



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 27, 2015

CERTIFIED MAIL
91 7199 9991 7035 6611 2551

Shane Dowell
3570 Shields Hill Road
Cairo, WV 26337

RE: Approved Registration G70-A149
Jay-Bee oil & Gas, Inc.
Maddie Mae Wellpad
Facility ID No. 095-00060

Dear Mr. Dowell:

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-A149

*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-A149

Issued to:
Jay-Bee Oil & Gas, Inc.
Maddie Mae Well Pad
095-00060

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

*William F. Durham
Director*

Issued: March 27, 2015

Facility Location: Middlebourne, Tyler County, West Virginia
Mailing Address: 3570 Shields Hill Road, Cairo, WV 26337
Facility Description: Natural Gas Production
NAICS Code: 211111
SIC Code: 1311
UTM Coordinates: 519.942 km Easting • 4,366.642 km Northing • Zone 17
Longitude Coordinates: -80.768234
Latitude Coordinates: 39.449105
Directions to Facility: From Middlebourne, proceed southeast on Route 18 (main Street) out of town. Proceed approximately 5.8 miles to the junction with C/R 1/3 (Indian Creek Road) on the left. From the intersection, take Indian Creek Road east for 1.6 miles. Turn right onto lease road, follow to well pad entrance.
Registration Type: Construction
Description of Change: New construction of natural gas facility.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? Yes, Non-Certified

Subject to 40CFR63, Subpart ZZZZ? Subpart JJJJ Req's 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	Reserved	<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
HTR-1	1e	Gas Prod. Unit	--	TBD	1.5	mmBtu/hr	7
HTR-2	2e	Gas Prod. Unit	--	TBD	1.5	mmBtu/hr	7
HTR-3	3e	Gas Prod. Unit	--	TBD	1.5	mmBtu/hr	7
T01	4e	Cond. Tank	--	TBD	210	Bbl	6 & 14
T02	4e	Cond. Tank	--	TBD	210	Bbl	6 & 14
T03	4e	Cond. Tank	--	TBD	210	Bbl	6 & 14
T04	4e	P. Water Tank	--	TBD	210	Bbl	6 & 14
T05	4e	P. Water Tank	--	TBD	210	Bbl	6 & 14
T06	4e	P. Water Tank	--	TBD	210	Bbl	6 & 14
TL-1	5e	Cond. Loading	N/A	TBD	1,260,000	Gal/year	11
VRU-1	7e	Arrow VRC2 Engine	--	TBD	84	Hp	10, 13, 15
TEG-1	8e	Thermoelectric Generator	N/A	TBD	4.4	KW/hr	7
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	91% NO _x , 86% CO	Miratech VXC-1408-04-HSG	2015	430	Scfm	10	
Emission Reduction Systems						Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?						Yes	14
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
047-095-02137		
047-095-02138		
047-095-02139		

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
HTR-1 – HTR-3	1e-3e	(3) 1.5mmBtu/hr GPU Heaters	Nitrogen Oxides	0.45	1.98
			Carbon Monoxide	0.39	1.65
T01-T06	4e	(6) 210 BBL Condensate & Water Tanks	Volatile Organic Compounds	6.76	42.50
			Total HAPs	0.22	1.38
TL-1	5e	Condensate Truck Loading	Volatile Organic Compounds	12.42	1.86
CE-1	7e	Arrow VRC2 Compressor 84 hp	Nitrogen Oxides	0.19	0.81
			Carbon Monoxide	0.37	1.62
			Volatile Organic Compounds	0.05	0.21
			Formaldehyde	0.02	0.07

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
TL-1	5e	Condensate Truck Loading	1,260,000 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)
CE-1	3/19/12	Yes	Yes	Yes