



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

February 17, 2016

CERTIFIED MAIL
91-7199 9991 7034 3222 9192

Kenneth Kirk
EQT Production Company
625 Liberty Avenue, Suite 1700
Pittsburgh, PA 15222

RE: **Approved Registration G70-A014A**
EQT Production Company
PNG-129 Pad
Facility ID No. 103-00081

Dear Mr. Kirk,

The Director has determined that the submitted Registration Application and proposed construction 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. 1223 or jerry.williams@wv.gov.

Sincerely,

Jerry Williams, P.E.
Engineer

Enclosures: Registration G70-A014A

c: Alex Bosiljevac

*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-A014A

Issued to:
EQT Production Company
PNG-129 Pad
103-00081

A blue ink signature of William F. Durham, written in a cursive style, is positioned above a horizontal line.

*William F. Durham
Director*

Issued: February 17, 2016

Facility Location: Pine Grove, Wetzel County, West Virginia
Mailing Address: 625 Liberty Avenue, Suite 1700, Pittsburgh, PA 15222
Facility Description: Natural gas production facility
NAICS Code: 211111
SIC Code: 1311
UTM Coordinates: 530.9 km Easting • 4,378.1 km Northing • Zone 17
Longitude Coordinates: -80.64074
Latitude Coordinates: 39.552397
Directions to Facility: SR-20 to Jacksonburg. East on CR-7/6 / Richwood Run for 1.96mi. 1st Left (NE) on CR-15/2 for 2.66mi. 1st Left (W) on Sheep Run for 0.46mi. 1st Left (SW) off Sheep Run (Shutz Cemetery) onto Lowman Ridge. Follow this main road back to PNG-129. Total distance from SR-20/CR-7/6 to PNG-129 pad is 8.6mi.
Registration Type: Modification
Description of Change: Installation and operation of two (2) combustors, two (2) thermoelectric generator units, and two (2) sand separator tanks.

Subject to 40CFR60, Subpart OOOO? Yes. Gas Wells.

Subject to 40CFR60, Subpart JJJJ? No engines.

Subject to 40CFR63, Subpart ZZZZ? No engines.

Subject to 40CFR63, Subpart HH? No dehydration units.

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
S001 - S014	C001 – C004	Produced Fluids Tanks	C001 – C004	2014	400	bbl	Section 6 Section 14
S015 - S027	E015 - E027	Line Heaters	N/A	2014	1.54	MMBtu/hr	Section 7
S028 – S031	E028 – E031	Thermoelectric Generators (TEG)	N/A	2014, 2016	0.013	MMBtu/hr	Section 7
Liquid Loading	C001 – C004	Condensate Loading	N/A	2014, 2016	20,128,248	gal/yr	Section 11 Section 14
C001	C001	Vapor Combustor	N/A	2014	11.66	MMBtu/hr	Section 14
C002	C002	Vapor Combustor	N/A	2014	11.66	MMBtu/hr	Section 14
C003	C003	Vapor Combustor	N/A	2016	19.22	MMBtu/hr	Section 14
C004	C004	Vapor Combustor	N/A	2016	19.22	MMBtu/hr	Section 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	
C001	98	48" LEED Fabrication Enclosed Vapor Combustor	2014	11.66	MMBtu/hr	Section 14	
C002	98	48" LEED Fabrication Enclosed Vapor Combustor	2014	11.66	MMBtu/hr	Section 14	
C003	98	60" LEED Fabrication Enclosed Vapor Combustor	2016	19.22	MMBtu/hr	Section 14	
C004	98	60" LEED Fabrication Enclosed Vapor Combustor	2016	19.22	MMBtu/hr	Section 14	
Emission Reduction Systems						Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?						No	N/A
Was a low pressure tower(s) used to determine emission limits?						No	N/A

2.0 Oil and Natural Gas Wells Table

API number	API number	API number
047-103-02868	047-103-02874	047-103-02971
047-103-02869	047-103-0287	047-103-02972
047-103-02870	047-103-02876	047-103-02968
047-103-02872	047-103-02969	
047-103-02873	047-103-02970	

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
S001-S014, S034	C001 – C002	Condensate Tanks and Loading controlled w/Vapor Combustor ¹	Nitrogen Oxides (NOx)	1.15	5.02
			Carbon Monoxide (CO)	0.96	4.22
			Total Particulate Matter-10	0.09	0.38
			Volatile Organic Compounds (VOC)	1.66	5.85
			Hazardous Air Pollutants (HAPs)	0.11	0.39
S001-S014, S034	C003 – C004	Condensate Tanks and Loading controlled w/Vapor Combustor ¹	Nitrogen Oxides (NOx)	1.89	8.28
			Carbon Monoxide (CO)	1.59	6.95
			Total Particulate Matter-10	0.14	0.63
			Volatile Organic Compounds (VOC)	1.66	5.85
			Hazardous Air Pollutants (HAPs)	0.11	0.39
S015 – S027	E007 – E008	Line Heater ²	Nitrogen Oxides (NOx)	0.15	0.64
			Carbon Monoxide (CO)	0.12	0.54
			Total Particulate Matter (PM)	0.01	0.05
			Volatile Organic Compounds (VOC)	0.01	0.04
Uncaptured Liquid Loading	N/A	Condensate Loading	Volatile Organic Compounds (VOC)	29.80	7.75
			Hazardous Air Pollutants (HAPs)	1.67	0.43

¹Emission limits for each vapor combustor.

²Emission limits for each line heater.

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
S001 – S014	C001 – C004	400 bbl Condensate Tanks	20,128,248 gal condensate/yr (ALL TANKS COMBINED)
Liquid Loading	N/A	Condensate Loading	20,128,248 gal condensate/yr

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

N/A