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west virginia department of environmental protection

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Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone 304/926-0475

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

March 3, 2016

CERTIFIED MAIL  
91 7199 9991 7035 6613 6298

Shane Dowell  
3570 Shields Hill Road  
Cairo, WV 26337

RE: Approved Registration G70-A053A  
Jay-Bee Oil & Gas, Inc.  
RPT-8 Wellpad  
Facility ID No. 095-00040

Dear Mr. Dowell:

The Director has determined that the submitted Registration Application and proposed modification 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](http://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](mailto:Roy.F.Kees@wv.gov).

Sincerely,

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

Enclosures: Registration G70-A053A

*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-A053A**

Issued to:  
**Jay-Bee Oil & Gas, Inc.**  
RPT-8  
095-00040

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

*William F. Durham  
Director*

*Issued: March 3, 2016*

Facility Location: Alma, 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: 518.399 km Easting • 4,370.419 km Northing • Zone 17  
Longitude Coordinates: -80.786055  
Latitude Coordinates: 39.483171  
Directions to Facility: From intersection of WV 18 and CR 13 (Indian Creek Road), follow CR 13 east for 0.9 miles to CR 40 (Big Run Road). Turn left onto CR 40 heading north for 2.0 miles. Entrance to the production facilities is on the left. Follow 3.0 miles to the end of lease road.  
Registration Type: Modification  
Description of Change: Addition of an enclosed combustor to be used during VRU downtime and the addition of a thermos-electric generator.

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.*

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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 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 checked="" 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 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	1S	Gas Prod. Unit	--	2014	1.5	mmBtu/hr	7
GPU-2	2S	Gas Prod. Unit	--	2014	1.5	mmBtu/hr	7
GPU-3	3S	Gas Prod. Unit	--	2014	1.5	mmBtu/hr	7
TLU1	4S	Cond. Loading	--	2016	609,000	Gal/year	11
VRU-1	5S	Cummins G5.9 Engine	--	2014	84	Hp	10, 13, 15
TLU2	6S	P.W. Loading	--	2016	600,600	Gal/year	11
TNK1	5S/7S	PW Tank	VRU1/EC1	2016	210	Bbl	6 & 14
TNK2	5S/7S	Cond. Tank	VRU1/EC1	2016	210	Bbl	6 & 14
TNK3	5S/7S	PW Tank	VRU1/EC1	2016	210	Bbl	6 & 14
TNK4	5S/7S	Cond. Tank	VRU1/EC1	2016	210	Bbl	6 & 14
TNK5	5S/7S	PW Tank	VRU1/EC1	2016	210	Bbl	6 & 14
TNK6	5S/7S	Cond. Tank	VRU1/EC1	2016	210	Bbl	6 & 14
EC-1	7S	Enc. Comb.	--	2016	10	mmBtu/hr	6 & 14
TEG-1	8S	T-E Gen.	--	2016	4.4	KW/HR	7
<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	
EC-1	98	Hybon EDI CH10.0	2016	10	mmBtu/hr	14	
<b>Emission Reduction Systems</b>						Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?							Yes
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
047-095-02085		
047-095-02084		
047-095-02083		

### 3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
1S-3S	GPU1-GPU3	(4) 1.5mmBtu/hr GPU Heaters	Nitrogen Oxides	0.45	1.97
			Carbon Monoxide	0.38	1.66
4S	TLU1	Condensate Truck Loading	Volatile Organic Compounds	27.80	1.01
			Total HAPs	1.37	0.05
5S	VRU1	Cummins G5.9 Compressor Engine 84 hp	Nitrogen Oxides	0.52	2.27
			Carbon Monoxide	0.89	3.89
			Volatile Organic Compounds	0.02	0.09
			Formaldehyde	0.01	0.06
5S	TNK1-TNK6	(6) 210 BBL Condensate Tanks & VRU (95% Operation)	Volatile Organic Compounds	4.63	20.28
			Total HAPs	0.42	1.84
7S	TNK1-TNK6	(6) 210 BBL Condensate Tanks & Combustor (5% Operation)	Volatile Organic Compounds	1.85	8.10
			Total HAPs	0.17	0.74

### 4.0 Throughput Limitations

Throughput limits are on a 12-month rolling total basis.

Emission ID	Unit	Emission Point ID	Emission Unit Description	Annual Throughput Limit
4S		TLU1	Condensate Truck Loading	609,000 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)
5S	3/19/2012	Yes	Yes	Yes