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**west virginia department of environmental protection**

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Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone 304/926-0475

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

April 21, 2016

CERTIFIED MAIL

91 7199 9991 7035 6613 6328

Kenneth Kirk  
625 Liberty Avenue, Suite 1700  
Pittsburgh, PA 15222

RE: Approved Registration G70-A044B  
EQT Production Company  
PEN-15 Pad  
Facility ID No. 085-00022

Dear Mr. Kirk:

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](http://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](mailto:Roy.F.Kees@wv.gov).

Sincerely,

Roy F. Kees, P.E.  
Engineer - NSR Permitting

Enclosures: Registration G70-A044B  
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-A044B**

**Issued to:  
EQT Production Company  
PEN 15 Pad  
085-00022**

  
\_\_\_\_\_  
*William F. Durham*  
Director

*Issued: April 21, 2016*

This Class II General Permit Registration will supercede and replace G70-A044A.

Facility Location: Pennsboro, Ritchie 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: 4,345.8 km Easting • 504.2 km Northing • Zone 17  
Longitude Coordinates: -80.95179  
Latitude Coordinates: 39.26205  
Directions to Facility: From Pennsboro, WV, go east on Old US 50 for approximately 1 mile and then turn right onto Pullman Drive (Route 74) and go approximately 1.5 miles. Turn left onto access road to the site.  
Registration Type: Modification  
Description of Change: Add one low pressure separator heater and one VRU engine.

Subject to 40CFR60, Subpart OOOO? Yes, gas wells and pneumatic controllers.

Subject to 40CFR60, Subpart JJJJ? Yes, Certified

Subject to 40CFR63, Subpart ZZZZ? Yes, JJJJ Only

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 checked="" 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 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
S001 S002 S003 S004 S005 S006	E001 E002 E003 E004 E005 E006	Storage Tank	C001 - C004	2013	400 (each)	bbbl	6.0, 14.0
S013 S014 S015 S016 S017 S018	E013 E014 E015 E016 E017 E018	Storage Tank	C001 - C004	2014	400 (each)	bbbl	6.0, 14.0
S007 S008 S009 S010 S011	E007 E008 E009 E010 E011	Line Heater	N/A	2013	1.54	MMBtu/hr	7.0
S019 S020 S021 S022 S023	E019 E020 E021 E022 E023	Line Heater	N/A	2014	1.54	MMBtu/hr	7.0
S012	E012	Thermoelectric Generator	N/A	2013	0.013	MMBtu/hr	7.0
S024	E024	Thermoelectric Generator	N/A	2014	0.013	MMBtu/hr	7.0
S025	E025	Thermoelectric Generator	N/A	2015	0.013	MMBtu/hr	7.0
S026	E026	Sand Separator Tank	N/A	2015	140	Bbl	6.0
S027	E027	Sand Separator Tank	N/A	2015	140	Bbl	6.0
S029	E029	LPS Heater	N/A	2016	1.0	MMBtu/hr	7.0
S030	E030	Ford VRU Engine	N/A	2016	110	Hp	10,13,15
n/a	n/a	Condensate Tank Truck Loading	C001 - C004	2013	18.576	MMGal/yr	11.0

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%	Enclosed Combustion Device	2013	11.66	MMBtu/hr	14.0
C002	98%	Enclosed Combustion Device	2014	11.66	MMBtu/hr	14.0
C003	98%	Enclosed Combustion Device	2015	18.75	MMBtu/hr	14.0
C004	98%	Enclosed Combustion Device	2015	18.75	MMBtu/hr	14.0
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
047-085-09929	047-085-09930	047-085-09931
047-085-09932	047-085-09933	047-085-10093
047-085-10094	047-085-10095	047-085-10096
047-085-10097		

## 3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
S001-S006 S013-S018,	E001-E006 E013-18	(12) Condensate Tanks and (4) Vapor Combustors	Volatile Organic Compounds	5.30	23.22
			Total HAPs	0.42	1.85
			Nitrogen Oxides	5.98	25.50
			Carbon Monoxide	5.02	22.00
S007-S011 S019-S023, S029	E007-11,19-23	(10) Line Heaters (1) LPS Heater	Nitrogen Oxides	1.56	6.82
			Carbon Monoxide	1.31	5.75
S028	E028	Truck Loading	Volatile Organic Compounds	--	0.09
			Total HAPs	--	--
S030	E030	Ford VRU Engine	Nitrogen Oxides	0.24	1.06
			Carbon Monoxide	0.48	2.12
			Volatile Organic Compounds	0.18	0.81

#### 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
S028	E028	Condensate Loading Operations	18,576,000 gallons

#### 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)
S030	>June 2012	Yes (Certified)	Yes	No