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

December 31, 2015

CERTIFIED MAIL
91 7199 9991 7035 6693 6508

Evan Foster
3501 NW 63rd Street
Oklahoma City, OK 73116

RE: Approved Registration G70-A156A
Ascent Resources - Marcellus, LLC
Mary Miller
Facility ID No. 103-00104

Dear Mr. Foster:

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. 1258 or Caraline.F.Griffith@wv.gov.

Sincerely,

Caraline Griffith
Permit Engineer

Enclosures: Registration G70-A156A
c: Grant Morgan - ERM

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Class II General Permit G70-A Registration for Class II Administrative 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-A156A

Issued to:
Ascent Resources - Marcellus, LLC
Mary Miller
103-00104

William F. Durham
Director

Issued: December 31, 2015

This permit supersedes and replaces Permit Registration G70-A156.

Facility Location:	Wileyville, Wetzel County, West Virginia
Mailing Address:	301 NW 63rd Street, Suite 600, Oklahoma City, OK 73116
Facility Description:	Natural Gas Production Wellpad
NAICS Code:	211111
SIC Code:	1311
UTM Coordinates:	533.057 km Easting • 4,384.756 km Northing • Zone 17
Longitude Coordinates:	39.61490
Lattitude Coordinatees:	-80.6138.
Directions to Facility:	From Route 7 East out of New Martinsville towards Morgantown for 17 miles. Turn left onto Barker Run Road and continue for 1.2 miles, before taking a left onto Hoyt Ridge Road. Follow Hoyt Ridge Road for three miles. Well Site Mary Miller will be on the right.
Registration Type:	Class II Update
Description of Change:	Addition of one (1) Line Heater (S023) and one de minimis 100 bbl gas buster tank (S024).

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? Yes, Generator S022 Only, Certified

Subject to 40CFR63, Subpart ZZZZ? Yes, Engine S017 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
S001-S004	E001-E004	(4) GPU Burners	N/A	2015	1.5	MMBtu/hr	7.0
S005-S008	E005-E008	(4) Line Heaters	N/A	2015	1.5	MMBtu/hr	7.0
S009	E009	(1) Flash Separator Heater	N/A	2015	1.0	MMBtu/hr	7.0
S010	E010	(1) Condensate Stabilizer Heater	N/A	2015	0.75	MMBtu/hr	7.0
S011-S013	E011-E013	(3) Condensate Tanks	S019	2015	400	BBl	6.0, 14.0
S014-S016	E014-E016	(3) Produced Water Tanks	S019	2015	400	BBl	6.0, 14.0
S017	E017	Flash Gas Compressor Caterpillar G3306 TA (1501)	NSCR	2015	203	Hp	10.0, 15.0
S018	E018	Flash Gas Compressor Caterpillar G3306TA (1940)	NSCR	2015	203	Hp	10.0
S019	E019	Enclosed Combustion Device	N/A	2015	18.42	MMBtu/hr	14.0
S020	E020	Cond. Truck Loading	S019	2015	195	BBl/day	11.0, 14.0
S021	E021	Prod. Water Loading	N/A	2015	195	BBl/day	11.0, 14.0
S022	E022	Natural Gas Generator HI power HRGM 30 T6	N/A	2015	47	Bhp	10.0, 13.0
S023	E023	Line Heater	N/A	2016	1.50	mmBTU/hr	7.0
S024	E024	Gas Buster Tank	N/A	2016	100	bbl	6.0, 14.0

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
S019	E019	Enclosed Combustion Device National Oilwell Varco MEVC200	2015	18.42	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
047-103-03070		
047-103-03071		
047-103-03072		
047-103-03073		

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
S001-S004	E001-E004	(4) GPU Burners	Nitrogen Oxides	0.48	2.04
			Carbon Monoxide	0.40	1.72
S005-S008 & S023	E005-E008 & E023	(5) Line Heaters	Nitrogen Oxides	0.60	2.55
			Carbon Monoxide	0.50	2.15
S009	E009	Flash Separator	Nitrogen Oxides	0.08	0.34
			Carbon Monoxide	0.07	0.29
S010	E010	Condensate Stabilizer	Nitrogen Oxides	0.06	0.26
			Carbon Monoxide	0.05	0.21
S011-S013	E019	(3) Condensate Tanks	Volatile Organic Compounds	1.01	4.43
			Total Hazardous Air pollutants	0.03	0.11
S017	E017	Compressor	Nitrogen Oxides	0.89	3.90
			Carbon Monoxide	1.78	7.80
			Volatile Organic Compounds	0.05	0.24
			Formaldehyde	0.11	0.49
S018	E018	Compressor	Nitrogen Oxides	1.49	6.52
			Carbon Monoxide	0.16	0.71
			Volatile Organic Compounds	0.05	0.22
			Formaldehyde	0.07	0.29
S019	E019	Enclosed Combustor	Nitrogen Oxides	1.43	6.28
			Carbon Monoxide	1.21	5.28
S020	E019	Cond. Tank Truck Loading	Volatile Organic Compounds	0.03	0.11
			Total Hazardous Air Pollutants	--	--
S022	E022	Generator	Nitrogen Oxides	0.37	1.63
			Carbon Monoxide	0.61	2.68
			Volatile Organic Compounds	0.37	1.63
			Formaldehyde	0.03	0.12
S024	E024	Gas Buster Tank	Volatile Organic Compounds	17.28	3.15
			Total Hazardous Air pollutants	4.26	0.78

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
S020	E019	Condensate Tank Truck Loading	1,916,000 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)
S017	August 8, 2005	No	Yes	Yes
S018	January 21, 2008	No	No	Yes
S022	2014	Yes, Certified	Yes, JJJJ Only	No