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 30, 2016

CERTIFIED MAIL
91 7199 9991 7035 6613 6014

Tim Cummings, Director - Operations
301 NW 63rd, Suite 600
Oklahoma City, OK 73116

RE: Approved Registration G70-A009B
American Energy - Marcellus, LLC
Long 408/409
Facility ID No. 103-00080

Dear Mr. Cummings:

The Director has determined that the submitted Registration Application and proposed construction and operation of an oil and natural gas production facility 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.

General Permit G70-A can be accessed electronically at www.dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx. Hard copies are available upon request by contacting Danielle Wentz at (304)926-0499 ext. 1193.

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. 1222 or Roy.F.Kees@wv.gov.

Sincerely,

Roy F. Kees, P.E.
Engineer - NSR Permitting

Enclosures: Registration G70-A009B

West Virginia Department of Environmental Protection
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Class II General Permit
G70-A Registration to 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-A009B

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

William F. Durham
Director

Issued: March 30, 2016

This registration will supersede and replace G70-A009A

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
Lattitude Coordinatees:	-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:	Class II Administrative Update
Description of Change:	Removal of condensate stabilizer heater, flash separator heater, generator, two produced water tanks and NGL tank.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? Yes

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	☒
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
1S-11S	1E-11E	(11) GPU Berners	N/A	2014	1.0	MMBtu/hr	7.0
12S-19S	12E-19E	Condensate Tanks	26S	2015	210	BBl	6.0, 14.0
20S-25S	20E-25E	Prod. Water Tanks	26S	2015	210	BBl	6.0, 14.0
29S	29E	Flash Sep. Heaters	N/A	2015	1.0	MMBtu/hr	7.0
27S	27E	Cond. Truck Loading	N/A	2015	3,066,000	Gal/year	11.0, 14.0
28S	28E	Prod. Water Loading	N/A	2015	10,961,000	Gal/year	11.0
30S	30E	USA Compressor Engine Cummins 5161 G8.3 H302	NSCR	2014	118	Bhp	13.0

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
26S	26E	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, 29S	1E-11E, 29S	(11) GPU Burners & Flash Sep. Heater	Nitrogen Oxides	0.96	4.08
			Carbon Monoxide	0.84	3.48
12S-19S	12E-19E	(8) Condensate Tanks	Volatile Organic Compounds	1.20	5.24
			Total Hazardous Air pollutants	0.11	0.48
27S	27E	Cond. Tank Truck Loading	Volatile Organic Compounds	4.20	18.43
			Total Hazardous Air Pollutants	0.24	1.04
26S	26E	Enclosed Combustor	Nitrogen Oxides	2.76	12.08
			Carbon Monoxide	2.32	10.15
30S	30E	USA Comp. 118 HP Engine	Nitrogen Oxides	0.51	2.22
			Carbon Monoxide	1.05	4.61
			Volatile Organic Compounds	0.26	1.14
			Formaldehyde	0.02	0.09

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
27S	27E	Condensate Tank 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)
30S	2015	Yes	Yes (JJJJ Only)	Yes