cond./Water Tank	FL-001	2013	400	Bbl	6 & 14
TANK009	FL-001	Cond./Water Tank	FL-001	2013	400	Bbl	6 & 14
L001	EP-L001	Cond./Water Loading	N/A	2013	1,424,920	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
FL001	98	Cimmaron Model 48" HV ECD Flare	2014	90	Scfm	I4
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
047-033-05711-00	047-033-05705-00	047-033-05651-00
047-033-05709-00	047-033-05704-00	047-033-05677-00
047-033-04714-00	047-033-05710-00	047-033-05708-00
047-033-05715-00	047-033-05659-00	

## 3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
H001-H011	EP-H001-H011	(11) 1.0mmBtu/hr GPU Heaters	Nitrogen Oxides	0.98	4.30
			Carbon Monoxide	0.82	3.61
TANK001-009	FL-001	(9) 400 BBL Cond./Produced Water Tanks & Flare	Volatile Organic Compounds	0.04	0.18
			Total HAPs	0.01	0.01
L001	EP-L001	Cond./Prod. Water Truck Loading	Volatile Organic Compounds	0.56	0.04
			Total HAPs	--	--

## 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	1,424,920 gal/yr
TANK001-004	FL001	Condensate Tanks (Total)	1,424,920 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