

*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-A124A**

Issued to:

**American Energy-Marcellus, LLC  
WJ Criswell 405  
103-00098**

A blue ink signature of William F. Durham, written in a cursive style, positioned above a horizontal line.

*William F. Durham  
Director*

*Issued: June 30, 2015*

This permitting action supersedes and replaces G70-A124.

Facility Location: Wileyville, Wetzel County, West Virginia  
Mailing Address: 301 NW 63<sup>rd</sup> St.  
Suite 600  
Oklahoma City, OK 73116  
Facility Description: Natural Gas Production  
NAICS Code: 211111  
SIC Code: 1311  
UTM Coordinates: 532.769 km Easting • 4,384.25 km Northing • Zone 17  
Longitude Coordinates: -80.6183  
Latitude Coordinates: 39.6074  
Directions to Facility: Take I-77 north to Parkersburg and get off at exit 179. Take State Route 2 north approximately 43 miles to New Martinsville. Then turn right (east) on State Route 7 and go 17.2 miles. Turn right on Co. Rt. 17 (Barkers Run) and proceed 1.1 miles. Next, turn left on Co. Rt 58 (Hoyt Ridge) and go approximately 2.6 miles and the access road will be on the right. There is a guard shack near the intersection of Co. Rt. 58 and the access road. Proceed 0.4 miles on the access road to the well pad.  
Registration Type: Modification

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? Yes, Non-Certified (ENG-1) and Certified (ENG-2)

Subject to 40CFR63, Subpart ZZZZ? Yes, Subpart JJJJ Requirements 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 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 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 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
GPU-1	1E	GPU	--	2015	1.5	Mmbtu/hr	7
GPU-2	2E	GPU	--	2015	1.5	Mmbtu/hr	7
GPU-3	3E	GPU	--	2015	1.5	Mmbtu/hr	7
HTR-1	4E	Line Heater	-	2015	1.5	mmBtu/hr	7
HTR-2	5E	Line Heater	-	2015	1.5	mmBtu/hr	7
HTR-3	6E	Line Heater	-	2015	1.5	mmBtu/hr	7
SEP-1	7E	Flash Separator Heater	--	2015	1	Mmbtu/hr	7
ENG-1	8E	Caterpillar 4SRB Compressor Engine	--	2015	118	Bhp	10,13,15
ENG-2	9E	HIPOWER HRGM 30 T6 Generator Engine	-	2015	47	bhp	10, 13, 15
PTK-1	10E	Produced Water Tank	CTLR-1	2015	400	Bbl	6,14
PTK-2	10E	Produced Water Tank	CTLR-1	2015	400	Bbl	6,14
PTK-3	10E	Produced Water Tank	CTLR-1	2015	400	Bbl	6,14
CTK-1	10E	Condensate Tank	CTLR-1	2015	400	Bbl	6,14
CTK-2	10E	Condensate Tank	CTLR-1	2015	400	Bbl	6,14
CTK-3	10E	Condensate Tank	CTLR-1	2015	400	Bbl	6,14
CS-1	11E	Condensate Stabilizer Heater	--	2015	0.75	Mmbtu/hr	7
TRL-1	12E	Condensate Truck Loading	--	2015	195	Bbl/day	11
TRL-2	13E	Produced Water Truck Loading	--	2015	195	Bbl/day	11
<b>Control Devices (If applicable)</b>							
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	
CTLR-1	98%	National Oilwell Varco Model MEVC200 18.42 mmbtu/hr enclosed combustor	2015	200,000	scfd	14	
<b>Emission Reduction Systems</b>						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
47-103-029740000	47-103-029770000	47-103-029780000

## 3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
GPU1 through GPU-3  HTR-1 through HTR-3	1E-6E	GPUs and Line Heater (Emission Limits for each)	CO	0.10	0.43
			NOx	0.12	0.51
SEP-1	7E	1 mmbtu/hr flash separator heater	CO	0.07	0.29
			NOx	0.08	0.34
ENG-1	8E	118hp Compressor Engine	CO	0.52	2.28
			NOx	0.26	1.14
			VOCs	0.19	0.80
ENG-2	9E	HIPOWER Generator Engine	CO	0.37	1.63
			NOx	0.61	2.68
			Formaldehyde	0.03	0.12
PTK-1 through PTK-3  CTK-1 through CTK-3	10E	Produced Water Tanks and Condensate Tanks Controlled by a Combustor	NOx	1.43	6.28
			CO	1.21	5.28
			VOCs	0.68	2.96
CS-1	11E	Cond. Stabilizer Heater	CO	0.05	0.21
			NOx	0.06	0.26
TRL-1 and TRL-2	12E And 13E	Truck Loading	VOCs	17.5	8.75
			HAPs	1.36	0.68

## 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
14S	14E	Condensate Truck Loading	2,989,350 gallons
15S	15E	Produced Water Truck Loading	2,989,350 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)
ENG-1	4/18/2014	Yes	Yes	Yes
ENG-2	2014	Yes	Yes	No