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

December 8, 2015

CERTIFIED MAIL
91 7199 9991 7035 6692 5830

Kenneth Kirk
625 Liberty Avenue
Suite 1700
Pittsburgh, PA 15222

RE: Approved Registration G70-A
G70-A151A
EQT Production Company
WEU-49 Pad
Facility ID No. 017-00150

Dear Mr. Kirk:

The Director has determined that the submitted Registration Application and proposed construction and operation of a natural gas compressor station 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.

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.

Sincerely,

David Keatley

David Keatley
Engineer - NSR Permitting

Enclosures: Registration G70-A151A
General Permit G70-A

West Virginia Department of Environmental Protection
Division of Air Quality

Earl Ray Tomblin
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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-A151A

Issued to:
EQT Production Company
WEU-49 Pad
017-00150

William F. Durham
Director

Issued: December 8, 2015

This Class II General Permit Registration will supersede and replace G70-A151.

Facility Location:	near West Union, Doddridge 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:	518.413 km Easting • 4,345.066 km Northing • Zone 17
Longitude Coordinate:	-80.78660
Latitude Coordinate:	39.25473
Directions to Facility:	From US 50 take CR11 (Arnolds Creek Road) south. Travel on CR 11 for approximately 0.7 miles and turn left onto CR 11/4 (Left Fork Run). Travel on CR 11/4 for approximately 2.1 miles and the access road for the facility is on the left.
Registration Type:	Class I Administrative Update
Description of Change:	Installation and operation of seven (7) 1.0-mmBtu/hr line heaters, eight (8) 400-bbl produced liquid tanks, two (2) 11.66-mmBtu/hr combustors, two (2) 0.013-mmBtu/hr thermoelectric generators, and one (1) 140-bbl sand trap blowdown tank.

Subject to 40CFR60, Subpart OOOO?	Yes
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	☒
Section 6	Storage Vessels*	☒
Section 7	Gas Production Units, In-Line Heaters, Heater Treaters, and Glycol Dehydration Reboilers	☒
Section 8	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)	☐
Section 9	*Reserved*	☐
Section 10	Natural Gas-Fired Compressor Engine (s) (RICE)**	☐
Section 11	Tank Truck Loading Facility***	☒
Section 12	Standards of Performance for Storage Vessel Affected Facilities (NSPS, Subpart OOOO)	☐
Section 13	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (NSPS, Subpart JJJJ)	☐
Section 14	Control Devices not subject to NSPS, Subpart OOOO	☒
Section 15	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40CFR63, Subpart ZZZZ)	☐
Section 16	Glycol Dehydration Units	☐
Section 17	Dehydration Units With Exemption from NESHAP Standard, Subpart HH § 63.764(d) (40CFR63, Subpart HH)	☐
Section 18	Dehydration Units Subject to NESHAP Standard, Subpart HH and Not Located Within an UA/UC (40CFR63, Subpart HH)	☐
Section 19	Dehydration Units Subject to NESHAP Standard, Subpart HH and Located Within an UA/UC (40CFR63, Subpart HH)	☐

* 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
S008 - S015	E017 or E018	Produced Liquid Tanks	C017 or C018	2015	400	bbl	Section 6 Section 14
S001 - S007	E001 - E007	Line Heaters	N/A	2015	1.00	MMBtu/hr	Section 7
S019 – S020	E019 – E020	Thermoelectric Generators (TEG)	N/A	2015	0.013	MMBtu/hr	Section 7
S021	E017 or E18	Sand Trap Blowdown Tank	C017 or C018	2015	138	bbl	Section 6 Section 14
S015	E017 or E018	Liquid Loading	C017 or C018	2015	7,668,650	MMgal/yr	Section 11
C017	E017	Vapor Combustor	N/A	2015	11.66	mmBtu/hr	Section 14
C018	E018	Vapor Combustor	N/A	2015	11.66	mmBtu/hr	Section 14

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
C017	98%	48" LEED Fabrication Combustor	2015	130	scf/min	Section 14
C018	98%	48" LEED Fabrication Combustor	2015	130	scf/min	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
047-017-06443	047-017-06444	047-017-06445
047-017-06446	047-017-06447	047-017-06448
047-017-06449		

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
S008 – S015 And S015, S016, and S021	C017	Produced Liquid Tanks (controlled w/ Combustor)	Nitrogen Oxides (NOx)	1.07	4.71
			Carbon Monoxide (CO)	0.90	3.95
			Total Particulate Matter (PM)	0.08	0.63
			Volatile Organic Compounds (VOC)	1.68	7.34
S008 – S015 And S015, S016, and S021	C018	Produced Liquid Tanks (controlled w/ Combustor)	Nitrogen Oxides (NOx)	1.07	4.71
			Carbon Monoxide (CO)	0.90	3.95
			Total Particulate Matter (PM)	0.08	0.63
			Volatile Organic Compounds (VOC)	1.68	7.34
S001 – S007	E001 – E007	Line Heater (Emissions from Each)	Nitrogen Oxides (NOx)	0.09	0.40
			Carbon Monoxide (CO)	0.08	0.34

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
S008 – S015	C017 or C018	400 bbl Condensate Tanks	7,668,650 gallons/year
S015	C017 or C018	Liquid Loading	7,668,650 gallons/year

5.0 Reciprocating Internal Combustion Engines (R.I.C.E.) Information *(N/A)*

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)
No RICE				