

*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-A009A

Issued to:
American Energy - Marcellus, LLC
Long 408/409
103-00080

A handwritten signature in blue ink, appearing to read "William F. Durham", is written over a horizontal line.

*William F. Durham
Director*

Issued: February 27, 2015

Facility Location: Pine Grove, Wetzel County, West Virginia
Mailing Address: 5260 DuPont Road, Perkersburg, WV 26101
Facility Description: Natural Gas Production Wellpad
NAICS Code: 211111
SIC Code: 1311
UTM Coordinates: 527.792 km Easting • 4,381.585 km Northing • Zone 17
Longitude Coordinates: 39.58402
Latitude Coordinates: -80.67526
Directions to Facility: Route 7 East out of New Martinsville towards Morgantown, Bear right on Route 20 towards Pine Grove, left onto North Fork C/R 15/17, left onto Baker Run C/R 17, left onto McKimmie Ridge C/R 17/1, left on C/R 40, right on lease road.
Registration Type: Construction
Description of Change: Application to modify a natural gas production wellpad by adding a condensate stabilizer, changing the design capacity of the GPUs and Flash Separator Heaters, removal of VRU and backup flare, addition of an enclosed vapor combustor.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? Yes, Not 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.

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 checked="" 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 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
1S-11S	1E-11E	(11) GPU Berners	N/A	2014	1.0	MMBtu/hr	7.0
12S-19S	12E-19E	Condensate Tanks	31E	2014	210	BBl	6.0, 14.0
20S-27S	20E-27E	Prod. Water Tanks	31E	2014	210	BBl	6.0, 14.0
28S-29S	28E-29E	Flash Sep. Heaters	N/A	2014	1.0	MMBtu/hr	7.0
32S	32E	Cond. Truck Loading	N/A	2014	600	BBl/day	11.0, 14.0
33S	33E	Prod. Water Loading	N/A	2014	600	BBl/day	11.0
35S	35E	USA Compressor Engine	NSCR	2014	118	Bhp	13.0
36S	36E	Condensate Stabilizer Heater	N/A	2014	0.75	MMBtu/hr	7.0
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	
31S	31E	Enclosed Vapor Combustor	2014	35.42	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	
Was a low pressure tower(s) used to determine emission limits?						No	

2.0 Oil and Natural Gas Wells Table

API number	API number	API number
47-103-02887	47-103-02878	47-103-02883
47-103-02888	47-103-02879	
47-103-02889	47-103-02880	
47-103-02890	47-103-02881	
47-103-02891	47-103-02882	

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
1S-11S	1E-11E	(11) GPU Burners	Nitrogen Oxides	0.86	3.75
			Carbon Monoxide	0.72	3.15
12S-19S	12E-19E	(8) Condensate Tanks	Volatile Organic Compounds	0.04	0.19
			Total Hazardous Air pollutants	<0.01	<0.01
28S-29S	28E-29E	(2) Flash Sep. Heaters	Nitrogen Oxides	0.16	0.68
			Carbon Monoxide	0.13	0.57
32S	32E	Cond. Tank Truck Loading	Volatile Organic Compounds	7.32	32.08
			Total Hazardous Air Pollutants	0.57	2.48
31S	31E	Backup Flare	Nitrogen Oxides	1.43	6.28
			Carbon Monoxide	1.20	5.27
			PM _{2.5} /PM ₁₀ /PM	0.11	0.48
			Volatile Organic Compounds	0.08	0.35
35S	35E	Compressor	Nitrogen Oxides	0.52	2.28
			Carbon Monoxide	1.04	4.56
			Volatile Organic Compounds	0.26	1.14
			Formaldehyde	0.02	0.09
36S	36E	Condensate Stabilizer	Nitrogen Oxides	0.06	0.26
			Carbon Monoxide	0.05	0.21

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
32S	32E	Condensate Tank Truck Loading	10,960,950 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)
35S	November 3, 2008	Yes	Yes (JJJJ Only)	Yes