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

March 11, 2016

CERTIFIED MAIL
91 7199 9991 7035 6692 5984

Kenneth Kirk
625 Liberty Avenue
Suite 1700
Pittsburgh, PA 15222

RE: Approved Registration G70-A
G70-A188
EQT Production Company
GLO-76
Facility ID No. 049-00188

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-A188
General Permit G70-A

West Virginia Department of Environmental Protection
Division of Air Quality

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Class II General Permit
G70-A Registration to Construct

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-A188

Issued to:
EQT Production Company
GLO-76
049-00188

William F. Durham
Director

Issued: March 11, 2016

Facility Location:	near Mannington, Marion 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:	515.746 km Easting • 4,337.873 km Northing • Zone 17
Longitude Coordinate:	-80.81767
Latitude Coordinate:	39.189997
Directions to Facility:	The directions to the facility from the application are: Head North on I-79 to exit 136. At the bottom of the ramp make a left on to Fairmont Gateway Connector, then go 1.2 miles going straight through two traffic circles. Continue straight onto Jefferson St. crossing the bridge, for 0.4 miles. Turn left onto Jackson St. and continue 0.1 miles to U.S. Rt. 250 North. Turn right and go 13.4 miles to Market Street, then turn left. Travel 0.1 miles, continue on Buffalo St. Continue 5.9 miles, then turn left onto Brink Road (Co Rt. 1). Travel 4.5 miles to access road on right.
Registration Type:	Construction
Description of Change:	Installation and operation of: ten (10) 400-bbl produced liquid tanks, one (1) 140-bbl sand separator tank, nine (9) 1.54-mmBtu/hr line heaters, three (3) 0.013-mmBtu/hr thermoelectric generators, one (1) 65-mmscfd triethylene glycol (TEG) dehydration unit with associated 0.75-mmBtu/hr reboiler, one 100-bbl drip tank, and one (1) 8.33-mmBtu/hr enclosed combustor.

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
S012 – S020	E012 – E020	Line Heaters	N/A	2016	1.54	mmBtu/hr	Section 7
S021-S023	E021 – E023	Thermoelectric Generators	N/A	2016	0.013	mmBtu/hr	Section 7
S001 – S010	E001-E010	Produced Liquid Tanks	None	2016	400	bbl	Section 6 Section 14
S011	E011	Sand Separator Tank	None or C001	2016	140	bbl	Section 6
S037	E037	Tank Truck Liquid Loading	None	2016	9.972	mmgal/yr	Section 11
S024	E024	TEG Dehydration Unit	C001	2016	65	mmscf/day	Section 16 Section 17
S025	E025	Reboiler	None	2016	0.75	mmBtu/hr	Section 7
C001	C001	Enclosed Combustor	N/A	2016	8.33	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
C001	98%	36" LEED Enclosed Combustor	2016	93	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
047-049-02346	047-049-02347	

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
S024 and C001	C001	Enclosed Combustor (Controlling Flash Tank and Still Vent Vapors)	Nitrogen Oxides (NOx)	0.76	3.32
			Carbon Monoxide (CO)	0.12	0.51
			Volatile Organic Compounds (VOC)	0.29	1.25
			Benzene	0.01	0.02
S012 – S020	E012 – E020	Line Heater 1.54 mmBtu/hr (emissions per each)	Nitrogen Oxides (NOx)	0.14	0.61
			Carbon Monoxide (CO)	0.12	0.51

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-S01, S037, and S031	E001-E011, E037, and E31	Tank Emissions and Liquid Loading	9,972,333 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				