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 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-A100
Issued to:
Chesapeake Appalachia, L.L.C.
Violet Coss BRK Pad
009-00127

William F. Durham
Director

Issued: December 15, 2014 • *Effective: December 15, 2014*

This Class II General Permit Registration does not affect any other permits.

Facility Location:	Wellsburg, Brooke County, West Virginia
Mailing Address:	P.O. Box 18496, Oklahoma City, OK 73154-0496
Facility Description:	Natural gas production facility
NAICS Code:	211111
SIC Code:	1311
UTM Coordinates:	532.1254 km Easting • 4,455.7638 km Northing • Zone 17
Longitude Coordinates:	-80.62226
Latitude Coordinates:	40.25171
Directions to Facility:	From I-70 East in Wheeling, take exit 1A. Turn right at the bottom of the off ramp onto SR2 north and travel north to the community of Beech Bottom and turn right (east) onto 49 Hill Road. Travel approximately 1 mile on 49 Hill Road to CR 28 (Apple Pie Ridge Road) and turn left onto CR 28. Travel approximately 1 mile on CR 28 to CR 67/1 (Green Run Road) and turn left onto CR 67/1. Travel 0.1 mile on CR 67/1 and turn left onto Coss Road. Travel 1.8 miles on Coss Road to well pad access road on right.
Registration Type:	Construction
Description of Change:	Construction and operation of an oil and natural gas production facility that will include the installation of one (1) natural gas fired flash gas compressor engine, one (1) natural gas fired vapor recovery unit (VRU) compressor engine, one (1) gas production unit (GPU) burner, one (1) heater treater, two (2) 400 barrel (bbl) condensate tanks, two (2) 400 bbl produced water tanks, condensate truck loading and produced water truck loading.

Subject to 40CFR60, Subpart OOOO?	Yes.
Subject to 40CFR60, Subpart JJJJ?	Yes. EU-ENG1 and EU-ENG2.
Subject to 40CFR63, Subpart ZZZZ?	Yes. Compliance is demonstrated for EU-ENG1 and EU-ENG2 by complying with 40CFR60 Subpart JJJJ.
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
EU-ENG1	EP-ENG1	Caterpillar G3306NA 4SRB	NSCR	2014	145	HP	10, 13, 15
EU-ENG2	EP-ENG2	Zenith ZPP-644 4SRB	NSCR	2014	77	HP	10, 13, 15
EU-GPU1	EP-GPU1	GPU Burner	None	2014	1.0	MMBTU/hr	7
EU-HT1	EP-HT1	Heater Treater	None	2014	0.5	MMBTU/hr	7
EU-TANKS-COND	EP-TANKS-COND	Two (2) Condensate Tanks	APC-COMB-TKLD	2014	400	bbl each	6
EU-TANKS-PW	EP-TANKS-PW	Two (2) Produced Water Tanks	APC-COMB-TKLD	2014	400	bbl each	6
EU-LOAD-COND	EP-LOAD-COND	Condensate Truck Loading	APC-COMB-TKLD	2014	4,139,100	gal/yr	11
EU-LOAD-PW	EP-LOAD-PW	Produced Water Truck Loading	APC-COMB-TKLD	2014	3,066,000	gal/yr	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
NSCR EU-ENG1	NO_x – 86.3 % CO – 86.3 %	NSCR	2014	NA	NA	10
NSCR EU-MC4907	NO_x – 2.7 g/kW-hr CO – 4.4 g/kW-hr VOC – 2.7 g/kW-hr	NSCR	2014	NA	NA	10

Emission Reduction Systems	Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?	Yes	10
Was a low pressure tower(s) used to determine emission limits?	No	NA

2.0 Oil and Natural Gas Wells Table

API number	API number	API number
047-009-00146		

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
EU-ENG1	EP-ENG1	145 HP Caterpillar G3306NA RICE	Nitrogen Oxides	0.64	2.80
			Carbon Monoxide	0.64	2.80
			Volatile Organic Compounds	0.34	1.49
EU-ENG2	EP-ENG2	77 HP Zenith ZPP-644 RICE	Nitrogen Oxides	0.34	1.49
			Carbon Monoxide	0.55	2.41
			Volatile Organic Compounds	0.34	1.49
EU-TANKS-COND	EP-TANKS-COND	Two (2) Condensate Tanks	Volatile Organic Compounds	6.44	28.19
			Hazardous Air Pollutants	0.52	2.28
EU-TANKS-PW	EP-TANKS-PW	Two (2) Produced Water Tanks	Volatile Organic Compounds	0.01	0.02
			Hazardous Air Pollutants	<0.01	<0.01

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
EU-TANKS-COND	EP-TANKS-COND	Two (2) 400 bbl Condensate Tanks	4,139,000 gal/yr (All tanks combined)
EU-TANKS-PW	EP-TANKS-PW	Two (2) 400 bbl Produced Water Tanks	3,066,000 gal/yr (All tanks combined)
EU-LOAD-COND	EP-LOAD-COND	Condensate Truck Loading	4,139,000 gal/yr
EU-LOAD-PW	EP-LOAD-PW	Produced Water Truck Loading	3,066,000 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)
EU-ENG1	2014	Yes	Yes	Yes
EU-ENG2	2013	Yes	Yes	Yes