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 3, 2015

CERTIFIED MAIL
91 7199 9991 7035 6613 6151

Shane Dowell
3570 Shields Hill Road
Cairo, WV 26337

RE: Approved Registration G70-A179
Jay-Bee oil & Gas, Inc.
Sleepy Wellpad
Facility ID No. 095-00063

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-A179

West Virginia Department of Environmental Protection
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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-A179

Issued to:
Jay-Bee Oil & Gas, Inc.
Sleepy Well Pad
095-00063

William F. Durham
Director

Issued: December 3, 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:	522.472 km Easting • 4,369.580 km Northing • Zone 17
Longitude Coordinates:	-80.738682
Lattitude Coordinatees:	39.475506
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 4.6 miles. Turn left onto 13/1 (Walnut Fork) follow north for 1.7 miles to well pad entrance on left.
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	☒
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
GPU-1	1E	Gas Prod. Unit	--	TBD	1.5	mmBtu/hr	7
GPU-2	2E	Gas Prod. Unit	--	TBD	1.5	mmBtu/hr	7
GPU-3	3E	Gas Prod. Unit	--	TBD	1.5	mmBtu/hr	7
T01	4E/9E	Cond. Tank	--	TBD	210	Bbl	6 & 14
T02	4E/9E	Cond. Tank	--	TBD	210	Bbl	6 & 14
T03	4E/9E	Cond. Tank	--	TBD	210	Bbl	6 & 14
T04	4E/9E	P. Water Tank	--	TBD	210	Bbl	6 & 14
T05	4E/9E	P. Water Tank	--	TBD	210	Bbl	6 & 14
T06	4E/9E	P. Water Tank	--	TBD	210	Bbl	6 & 14
TL-1	5E	Cond. Loading	N/A	TBD	1,260,000	Gal/year	11
TL-2	6E	P.W. Loading	N/A	TBD	2,670,000	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% NOx, 86% CO	Miratech VXC-1408-04-HSG	TBD	430	Scfm	10
9E	98%	HyBon Enclosed Combustor	TBD	10	mmBtu/hr	14

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
047-095-02144		
047-095-02145		
047-095-02146		

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
GPU-1 – GPU-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	6.73	28.80
			Total HAPs	0.23	0.98
TL-1	5E	Condensate Truck Loading	Volatile Organic Compounds	12.42	1.86
			Total HAPs	0.85	0.13
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
EC-1	9E	Hybon Enclosed Combustor	Nitrogen Oxides	0.27	0.05
			Carbon Monoxide	1.48	0.30
			Volatile Organic Compounds	2.69	0.54
			Total HAPs	0.09	0.02

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