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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 • FAX: (304) 926-0479

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

December 01, 2015

CERTIFIED MAIL  
91 7199 9991 7035 6665 8356

James McKinney  
300 Capitol Street, Suite 200  
Charleston, WV 25301

RE: Enervest Operating, LLC  
WPHC-214 Station  
Permit Application G70-A181  
Plant ID No. 109-00189

Dear Mr. McKinney:

Your application for a permit as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed permit G70-A181 is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

The source is not subject to 45CSR30.

In accordance with 45CSR22 - Air Quality Management Fee Program, the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first obtaining and having in current effect a Certificate to Operate (CTO). Such Certificate to Operate (CTO) shall be renewed annually, shall be maintained on the premises for which the Certificate has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

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 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.

Should you have any questions or comments, please contact me at (304) 926-0499, extension 1212.

Sincerely,

Thornton E. Martin Jr.  
Permit Engineer

*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-A181**

**Issued to:**

**Enervest Operating, LLC  
WPHC-214 Station  
109-00189**

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

*William F. Durham  
Director*

*Issued: December 01, 2015*

Facility Location: near Ravenscliff, Wyoming County, West Virginia  
Mailing Address: 300 Capitol Street, Suite 200, Charleston, WV 25301  
Facility Description: Natural gas production facility  
NAICS Code: 211111  
SIC Code: 1311  
UTM Coordinates: 417.6245 km Easting • 4,567.9798 km Northing • Zone 17  
Longitude Coordinates: -81.49028  
Latitude Coordinates: 37.73248  
Directions to Facility: *From Bolt, WV: From WV-99 W, turn left onto Bolt Road / Raven Cliff Road. Travel 1.3 miles where the road becomes Farmers Lane and then immediately Through Fork Road. After 4.1 miles, Through Fork Road becomes Ravenscliff Road. Travel 1.9 miles and turn right onto Glen Fork Road. After 0.6 miles, take a sharp right on Co. Hwy 1/1. A dirt access road off of Youth Camp Road is used to access the remote facility.*  
Registration Type: Construction  
Description of Change: New construction of a natural gas production facility.

Subject to 40CFR60, Subpart OOOO? No

Subject to 40CFR60, Subpart JJJJ? Yes, Engine certified to meet 40 CFR Part 1054

Subject to 40CFR63, Subpart ZZZZ? Yes, Area source of HAP's

Subject to 40CFR63, Subpart HH? No TEG Dehydration Unit

*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 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 type="checkbox"/>
Section 8	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)	<input 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 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
S01	E01	Caterpillar G3306NA, Mfg. 1990	N/A	2015	145	bhp	Section 10 Section 15
S02	E02	Kubota DG972, Mfg. 2014	N/A	2015	24	bhp	Section 10 Section 13
S03	E03	Arrow L-795, Mfg. 2003	N/A	Prior to 2012 Acquisition	65	bhp	Section 10 Section 15
S04	E04	Produced Water Tank	N/A	Pre-August 2011	40	bbl	Section 6
S05	E05	Produced Water Tank	N/A	Pre-August 2011	210	bbl	Section 6
S06	E06	Produced Water Tank	N/A	Pre-August 2011	50	bbl	Section 6
S07	E07	Produced Water Tank	N/A	Pre-August 2011	210	bbl	Section 6
S08	E08	Produced Water Tank	N/A	Pre-August 2011	50	bbl	Section 6
S09	E09	Tank Truck Loading Operations	N/A	Pre-August 2011	560	bbl / day	Section 11
<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	
Emission Reduction Systems						Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?						No	N/A
Was a low pressure tower(s) used to determine emission limits?						No	N/A

**2.0 Oil and Natural Gas Wells Table**

API number	API number	API number
47-109-02900-00		
47-109-02901-00		

**3.0 Emission Limitations**

**Facility-Wide Aggregate Annual (ton/yr) Criteria Pollutant/GHG PTE**

Source	CO	NO <sub>x</sub>	PM <sub>2.5</sub> <sup>(1)</sup>	SO <sub>2</sub>	VOCs	HAPs	CO <sub>2</sub> e
Caterpillar G3306NA (S01)	1.960	33.760	0.050	0.003	0.220	0.330	689.66
Kubota DG972 (S02)	0.300	3.890	0.010	<0.001	0.110	0.050	127.70
Arrow L-795 (S03)	1.210	9.930	0.010	0.002	0.380	0.180	419.23
Produced Water Tank 50 bbl (S08)	--	--	--	--	0.170	--	--
Produced Water Tank 50 bbl (S06)	--	--	--	--	0.170	--	--
Produced Water Tank 40 bbl (S05)	--	--	--	--	0.140	--	--
Produced Water Tank 210 bbl (S04)	--	--	--	--	0.610	--	--
Produced Water Tank 210 bbl (S07)	--	--	--	--	0.620	--	--
Equipment Leaks	--	--	--	--	0.050	0.002	6.34
Fugitives from Hauling	--	--	0.550	--	--	--	--
Truck Loading (S09)	--	--	--	--	0.020	<0.001	0.01
<b>Facility-Wide Totals →</b>	<b>3.470</b>	<b>47.580</b>	<b>0.620</b>	<b>0.006</b>	<b>2.490</b>	<b>0.563</b>	<b>1,242.94</b>

(1) Conservatively, all particulate matter emissions are assumed to be less than 2.5 microns. Includes condensables.

**Facility-Wide Aggregate Annual (ton/yr) Speciated HAP PTE Summary**

Pollutant	ton/yr
Formaldehyde	0.54400
Benzene	0.01100
Toluene	0.00600
Ethylbenzene	<0.001
Xylene	<0.001
<b>Total HAPs</b>	<b>0.56300</b>

#### 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
S01	E01	Caterpillar G3306NA	9.4 MMft <sup>3</sup> /yr
S02	E02	Kubota DG972	1.9 MMft <sup>3</sup> /yr
S03	E03	Arrow L-795	6.2 MMft <sup>3</sup> /yr
S04	E04	Produced Water Tank	23,360 gal/yr
S05	E05	Produced Water Tank	239,400 gal/yr
S06	E06	Produced Water Tank	30,240 gal/yr
S07	E07	Produced Water Tank	453,600 gal/yr
S08	E08	Produced Water Tank	30,240 gal/yr
S09	E09	Truck Loading	777,840 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)
S01	1990	No	Yes	No
S02	2014	Yes	No	No
S03	2003	No	Yes	No